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March 16, 2015

Mr. Kevin Mayer
Environmental Protection Agency, Region 9
Superfund Division
75 Hawthorne Street, SFD-8-2
San Francisco, California 94105

Re: **2014 Baseline Monitoring and Aquifer Compliance Report**
Montrose Superfund Site, Los Angeles, California

Dear Mr. Mayer:

On behalf of Montrose Chemical Corporation of California (Montrose), AECOM, Inc. submits the 2014 Baseline Monitoring and Aquifer Compliance Report (MACR) for the Montrose Superfund Site in Los Angeles, California. This report documents the baseline sampling event establishing groundwater conditions prior to the start of the Torrance Groundwater Remediation System (TGRS) in accordance with the USEPA approved Monitoring and Aquifer Compliance Plan. This event was coordinated with the Del Amo Superfund Site, the International Light Metals site, and Boeing C-6 Facility.

If you have any questions regarding or require additional copies of this report, please contact me at (562) 213-4150 or Mike Palmer of *de maximis* at (619) 546-8377.

Sincerely,

AECOM

Mark Riley
Senior Program Director

cc: Joe Kelly – Montrose Chemical Corporation
Kelly Richardson – Latham & Watkins
Mike Palmer – *de maximis*
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2014 BASELINE MONITORING AND AQUIFER COMPLIANCE REPORT
MONTROSE SUPERFUND SITE
20201 South Normandie Avenue
Los Angeles, California

March 12, 2015

Prepared For: **Montrose Chemical Corporation of California**
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ACRONYMS AND ABBREVIATIONS

Abbreviation	Term
bgs	Below ground surface
°C	Centigrade
Calscience	Eurofins Calscience Environmental Laboratory, Inc.
CD	Consent Decree
CF	Chloroform
DCA	Dichloroethane
DCB	Dichorobenzene
DCE	Dichloroethene
DDT	Dichlorodiphenyltrichloroethane
DNAPL	Dense Non-Aqueous Phase Liquid
DO	Dissolved Oxygen
EDD	Electronic Data Deliverable
GAC	Granular Activated Carbon
Gage	Gage Aquifer
gpm	Gallons per minute
ILM	International Light Metals
ISGS	In-Situ Groundwater Standards
JCI	Jones Chemical Incorporated
Lynwood	Lynwood Aquifer
MS/MSD	Matrix Spike/Matrix Spike Duplicate
MACP	Monitoring and Aquifer Compliance Plan
MACR	Monitoring and Aquifer Compliance Report
MBFB	Middle Bellflower B Sand
MBFC	Middle Bellflower C Sand
mg/L	Milligrams per Liter
ml/min	Milliliters per Minute
Montrose	Montrose Chemical Corporation of California
mS/cm	MilliSiemens per Centimeter
MSL	Mean Sea Level
mV	Millivolts
NAVD	North American Vertical Datum
NPDES	National Pollutant Discharge Elimination System
NGVD	National Geodetic Vertical Datum
NPL	National Priorities List
NTUs	Nephelometric Turbidity Units
ORP	Oxygen Reduction Potential
PARCC	Precision, Accuracy, Representativeness, Completeness, Comparability
pCBSA	Para-Chlorobenzene Sulfonic Acid
PCE	Tetrachloroethene
QAO	Quality Assurance Objectives

ACRONYMS AND ABBREVIATIONS

Abbreviation	Term
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
%R	Percent Recovery
ROD	Record of Decision
RPD	Relative Percent Difference
SDG	Sample Delivery Group
Site	Montrose Superfund Site
TCE	Trichloroethene
Test America	Test America Laboratories, Inc.
TGRS	Torrance Groundwater Remediation System
TI	Technical Impracticability
µg/L	Micrograms per liter
USEPA	United States Environmental Protection Agency
UBF	Upper Bellflower Aquitard
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

This report documents the baseline sampling event establishing groundwater conditions prior to the start of the Torrance Groundwater Remediation System in accordance with the USEPA approved Monitoring and Aquifer Compliance Plan. This event was coordinated with the Del Amo Superfund Site, the International Light Metals site, and Boeing C-6 Facility.

Although concentrations have increased or decreased in a small number of wells, the overall extent of MCB and pCBSA in the UBF, MBFC, Gage, and Lynwood Aquifers has not appreciably changed since the prior groundwater monitoring events in 2006, 2009, and 2012.

The horizontal hydraulic gradients have not increased in any of aquifer units since the prior comprehensive monitoring event in 2012. The horizontal hydraulic gradients remain relatively small between 0.0001 and 0.001 ft/ft in all aquifer units. Similarly, the vertical hydraulic gradients between aquifer units have not increased since the prior monitoring event. The vertical hydraulic gradients between the UBF/MBFC and MBFC/Gage remain relatively low between 0.004 and 0.07 ft/ft (i.e., less than 2 feet vertical difference between aquifer units). Consistent with prior monitoring events, the vertical hydraulic gradient between the Gage and Lynwood Aquifers remain approximately 0.14 to 0.20 ft/ft with 11 feet vertical difference between aquifer units.

1 INTRODUCTION

On behalf of Montrose Chemical Corporation of California (Montrose), this Monitoring and Aquifer Compliance Report (MACR) addresses groundwater monitoring activities that were conducted during September 2014 at the Montrose Superfund Site (Site) in Los Angeles, California (**Figure 1**). This MACR is the baseline sampling event is to establish groundwater conditions prior to the start of the Torrance Groundwater Remediation System (TGRS) in accordance with the United States Environmental Protection Agency (USEPA) approved Monitoring and Aquifer Compliance Plan (MACP; AECOM 2014b and USEPA 2014a). This event was coordinated with the Del Amo Superfund, the International Light Metals (ILM), and Boeing C-6 Sites.

A total of 339 wells were gauged during this event in September 2014. Of the 339 wells, 152 wells were gauged by AECOM on behalf of Montrose. The remaining wells were gauged by representatives of the other sites. Between September 3 and 30, 2014, a total of 317 wells were purged and sampled during this event. Of the 317 wells, 83 wells were purged and sampled by AECOM on behalf of Montrose. The remaining wells were purged and sampled by representatives for the other sites. Split groundwater samples were provided from 22 wells to Montrose by the other sites during this event. The report summarizes the methods and procedures utilized during the sampling activities in addition to the analytical results.

1.1 Background

Montrose manufactured technical grade dichlorodiphenyltrichloroethane (DDT) at this location from 1947 to 1982, and the USEPA proposed the Site for the Superfund National Priorities List (NPL) in 1984. Remedial investigations conducted at the Montrose Site have documented chemical impacts to groundwater including chlorobenzene, a volatile organic compound (VOC) and raw material used in the DDT manufacturing process (USEPA, 1998).

The Montrose property is located in an industrialized area within the City of Los Angeles (Harbor Gateway) and is surrounded by other environmental sites including:

- The former Boeing C-6 Facility is located north of the Montrose Property, and the groundwater beneath that facility is impacted with chlorinated VOCs, primarily trichloroethene (TCE).
- The PACCAR and American Polystyrene Sites are located northeast of the Montrose Property, and the groundwater beneath those facilities is impacted with chlorinated VOCs, primarily TCE.
- The former ILM facility is located northwest of the Montrose Property, and although not part of the Dual Site Groundwater Operable Unit, the groundwater beneath that facility is impacted with chlorinated VOCs, primarily TCE.
- The Del Amo Superfund Site is located east of the Montrose Property, and the groundwater beneath that site is impacted with hydrocarbons, primarily benzene and tert-butyl-alcohol (TBA).
- The Jones Chemical, Inc. (JCI) facility is located south of the Montrose Property, and the groundwater beneath that facility is impacted with chlorinated VOCs, primarily tetrachloroethene (PCE) and TCE.

A site vicinity map showing the location of these facilities relative to the Montrose property is provided as **Figure 2**. In 1999, EPA issued a Record of Decision (ROD) for the Dual Site Groundwater Operable Unit encompassing both the Montrose and Del Amo Superfund Sites (USEPA, 1999). The groundwater remedy selected by EPA involved groundwater extraction, treatment, and re-injection (i.e., pump and treat). Following issuance of the 1999 ROD, EPA issued a Unilateral Administrative Order ("UAO") in 2003 ordering Montrose to complete the remedial design of the groundwater treatment system. A pilot extraction and aquifer test was completed in 2008. EPA issued a second UAO in 2008 for further remedial design work. In August 2012, the Court entered the Construction Partial Consent Decree, which obligated Montrose to construct the groundwater treatment system as specified in the 1999 ROD. EPA approved the Remedial Design Report in September 2012 (USEPA, 2012). Construction began in March 2013 and finished in December 2014.

Due to the presence of dense non-aqueous phase liquid (DNAPL) at the Montrose property, EPA established a Technical Impracticability (TI) Waiver Zone surrounding the Montrose property. The groundwater remedy requires hydraulic containment of dissolved chlorobenzene within the TI Waiver Zone and simultaneous chlorobenzene plume reduction to In-Situ Groundwater Standards (ISGS) outside of the TI Waiver Zone. Construction of the groundwater remedy has been completed and the operation of the system is pending USEPA approval to begin. A Partial Consent Decree (CD) for operation of the groundwater remedy is currently under negotiation with EPA. The MACP was prepared as required under the Partial CD and in accordance with the monitoring requirements established in the ROD.

1.2 Site Hydrology

The hydrologic units associated with the Dual Site Operable Unit are briefly summarized below (from shallowest to deepest):

<u>Upper Bellflower Aquitard (UBF)/Water Table:</u> This water-bearing unit typically occurs from approximately 60 to 105 feet below ground surface (bgs) at the Site. The unit is characterized by interbedded layers of fine-grained sand and silt/clay. The lower portion of the UBF, from approximately 95 to 105 feet bgs, is predominantly composed of silty sand.

The UBF is the uppermost water-bearing unit and is also called the Water Table Unit. The UBF is also hydraulically consistent with the Middle Bellflower B Sand (MBFB) as defined at the ILM, Boeing and Del Amo Superfund Sites.

<u>Middle Bellflower C Sand (MBFC):</u> The MBFC directly underlies the UBF and typically occurs from approximately 105 to 130 feet bgs. The MBFC is predominantly composed of fine-grained sand with increasing grain size towards the bottom of the unit. The MBFC is a confined aquifer with water levels only slightly deeper than in the UBF.

<u>Gage Aquifer (Gage):</u> The Gage is the aquifer unit underlying the MBFC and typically occurs from approximately 140 to 200 feet bgs at the Montrose property. The Lower Bellflower Aquitard separates the two aquifer units. The Gage is predominantly composed of fine-grained sand with decreasing grain size towards the bottom of the unit and is relatively homogeneous at the Site. The Gage is a confined aquifer unit with water levels typically 1 to 2 feet deeper than in the MBFC.

Lynwood Aquifer (Lynwood): The Lynwood is the aquifer unit underlying the Gage and typically occurs beginning at a depth of approximately 230 feet bgs. The Gage-Lynwood Aquitard separates the two aquifer units. The upper portion of the Lynwood is predominantly composed of fine to medium-grained sand, while underlying portions are predominantly composed of well-graded sands, gravelly sands, and sandy gravels. The Lynwood is a confined aquifer with water levels approximately 10 feet deeper than in the Gage.

1.3 Description of Torrance Groundwater Remediation System

Pursuant to the requirements of the ROD, the groundwater remedy for the Dual Site Operable Unit involves pumping, treating, and re-injecting as close as feasible to 700 gallons per minute (gpm) of groundwater from three water-bearing zones Information on the extraction wells is discussed below

- Extraction from three Water Table extraction wells including UBA-EW-1, UBA-EW-3, and MBFB-EW-1. Montrose submitted a modeling memorandum to EPA on June 18, 2014 proposing to add well UBA-EW-3 and eliminate UBA-EW-2 from the remedy (AECOM, 2014a). EPA approved this well field in a letter dated December 17, 2014 (USEPA 2014b);
- Extraction from five MBFC extraction wells including BF-EW-1 through BF-EW-5. Montrose proposed to eliminate BF-EW-6 in the June 18, 2014 modeling memorandum; and
- Extraction from four Gage Aquifer extraction wells including G-EW-1 through G-EW-4. A fifth Gage Extraction well, G-EW-5, was installed but found to exhibit unusually low yield and high drawdown. Consequently, Montrose proposed to eliminate well G-EW-5 from the remedy in a memorandum dated April 21, 2014 (SSPA, 2014).

Groundwater extracted from the above-referenced 12 wells will be conveyed through underground pipelines to the Montrose Property for treatment. At the Montrose Property, the groundwater will be treated using a combination of advanced oxidation (HiPOx™), air stripping, and carbon adsorption to remove dissolved VOCs and pCBSA as needed to comply with the re-injection and in situ groundwater standards as established in the ROD. The treated groundwater will be pumped through additional conveyance pipelines to 7 Gage Aquifer injection wells located along the western and eastern flanks of the chlorobenzene plume including G-IW-1 through G-IW-5, G-11 (in lieu of G-IW-6), and G-IW-7. A map depicting the location of the groundwater extraction/injection well network and associated conveyance pipelines is provided as **Figure 3**. An estimated 30 to 50 years of TGRS operations will be required in order to reduce chlorobenzene concentrations to below the ISGS level in all water-bearing units outside the TI Waiver Zone extent.

1.4 Description of Monitoring Well Network

There are 129 Montrose-owned monitoring wells located at and surrounding the Montrose Property including:

- 43 Water Table monitoring wells including 10 DNAPL monitoring wells, 2 DNAPL injection test wells, and 1 DNAPL observation well
- 41 MBFC monitoring wells including two Lower Bellflower Aquitard monitoring wells

- 38 Gage Aquifer monitoring wells including two Lower Gage monitoring wells
- 7 Lynwood Aquifer monitoring wells

Extensive monitoring well networks are additionally present at the Del Amo Superfund Site, Boeing C-6 Facility, and ILM Site. A smaller number of groundwater monitoring wells is present at the JCI, PACCAR, and American Polystyrene sites, although routine groundwater monitoring is not currently conducted at those facilities. Additionally, the remedial investigations at certain sites, including the PACCAR and American Polystyrene sites are not yet complete. The combined monitoring well network from all Responsible Parties and surrounding facilities is extensive and provides a comprehensive set of data for characterizing groundwater impacts and monitoring remedy progress at the Dual Site Groundwater Operable Unit.

The Boeing and ILM sites are located north and northwest of the Montrose Property respectively. The Del Amo Site is located east of the Montrose Property. The dissolved TCE and benzene plumes overlap with the chlorobenzene plumes in some areas, and consequently, some of the monitoring wells serve to delineate more than one plume. For example, Boeing samples wells that define the chlorobenzene plume extent north of the Montrose Property including CMW001 and CMW002. Similarly, ILM samples wells that define the northwestern extent of the chlorobenzene plume including MW-3, MW-8, BF-1, and G-20. Shell samples wells that define the eastern extent of the chlorobenzene plume including PZL0025, SWL0058, and G-17.

Boeing currently conducts semi-annual groundwater sampling. During September 2014, Boeing sampled 68 monitoring wells and is expected to sample 48 monitoring wells during March 2015. ILM conducts annual groundwater sampling. During September 2014, ILM sampled 54 monitoring wells, including 12 wells owned by Montrose. Shell for the Del Amo Superfund Site sampled a total of 91 monitoring wells, including seven wells owned by Montrose, as part of its baseline monitoring event to be conducted under a separate Partial CD. Routine sampling of groundwater for the PACCAR and American Polystyrene facilities will be addressed by those responsible parties. The combined monitoring well network for all the sites is more than 330 wells and serves to provide a comprehensive evaluation of groundwater impacts associated with the Dual Site Operable Unit.

1.5 Monitoring Objectives

The overall objective of the monitoring program is to collect reliable and sufficient groundwater data for monitoring remedy performance and demonstrating compliance with the objectives established in the ROD (USEPA, 1999). The ROD established a series of monitoring program objectives specific to hydraulic containment, plume reduction, and pCBSA monitoring as detailed in the MACP.

2 FIELD AND ANALYTICAL METHODS

Groundwater gauging and sampling activities were performed between September 3 and 30, 2014. Groundwater levels were gauged from a total of 339 wells during the 2014 monitoring event. A total of 317 wells were purged and sampled utilizing low flow purging methods. The field practices and procedures utilized for this groundwater monitoring event were consistent with the MACP. A brief description of the groundwater gauging, sampling, and analyses is provided below.

2.1 Groundwater Elevations

Between September 2 and 4, 2014, groundwater levels were collected from a total of 339 wells, with the exception of a few wells that were gauged later in September due to limited access. The number of wells gauged by unit is described below:

- 151 UBF wells, which 46 Montrose wells, 45 Del Amo Superfund monitoring wells, 38 Boeing monitoring wells, and 22 ILM monitoring wells
- 108 MBFC wells, including 51 Montrose wells, 19 Del Amo Superfund monitoring wells, 28 Boeing monitoring wells, and 10 ILM monitoring wells
- 73 Gage Aquifer wells, which includes 48 Montrose wells, 10 Del Amo Superfund monitoring wells, 6 Boeing monitoring wells, and 9 ILM monitoring wells
- 7 Lynwood Aquifer wells

Groundwater levels were gauged using a Solinst Model 102 electronic water level meter. The depth to groundwater was measured from the surveyed top of casing. Groundwater elevations were determined by subtracting the depth to water from the top of casing elevation. Groundwater levels and elevations are provided in Table 1 and are based on the National Geodetic Vertical Datum (NGVD) 29. Groundwater elevation results for each water-bearing unit are discussed in Section 3.0.

All 5 water level meters utilized by representatives of Montrose, Del Amo Superfund Site, ILM, and Boeing were checked prior to the start of gauging on September 2, 2014. All 5 water level meters utilized for the gauging activities were within 0.05 feet of each other (specifically, 4 water level meters measured within 0.01 feet of each other). No corrections were made to the water level measurements collected on September 2, 2014. TGRS extraction wells were not operating within 48-hours of the gauging event, however, seven Boeing extraction wells (EWB003, MW0005, WCC-07S, EWC003, EWC005, EWG001 and EWG002) were operating.

Groundwater elevation gauging results collected by others are mapped in this report, but are not otherwise tabulated or discussed. The surveyed top of casing elevations for the wells owned by Boeing and ILM are based on the North American Vertical Datum (NAVD) 88. The difference in the two survey datums is approximately 2.45 feet. Consequently, the groundwater elevations reported for the Boeing and ILM wells was corrected by subtracting 2.45 feet. The elevations shown in Table 1 and the figures are the corrected values for NGVD 29.

2.2 Groundwater Sampling Methods

In contrast to previous groundwater monitoring events (with exception of the Pre-Baseline event), which used a 3 purge volume or macro purge approach, groundwater samples were collected using low flow

sampling methods per the MACP. Low flow sampling methods were also utilized to sample groundwater at the Del Amo Superfund Site, Boeing C-6 Facility, and ILM Site.

Low flow sampling methods were conducted in compliance with established EPA protocols (USEPA, 1996). A low flow bladder pump, the 1.75-inch QED Environmental Systems Sample Pro, dedicated tubing, and a compressed nitrogen cylinder were used to collect groundwater samples from the middle of the well screen. The pump was positioned in the middle of the well screen, and the well purged at a low flow between 100 and 400 milliliters per minute. The water level in the well was gauged to ensure no or minimal drawdown during purging.

Before and after each well, the stainless steel components were decontaminated utilizing a standard triple rinse method and non-phosphate detergent, and the disposable bladder and tubing were replaced. Only distilled water was utilized during decontamination procedures; Site water was not used during any portion of the field operations. All decontamination and purge water was pumped to the UBA-EW-3 treatment system for processing.

Following purging, groundwater samples were collected directly from the pump tubing using laboratory-supplied sample containers. All groundwater sample containers were filled completely with no void or trapped air space. All sample containers were labeled, packed in coolers, and transferred to a courier to be transported to Eurofins CalScience Environmental Laboratory (CalScience) or Test America Laboratories, Inc. under proper chain-of-custody procedures.

Field parameters were monitored during well purging to ensure stable groundwater conditions prior to sampling. Groundwater quality monitoring instruments were calibrated daily (prior to use) for monitoring the following parameters: temperature, pH, electric conductivity, dissolved oxygen (DO), oxidation reduction potential (ORP), and turbidity. Groundwater was purged until at least one tubing volume was removed and temperature, pH, and electrical conductivity had stabilized within ±10% over three consecutive readings and turbidity was below 20 Nephelometric turbidity units (NTUs). All groundwater data generated during well purging were recorded on a field purge log, which are presented in **Appendix A.**

2.3 Analytical Methods

All groundwater samples collected during the 2014 baseline monitoring event were analyzed for the following:

- VOCs: A total of 83 samples were collected by AECOM and submitted for VOC analysis by EPA Method 8260B. An additional 17 samples were collected from wells by other consultants, which are a part of the Montrose MACP.
- pCBSA: A total of 83 samples were collected by AECOM and submitted for pCBSA analysis by EPA Method 314.0 Modified. An additional 17 samples were collected from wells by other consultants, which are a part of the Montrose MACP.

The majority of groundwater samples were analyzed by Calscience in Garden Grove, California. Groundwater samples collected by Boeing were submitted to Test America Laboratories, Inc. (Test America) in Irvine, California. The groundwater samples collected by AECOM from well SWL0049

were analyzed for VOCs by Test America. Copies of laboratory reports and electronic data deliverables collected by AECOM on behalf of Montrose are provided in **Appendix B**.

2.4 Quality Assurance/Quality Control

Quality assurance quality control (QA/QC) samples were collected to monitor the effectiveness of the decontamination procedures and to identify any field or laboratory conditions that may have affected sample integrity in accordance with MACP. There were a total of 40 QA/QC samples collected, which included the following:

- **Trip Blanks** (TB-20140903, TB-20140904, TB-20140905, TB-20140908, TB20140908-B, TB-20140909, TB20140909-B, TB-20140910, TB20140911, TB-20140915, TB-20140916, TB20140918, and TB-20140919) – One new laboratory-prepared trip blank sample was transported with each cooler containing more than one groundwater sample submitted and analyzed for VOCs by EPA Method 8260B.
- **Equipment Blanks** (EB-20140903, EB-20140904, EB-2040905, EB-20140908, EB-20140909, EB-20140910, EB-20140911, EB-20140915, EB-20140916, EB-20140918 EB-20140919, EB-20150113) – Eleven equipment blanks were collected to test for potential cross-contamination from the sampling equipment, an equipment blank was collected daily when sampling with a non-dedicated pump. Laboratory certified water was poured across the decontaminated sampling pump and collected in laboratory supplied containers. Each equipment blank sample was analyzed for VOCs by EPA Method 8260B and pCBSA by EPA Method 314.0 Modified. The equipment blanks were analyzed by the same analytical methodologies as the primary samples.
- **Duplicate Samples** (MW-900-20140905, BF-100-20140908, BF-1200-20140916, BF-1500-20140904, G-100-20140909, G-1300-20140905, G-1700-20140910, G-2600-20140904, LG-100-20140916, and LW-100-20140910) – Duplicate samples were collected from 10 of the 83 wells sampled. The wells selected for duplicate sample collection were MW-9, BF-1, BF-12, BF-15, G-1, G-13, G-17, G-26, LG-1, and LW-1. For these wells, a duplicate set of sample containers was filled immediately following the collection of the corresponding unique sample. Each duplicate sample was handled and analyzed in an identical fashion as the unique samples.
- **Matrix Spike/Matrix Spike Duplicate (MS/MSD) Samples –** 10 MS/MSD samples were analyzed. At each of these wells, additional sets of sample containers were filled immediately following collection of the corresponding unique sample and submitted for laboratory QA/QC purposes. Each MS/MSD sample was handled and analyzed in an identical fashion to the unique samples.

A Tier 2 or Level III data validation review was performed on all of the analytical data for accuracy and completeness. A full data package for a Tier 3 or Level IV data validation review was provided that included more than 10% of the samples analyzed for the sampling suite and included the following information: method blank data, surrogate, tuning, and calibration data, chromatographs, and instrument run logs. The laboratory provided analytical data in both hard copy and electronic data deliverable (EDD) format. All analytical results, including QA/QC sample results, are discussed in Section 3.0 of this report. During this event, all results were valid and usable. A copy of the Data Quality Assessment and Data Validation Report is provided in **Appendix C**.

2.5 Waste Management

Purged groundwater and decontamination water generated during sampling activities was treated utilizing the temporary UBA-EW-3 treatment system located on the corner of 204th street and Normandie Avenue across the street from the Montrose Property. During the month of September 2014, treated groundwater was intermittently discharged under National Pollutant Discharge Elimination System (NPDES) Permit No. CAG994004 and Order No. R4-2013-0095 (Compliance File No. CI-8819). This permit was last revised on March 12, 2014 and authorized the discharge of treated groundwater associated with the Montrose Superfund Site to a maximum of fourteen separate outfalls designated as M-001 through M-014. Groundwater was treated prior to discharge using filtration, granular activated carbon (GAC), and resin for metals treatment. More information regarding the operation of this system can be found in the *Third Quarter 2014 Self-Monitoring Report* submitted to the Los Angeles Water Quality Control Board on November 14, 2014 (AECOM, 2014c).

3 GROUNDWATER MONITORING RESULTS

This section summarizes the monitoring results, both hydraulic and laboratory data, from the groundwater monitoring event conducted during September 2014. This section only presents the results of wells sampled as part of the Montrose MACP. **Sections 3.1 through 3.4** discuss groundwater elevations, horizontal groundwater gradients, field parameters, and analytical results for the designated water-bearing units. Vertical groundwater gradients between water-bearing units are discussed in **Section 3.5**. QA/QC results and data validation are discussed in **Sections 3.6 and 3.7**.

During the 2014 groundwater monitoring event, 83 wells were purged and sampled by AECOM on behalf of Montrose. An additional 213 groundwater wells were sampled by representatives on behalf of the Del Amo Superfund (91 wells), ILM (54 wells) and Boeing (68 wells) during this event. Split samples from another 22 wells were collected by representatives of the Del Amo Superfund Site, ILM, and Boeing and provided to AECOM.

A groundwater sampling matrix is provided as **Table 2** and summarizes the wells sampled, the split samples provided to AECOM, the sampling dates, and the requested analyses. The samples from the 83 wells purged by AECOM were analyzed for VOCs and pCBSA. A total of 40 QA/QC samples including equipment blanks, duplicates, MS/MSDs, and trip blanks were also collected. The VOC concentrations detected during this event are summarized in **Table 3**. The pCBSA concentrations detected during this event are summarized in **Table 4.** Groundwater elevation maps, hydrographs, chlorobenzene and pCBSA isoconcentration maps are provided as **Figures 4 through 19**. Sample results collected by the Del Amo Superfund Site, ILM, and Boeing have been mapped in this report, but are not otherwise tabulated or discussed except where appropriate for delineating dissolved contaminants associated with the Montrose Superfund Site. The results are presented by water-bearing unit in the following sections.

3.1 Upper Bellflower Aquitard

On September 2, 2014, a total of 45 UBF wells were gauged by AECOM. Between September 3 and 30, 2014, 17 UBF wells were sampled by AECOM. An additional 3 wells were sampled by ILM and 2 wells by Shell for the Del Amo Superfund Site.

3.1.1 Groundwater Elevations and Horizontal Gradient

The depth to groundwater in the Montrose UBF monitoring wells ranged from 33.00 (MW-24) to 65.11 ft (MW-8). The associated groundwater elevations ranged from -9.39 feet mean sea level (MSL) at PZL0025 to -11.07 ft AMSL at MW-25. Boeing extraction wells EWB003, MW0005 and WCC-07S were in operation during the gauging event and influenced groundwater elevations for wells located on the Boeing property.

At the Montrose property, groundwater elevations were relatively flat and ranged from -10.16 ft MSL at UBI-1 and UBI-2 to -10.48 ft MSL at UBE-3. Groundwater elevations are provided in Table 1 and mapped in Figure 4**.**

The horizontal hydraulic gradient in the UBF across the Montrose property is relatively small at approximately 0.0002 ft/ft in a generally southerly direction. The horizontal gradient is slightly below the gradient range previously measured in 2012 (i.e., 0.0003 ft/ft).

Groundwater elevations in the UBF have fallen by approximately 0.6-ft since the groundwater event in 2012. A hydrograph of groundwater elevations in the UBF is provided as Figure 5.

3.1.2 Field Parameters

Groundwater parameters monitored during well purging activities included temperature, pH, EC, DO, turbidity, and ORP. All UBF wells were purged utilizing low flow techniques until the parameters stabilized a minimum of three consecutive readings within 10 percent. The stabilized parameters are considered to be representative of groundwater conditions within that water-bearing unit and are summarized as follows:

- Groundwater was purged at rates between 50 and 350 milliliters per minute (ml/min)
- Temperature ranged from 22.30 to 27.39° Centigrade (°C)
- pH ranged from 6.01 to 7.85
- Conductivity ranged from 1.014 to 6.348 milliSiemens per centimeter (mS/cm)
- DO ranged from 0.23 to 3.18 milligrams per liter (mg/L)
- ORP ranged from -74 to +135 millivolts (mV)
- Turbidity ranged from less than 1 to 138 NTUs

3.1.3 Chlorobenzene

A total of 22 groundwater samples were collected and analyzed for VOCs by EPA Method 8260B from wells screened in the UBF as a part of the Montrose MACP. This scope included all monitoring wells located within the chlorobenzene plume extent (8 wells), with the exception of DNAPL-impacted wells, and the majority of the perimeter wells to reliably delineate the extent of chlorobenzene at the site (14 wells), including all six wells downgradient of SWL0049. Monitoring well MW-2, located within the DNAPL impacted area, is included for the purposes of characterizing the dissolved chlorobenzene concentration. AECOM collected 17 samples, Shell collected two samples (PZL0025 and MW-28) and ILM collected three samples (MW-3, MW-8 and MW-31). An additional 116 wells were sampled by others as part of the Boeing, ILM and Del Amo Superfund programs and include Montrose wells MBFB-OW-1, MW-7, MW-17, MW-21, MW-27 and MW-29.

Chlorobenzene concentrations in the UBF varied from <0.50 µg/L at multiple wells to 350,000 µg/L at MW-2. Concentrations exceeding the ISGS of 70 µg/L were detected at six wells sampled as a part of the MACP, (MW-1, MW-2, MW-4, MW-11, MW-12 and SWL0049) and two wells sampled as a part of other investigations (MW-14 and MW-13). Chlorobenzene results are provided in Table 3, and chlorobenzene results for all UBF monitoring wells sampled in 2014 and Baseline TGRS extraction wells are mapped in Figure 5.

Chlorobenzene concentrations in the UBF were generally consistent with historical results with the exception of the following:

- MW-4: Chlorobenzene concentration of 960 µg/L is significantly below the 2006 detection of 18,000 µg/L. The historical range for this well is (58 to 18,000 µg/L).
- MW-5: Chlorobenzene concentration of 19 µg/L is significantly below the 2004 detection of 480 µg/L. The historical range for this well is (8.4 to 200,000 µg/L).

- MW-11: Chlorobenzene concentration of 320 µg/L is below the historical range (930 to 34,000 µg/L). This well was last sampled in January 2004.
- MW-12: Chlorobenzene concentration of 650 µg/L is below the historical range (2,800 to 8,200 µg/L). This well was last sampled in January 2004.
- SWL0049: During the 2012 event, the chlorobenzene concentration in this well was detected at 2,900 µg/L which was above the historical range (8 to 2,100 µg/L). The prior result from November 2006 (8 µg/L) was anomalously low relative the rest of the historical data for this well (520 to 2,100 µg/L). Chlorobenzene levels in this well continued to rise throughout 2012 and 2013 until beginning to decline in July 2014 as a result of pilot extraction testing activities. The chlorobenzene concentration trend for SWL0049 is included in Appendix D**.** Beginning in November 2013, a series of pilot extraction test were conducted at the following upgradient wells:
    - MW-13: This well is located north of SWL0049 and is located in the immediate vicinity of proposed TGRS extraction well UBA-EW-2. A pilot extraction test was conducted from November 18 to December 31, 2013 at this location. Due to the presence of TBA from the nearby Del Amo Site, the testing at this well was terminated.
    - MBFB-EW-1 and MW-14: These wells were the closest upgradient wells to SWL0049. From February 20 to March 31, 2014, both were pumped at cumulative rates ranging from 5 to 15 gpm. Due to the presence of benzene and TBA from the nearby Del Amo Site and comparatively low chlorobenzene, the testing at these wells was terminated.
    - UBA-EW-3: Extraction well UBA-EW-3 was drilled and installed in March 2014 and is located approximately 140 ft northwest (upgradient) of SWL0049. A temporary extraction system was constructed and a pilot extraction test was started on May 7, 2014. Groundwater was pumped at rates ranging from 10 to 45 gpm. After two months of operation, chlorobenzene concentrations began to decline in SWL0049. The test was terminated on October 31, 2014 in order to complete TGRS construction. The progress sample collected on October 31, 2014 is posted on Figure 5 instead of the September 30, 2014 result.

With the exception of the above wells, the overall distribution of chlorobenzene in the UBF remains relatively unchanged from the prior groundwater monitoring events. Concentration versus time graphs of the above wells and plume edge wells are presented in Appendix D.

3.1.4 Other VOCs

Other than chlorobenzene, a total of 16 VOCs were detected in the groundwater samples collected from UBF wells during the 2014 monitoring event. VOC results are provided in Table 3. 10 of the 16 detected VOCs exceeded their respective ISGS in at least one sample including (in declining concentration order):

- Chloroform (CF): 17 of 22 samples at concentrations from 0.27 J µg/L at MW-30 to 31,000 µg/L at MW-2, which is consistent with historical results. The chloroform concentration at MW-6 is lower at 710 µg/L than the historical range of 1,500 to 8,300 µg/L. All other CF concentrations are consistent with historical results.

- Tetrachloroethene (PCE): 13 of 22 samples at concentrations to 6,100 µg/L at MW-6. All other PCE concentrations are consistent with historical results.
- Benzene: 5 out of 22 samples at concentrations from 0.66 J µg/L at MW-11 to 2,400 µg/L at MW-1. The benzene concentrations are consistent with historical results.
- Trichloroethene (TCE): 14 of 22 samples at concentrations from 1.1 µg/L at MW-11 to 510 µg/L at MW-4. The TCE concentration of 510 µg/L at MW-4 is above the historical range for this well (<5 to 170 µg/L). All other TCE concentrations are consistent with historical results.
- 1,2-Dichloroethane (1,2-DCA): 5 of 22 samples at concentrations to 140 µg/L at SWL0049. All 1,2-DCA concentrations are consistent with historical results.
- 1,1,2-Trichloroethane (1,1,2-TCA): 1 of 22 samples at a concentration of 68 µg/L at MW-22, which is within the historical range for this well (3 to 170 µg/L).
- 1,1-Dichloroethene (1,1-DCE): 5 of 22 samples at a concentrations from 0.31 J µg/L at MW-22 to 40 µg/L at MW-3, which is consistent with historical results.
- cis-1,2-Dichloroethene (c-1,2-DCE): 2 of 22 samples at concentrations of 0.59J µg/L at MW-3 and 35 µg/L at MW-6, which is consistent with historical results.
- 1,4-Dichlorobenzene (1,4-DCB): 2 of 22 samples at a concentrations of 1.7 J in MW-12 and 19 µg/L at SWL0049, which is consistent with historical results.
- 1,1-Dichloroethane (1,1-DCA): 2 of 22 samples at a concentrations of 1.5 µg/L at MW-3 and 15 J µg/L at MW-6, which is below the historical range for this well (<50 to 130 µg/L).

3.1.5 pCBSA

A total of 22 groundwater samples were collected and analyzed for pCBSA by modified EPA Method 314 from wells screened in the UBF as a part of the Montrose MACP. pCBSA was detected in 15 out of 22 wells in concentrations between 2.6 J (MW-9) and 520,000 µg/L (MW-2). pCBSA results are provided in Table 4 and mapped on Figure 7. pCBSA concentrations in the UBF were generally consistent with historical results with the exception of the following:

- MW-12: pCBSA concentration of 130 µg/L is below the historical range (8,900 to 54,000 µg/L).
- MW-10 and MW-11: pCBSA concentration of 170 and 240 µg/L respectively are above the historical results of <10 and <100 µg/L.

With the exception of the above wells, the overall distribution of pCBSA in the UBF remains relatively unchanged from the prior groundwater monitoring events.

3.2 Middle Bellflower C Sand Aquifer

On September 2, 2014, a total of 55 MBFC wells were gauged by AECOM. Between September 3 and 30, 2014, 18 MBFC wells were sampled by AECOM. An additional 4 wells were sampled by Boeing, 3 wells were sampled by ILM, and 2 wells by Shell for the Del Amo Superfund Site.

3.2.1 Groundwater Elevations and Horizontal Gradient

The depth to groundwater in the MBFC monitoring wells ranged from 30.12 (SWL0058) to 66.01 ft (BF-34). The associated groundwater elevations ranged from -9.76 ft MSL at BF-32A to –14.00 ft MSL at SWL0033. At the Montrose property, groundwater elevations ranged from -10.17 ft MSL at BF-02 to -10.57 ft MSL at BF-03. Groundwater elevations in the MBFC are provided in **Table 1** and mapped in **Figure 8**.

The horizontal hydraulic gradient in the MBFC downgradient from the Montrose property is approximately 0.0003 to 0.0004 ft/ft in a south/southeasterly direction. The hydraulic gradient increases slightly to the southeast (i.e., from 0.0003 to 0.0004 ft/ft). The horizontal gradient is consistent with the gradient previously measured in 2012 (i.e., 0.0003 to 0.0005 ft/ft).

Groundwater elevations in the MBFC have fallen by approximately 0.2-ft since 2012. A hydrograph of groundwater elevations in the BFS is provided as **Figure 9**.

3.2.2 Field Parameters

Groundwater parameters monitored during well purging activities included temperature, pH, EC, DO, turbidity, and ORP. All MBFC wells were purged utilizing low flow techniques until the parameters stabilized a minimum of three consecutive readings within 10 percent. The stabilized parameters are considered to be representative of groundwater conditions within that water-bearing unit and are summarized as follows:

- Groundwater was purged at rates between 50 and 350 ml/min
- Temperature ranged from 21.78 to 25.67°C
- pH ranged from 5.93 to 10.09
- Conductivity ranged from 1.014 to 6.348 mS/cm
- DO ranged from 0.15 to 2.67 mg/L
- ORP ranged from -240 to +113 mV
- Turbidity ranged from 0.41 to 97 NTUs

The MBFC field parameters measured for temperature, DO and ORP during this event are generally consistent with the 2012 groundwater monitoring event. By changing to low flow sampling methods, the remaining field parameters are not consistent for pH, conductivity, and turbidity with the last monitoring event.

3.2.3 Chlorobenzene

A total of 27 groundwater samples were collected from MBFC monitoring wells and analyzed for VOCs by EPA Method 8260B (including 18 samples collected by AECOM, 4 by Boeing, 3 by ILM and 2 by Shell) as part of the Montrose MACP. This sampling scope includes all monitoring wells located within the chlorobenzene plume (19 wells) and nearly all perimeter wells (17 wells) to reliably delineate the extent of the chlorobenzene at the site. Only a few redundant wells were excluded from this event because they are too remote from the chlorobenzene plume and do not contribute to the delineation of chlorobenzene at the site. An additional 45 wells were sampled by others as a part of the Boeing, ILM and Del Amo Superfund programs and include Montrose wells BF-6, BF-13, and BF-34.

Chlorobenzene concentrations in the MBFC varied from <0.5 µg/L at multiple wells to 12,000 µg/L at BF-9. Concentrations exceeding the ISGS of 70 µg/L were detected at 16 wells. Chlorobenzene results are provided in Table 3 and mapped on Figure 10.

Chlorobenzene concentrations in the MBFC were generally consistent with historical results with the exception of the following:

- BF-3: Chlorobenzene concentration of 1,500 µg/L is significantly below the historical range of (6,100 to 23,000 µg/L).
- BF-4: Chlorobenzene concentration of 550 µg/L is significantly below the historical range of (15,000 to 42,000 µg/L). This well was last sampled in 2004.
- BF-11: Chlorobenzene concentration of 6.1 µg/L is significantly below the historical range of (100 to 8,800 µg/L) and the 2012 detection of 5,600 µg/L.
- BF-14: Chlorobenzene concentration of 41 µg/L is below the historical range (1,200 to 2,000 µg/L) and the 2012 detection of 730 µg/L.
- BF-15: Chlorobenzene concentration of 690 µg/L is below the historical range (8,300 to 42,000 µg/L) and the 2012 detection of 10,000 µg/L.
- BF-20: Chlorobenzene concentration of 5,300 µg/L is above the historical range (29 to 2,100 µg/L).
- BF-21: Chlorobenzene concentration of 240 µg/L is below the historical range (1,500 to 8,900 µg/L).

With the exception of the above wells, the overall distribution of MCB in the BFS remains relatively unchanged from the prior groundwater monitoring events with the exception of the 10,000 µg/L contour. Since 2012, the 10,000 µg/L contour has withdrawn approximately 2,750 feet. Concentration versus time graphs of these above wells and plume edge wells are presented in Appendix D.

3.2.4 Other VOCs

Other than MCB, a total of 16 VOCs were detected in the 27 groundwater samples collected. VOC results are provided in Table 3. 9 of the 16 detected VOCs exceeded their respective ISGS in at least one sample including (in declining concentration order):

- CF: 10 of 27 samples at concentrations from 0.31 J µg/L at BF-22 to 2,100 µg/L at CMW002. The CF concentration of 2,100 µg/L at CMW002 is slightly above the historical range for this well (<40 to 930 µg/L).
- TCE: 12 of 27 samples at concentrations from 1.3 µg/L at BF-OW-3 and BF-15 to 1,500 µg/L at BF-35, which is consistent with historical results.
- 1,2-DCA: 8 of 27 samples at concentrations from 0.39 J µg/L at BF-29 to 320 µg/L at BF-24. All detected 1,2-DCA concentrations are consistent with historical results.
- c-1,2-DCE: 6 of 27 samples at a concentration from 0.87 J µg/L at BF-OW-1 to 200 µg/L at MWC017, which is consistent with historical results.

- Benzene: 13 of 27 samples at concentrations from 0.44 J µg/L at BF-OW-1 to 160 µg/L at CMW002. All detected benzene concentrations are consistent with historical results.
- 1,4-DCB: 15 of 27 samples at concentrations from 0.49 J µg/L at BF-21 to 41 J µg/L at CMW002, which is consistent with historical results.
- 1,1-DCE: 4 of 27 samples at concentrations from 0.48 J µg/L at MWC021 to 30 µg/L at MWC017, which is consistent with historical results.
- 1,2-Dichloropropane: 2 of 27 samples at concentrations from 0.50 µg/L at BF-31 to 10 µg/L at BF-24, which is consistent with historical results.
- Vinyl Chloride: 1 of 27 samples at a concentration of 29 µg/L at MWC017, which is consistent with historical results.

3.2.5 pCBSA

A total of 27 groundwater samples were collected from MBFC monitoring wells and analyzed for pCBSA by EPA Method 314.0 Modified. pCBSA concentrations in the MBFC monitoring wells varied from <5 µg/L at multiple wells to 98,000 µg/L at BF-2, which is below the concentrations previously detected at three TGRS extraction wells (100,000 to 140,000 µg/L). pCBSA results are provided in Table 4 and mapped in Figure 11**.**

pCBSA concentrations in the MBFC were generally consistent with historical results with the exception of the following:

- BF-3: pCBSA concentration of 8,900 µg/L is below the historical range (26,000 to 61,000 µg/L).
- BF-4: pCBSA concentration of 17,000 µg/L is above the historical range (<200 to <1,000 µg/L).
- BF-10: pCBSA concentration of <5.0 µg/L is significantly below the historical range (320 to 3,200 µg/L).
- BF-12: pCBSA concentration of 30,000 µg/L is above the historical range (<1,000 to 24,000 µg/L).
- BF-15: pCBSA concentration of 1,400 BF-12 µg/L is significantly below the historical range (37,000 to 93,000 µg/L).
- BF-20: pCBSA concentration of 52,000 µg/L is above the historical range (<1,000 to 11,000 µg/L).
- BF-22: pCBSA concentration of 14,000 µg/L is above the historical range (3,400 to 7,700 µg/L).
- BF-25: pCBSA concentration of 4.7J µg/L is below the historical range (79 to 8,000 µg/L).
- BF-29: pCBSA concentration of 25 µg/L is significantly below the historical range (790 to 7,400 µg/L).

With the exception of the above wells, the overall distribution of pCBSA in the MBFC remains relatively unchanged from the prior groundwater monitoring events. The highest pCBSA concentrations in the MBFC occur at TGRS extraction wells BF-EW-1, BF-EW-2, and BF-EW-5 located along the center of the dissolved plume extent.

3.3 Gage Aquifer

On September 2, 2014, a total of 51 Gage wells were gauged by AECOM. Between September 3 and 30, 2014, 32 Gage wells were sampled by AECOM. An additional 1 well was sampled by ILM, and 3 wells by Shell for the Del Amo Superfund Site.

3.3.1 Groundwater Elevations and Horizontal Gradient

The depth to groundwater in the Gage monitoring wells ranged from 32.20 to 66.35 feet. The associated groundwater elevations ranged from -10.34 ft MSL at G-OW-1 to –16.89 ft MSL at G-32. At the Montrose property, groundwater elevations ranged from -11.38 ft MSL at G-3 to -11.59 ft MSL at LG-2. Groundwater elevations in the Gage Aquifer are provided in Table 1 and mapped in Figure 12.

The horizontal hydraulic gradient in the Gage Aquifer downgradient from the Montrose property is approximately 0.0004 to 0.001 ft/ft in a southeast/easterly direction. This horizontal gradient is consistent with the gradient previously measured in 2012 (0.0004 ft/ft).

Groundwater elevations in the Gage Aquifer on average have remained stable since the last monitoring event in 2012. A hydrograph of groundwater elevations in the Gage Aquifer is provided as Figure 13.

3.3.2 Field Parameters

Groundwater parameters monitored during well purging activities included temperature, pH, EC, DO, turbidity, and ORP. All Gage wells were purged utilizing low flow techniques until the parameters stabilized a minimum of three consecutive readings within 10 percent. The stabilized parameters are considered to be representative of groundwater conditions within that water-bearing unit and are summarized as follows:

- Groundwater was purged at rates between 50 and 350 ml/min
- Temperature ranged from 21.72 to 26.75°C
- pH ranged from 6.58 to 8.99
- Conductivity ranged from 0.328 to 1.452 mS/cm
- DO ranged from less than 0.01 to 1.66 mg/L
- ORP ranged from -181 to +50 mV
- Turbidity ranged from 0.25 to 59 NTUs, with G-16 at 695 NTUs

The Gage field parameters measured for temperature, pH, conductivity, and DO during this event are generally consistent with the 2012 groundwater monitoring event. By changing to low flow sampling methods, the remaining field parameters are not consistent for ORP and turbidity with the last monitoring event.

3.3.3 Chlorobenzene

A total of 36 groundwater samples were collected from Gage Aquifer monitoring wells and analyzed for VOCs by EPA Method 8260B (including 32 samples collected by AECOM, 3 samples collected by Shell, and 1 sample collected by ILM). MCB concentrations in the Gage Aquifer varied from <0.5 µg/L at

multiple wells to 5,500 µg/L at LG-2. Concentrations exceeding the ISGS of 70 µg/L were detected at 13 wells. MCB results are provided in Table 3 and mapped in Figure 14.

MCB concentrations in the Gage Aquifer were generally consistent with historical results with the exception of the following:

- G-2: MCB concentration of 3,400 µg/L is below the historical range (6,900 to 20,000 µg/L).
- G-1: MCB concentration of 7.9 µg/L is below the historical range (190 to 990 µg/L).
- G-3: MCB concentration of 32 µg/L is below the historical range (240 to 2,200 µg/L).
- LG-2: MCB concentration of 5,500 µg/L is above the historical range (120 to 390 µg/L).
- G-13: MCB concentration of 930 µg/L is below the historical range (1,100 to 4,400 µg/L).
- G-19A: MCB concentration of 110 µg/L is above the historical range (26 to 27 µg/L).

With the exception of the above wells, the overall distribution of MCB in the Gage remains relatively unchanged from the prior groundwater monitoring events. Concentration versus time graphs of these above wells and plume edge wells are presented in Appendix D.

3.3.4 Other VOCs

Other than MCB, a total of 14 VOCs were detected in the 36 groundwater samples collected during the 2012 monitoring event. VOC results are provided in Table 3. Five of the 14 detected VOCs exceeded their respective ISGS in at least one sample including (in declining concentration order):

- TCE: 9 of 36 samples at concentrations from 0.37J µg/L at G-3 to 380 µg/L at G-21, which is below historical results (up to 470 µg/L).
- Benzene: 9 of 36 samples at concentrations from 0.62 µg/L at G-19A to 35 µg/L at SWL0063, which is below historical results (up to 460 µg/L). All other benzene concentrations are consistent with historical results.
- c-1,2-DCE: 5 of 36 samples at concentrations from 0.72 µg/L in G-21 to 65 µg/L at G-14, which is consistent with historical results.
- 1,2-DCA: 8 of 36 samples at concentrations from 0.40 J µg/L in G-33 to 7.1 µg/L at G-25, which are consistent with historical results.
- 1,4-DCB: 5 of 36 samples at concentrations from 0.38 J µg/L to 10 µg/L at G-24, which is consistent with historical results.

Several of the above VOCs were detected at well SWL0063, which is located at the Del Amo Superfund Site and outside the extents of the dissolved MCB plume associated with the Montrose Superfund Site. VOC impacts to groundwater at well SWL0063 are not associated with former Montrose operations.

3.3.5 pCBSA

A total of 36 groundwater samples were collected from Gage Aquifer monitoring wells and analyzed for pCBSA by EPA Method 314.0 Modified. pCBSA concentrations in the Gage Aquifer varied from <5

µg/L at several wells to 38,000 µg/L at G-5, which is consistent with the pCBSA concentrations previously detected at the TGRS extraction wells (3,700 to 21,000 µg/L). pCBSA results are provided in Table 4 and mapped in Figure 15.

pCBSA concentrations in the Gage Aquifer were generally consistent with historical results with the exception of the following:

- G-1: pCBSA concentration of 91 µg/L is below historical range (500 to 6,500 µg/L).
- G-3: pCBSA concentration of 150 µg/L is below historical range (3,700 µg/L).
- LG-2: pCBSA concentration of 27,000 µg/L is above historical range (14,000 µg/L).
- G-9: pCBSA concentration of 29,000 µg/L is above historical range (7,500 to 12,000 µg/L).
- G-19A: pCBSA concentration of 5,700 µg/L is above historical range (1,500 to 1,600 µg/L).
- G-24: pCBSA concentration of 9,200 µg/L is below the historical range (13,000 to 15,000 µg/L).
- G-25: pCBSA concentration of 1,200 µg/L is below the historical range (1,600 to 14,000 µg/L).
- G-26: pCBSA concentration of 730 µg/L is below the historical range (1,200 to 1,300 µg/L).
- G-29: pCBSA concentration of 11,000 µg/L is above the historical range (6,800 to 8,400 µg/L).

With the exception of the above wells, the overall distribution of pCBSA in the Gage remains relatively unchanged from the prior groundwater monitoring events. Gage extraction wells G-EW-1, G-EW-2, and G-EW-4 are located along the plume center where the highest pCBSA concentrations have been detected.

3.4 Lynwood Aquifer

On September 2, 2014, a total of 7 Lynwood wells were gauged by AECOM. Between September 3 and 30, 2014, 6 Lynwood wells were sampled by AECOM using low flow methods. One Lynwood well (LW-4) was resampled on January 13, 2015 using macro-purging methods.

3.4.1 Groundwater Elevations and Horizontal Gradient

The depth to groundwater in the 7 Lynwood monitoring wells ranged from 62.00 to 69.99 ft. The associated groundwater elevations ranged from -21.31 ft MSL at LW-07 to –21.67 ft MSL at LW-03. Groundwater elevations in the Lynwood Aquifer are mapped in Figure 16.

The horizontal hydraulic gradient in the Lynwood Aquifer at the Montrose property is approximately 0.0001 ft/ft in a northeasterly direction, although there are only 7 monitoring wells screened in this aquifer unit, all located at or within 800 feet of the Montrose property. This horizontal hydraulic gradient is identical to the gradient previously measured in 2006 and 2012.

Groundwater elevations in the Lynwood Aquifer have risen by approximately 1.3-ft since the last monitoring event in 2012. A hydrograph of groundwater elevations in the Lynwood Aquifer is provided as Figure 17.

3.4.2 Field Parameters

Groundwater parameters monitored during well purging activities included temperature, pH, EC, DO, turbidity, and ORP. All Lynwood wells were purged utilizing low flow techniques until the parameters stabilized a minimum of three consecutive readings within 10 percent. The stabilized parameters are considered to be representative of groundwater conditions within that water-bearing unit and are summarized as follows:

- Groundwater was purged at rates between 200 and 350 ml/min
- Temperature ranged from 21.53 to 25.40°C
- pH ranged from 5.90 to 8.55
- Conductivity ranged from 0.409 to 1.000 mS/cm
- DO ranged from 0.32 to 1.44 mg/L
- ORP ranged from -120 to -4 mV
- Turbidity ranged from 1.37 to 45 NTUs

3.4.3 Chlorobenzene

MCB was detected in 2 of the 6 Lynwood monitoring wells at a concentration below the ISGS. The detection in well LW-1 is consistent with historic data. However, a MCB detection in well LW-4 (4.4 µg/L) is not consistent with historic data (<1 to <2 µg/L). An obstruction was found in well LW-4 during low flow sampling in September 2014. The obstruction was removed and the well re-developed. LW-4 was subsequently resampled in January 2015 following macro-purging of approximately 4.8 well volumes. Following macro-purging, the MCB concentration at LW-4 remained at 4.4 µg/L. MCB results are provided in Table 3 and mapped in Figure 18.

3.4.4 Other VOCs

No other VOCs were detected in any of the 6 Lynwood monitoring wells, which is consistent with historic data.

3.4.5 pCBSA

A total of 6 groundwater samples were collected from Lynwood Aquifer monitoring wells and analyzed for pCBSA by EPA Method 314.0 Modified. pCBSA concentrations in the Lynwood Aquifer varied from <5 µg/L at 4 wells to 780 µg/L at LW-4, which is above the historical range for this well (<10 to <10,000 µg/L). However, an obstruction was found in well LW-4 during low flow sampling in September 2014. LW-4 was subsequently resampled in January 2015 following macro-purging of approximately 4.8 well volumes. Following macro-purging, the pCBSA concentration at LW-4 declined to 130 µg/L. pCBSA results are provided in Table 4 and mapped in Figure 19. pCBSA concentrations in the Lynwood Aquifer were generally consistent with historical results with the exception of LW-4.

3.5 Vertical Gradients

The vertical hydraulic gradient between aquifer units was calculated by dividing the difference in groundwater elevations with the difference in screened intervals at paired or co-located wells. The

vertical hydraulic gradients between aquifer units at the site are downward and increase with increasing depth as follows:

UBF to MBFC: The vertical hydraulic gradient between the UBF and MBFC is downward and relatively small at approximately 0.004 to 0.02 ft/ft. The vertical head difference between water elevations is approximately 0.1 to 0.6 feet, which is consistent with the head difference reported previously (i.e.,0.1 to 0.6 feet in 2012).

MBFC to Gage Aquifer: The vertical hydraulic gradient between the MBFC and Gage Aquifer is downward at approximately 0.03 to 0.07 ft/ft. The vertical head difference between water elevations is approximately 1.5 to 2.0 feet, which is consistent with the head difference previously reported (i.e., 1.0 to 2.0 feet in 2012).

Gage to Lynwood Aquifer: The vertical hydraulic gradient between the Gage and Lynwood Aquifers is downward at approximately 0.14 to 0.20 ft/ft. The vertical head difference between water elevations is approximately 11 feet, which is consistent with the head difference previously reported (i.e., 10 feet in 2012 and in 2006).

3.6 QA/QC Sample Results

Laboratory results for QA/QC samples are provided in the following sections including trip blanks, equipment blanks, field duplicates and MS/MSD samples.

3.6.1 Trip Blanks

A total of 13 trip blanks (TB-20140903, TB-20140904, TB-20140905, TB-20140908, TB20140908-B, TB-20140909, TB20140909-B, TB-20140910, TB20140911, TB-20140915, TB-20140916, TB20140918, and TB-20140919) were collected by AECOM during September 2014. No VOCs were detected in any of the trip blanks collected, and as a result no data was qualified. Trip blank results are provided in Table 5.

3.6.2 Equipment Blanks

A total of 11 equipment blank samples (EB-20140903, EB-20140904, EB-2040905, EB-20140908, EB-20140909, EB-20140910, EB-20140911, EB-20140915, EB-20140916, EB-20140918, and EB-20140919) were collected by AECOM during the 2014 groundwater sampling event. An additional equipment blank sample, EB-20150113 was collected when LW-4 was re-sampled. Equipment blank results are provided in Table 5 and summarized as follows:

- Methylene chloride was detected at concentrations of 0.41 J to 1.3 µg/L in five equipment blanks. All associated samples were nondetect and none were qualified.
- Acetone and toluene were detected at concentrations of 3.7 and 0.43 J µg/L, respectively in one equipment blank. Acetone was detected at 3.8 µg/L in EB-20150113. All associated samples were nondetect and none were qualified.
- Chloroform was detected at a concentration of 0.28 J and 0.22 J µg/L in two equipment blanks. All associated samples were nondetect and none were qualified.

- Chlorobenzene was detected at a concentration of 0.22 J µg/L in one equipment blank. One associated sample, BF-31-20140910 (14-09-0760) , was blank qualified (U) as non-detected at the reported concentration due to this trace detection.
- TBA was detected at a concentration of 8.0 J µg/L in EB-20150113.. One associated sample, LW-4-20150113 (15-01-0665), was blank qualified (U) as non-detected at the reported concentration due to this trace detection.No pCBSA was detected in any of the equipment blank samples.

3.6.3 Field Duplicates

A total of 10 field duplicates (MW-900-20140905, BF-100-20140908, BF-1200-20140916, BF-1500-20140904, G-100-20140909, G-1300-20140905, G-1700-20140910, G-2600-20140904, LG-100-20140916, and LW-100-20140910) were collected during the 2014 groundwater monitoring event, representing approximately 9.0% (for samples analyzed for pCBSA) and 10% (for samples analyzed for VOCs) of the primary samples collected by AECOM (83 samples). Field duplicate results are reported along with the primary sample results in Tables 3 and 4.

The field duplicates were evaluated against the site-specific precision criterion of ≤30% relative percent difference (RPD) specified in the site-specific *Quality Assurance Project Plan* (QAPP) . Results of the evaluation are shown in Table C-2 of Appendix C and summarized as follows:

- VOCs: None of the results exceeded the 30% RPD criterion.
- pCBSA: None of the results exceeded the 30% RPD criterion.

3.6.4 Matrix Spike/Matrix Spike Duplicates

A total of 10 MS/MSD samples were collected during the 2014 baseline groundwater monitoring event, representing approximately 12% of the primary samples. The analytical laboratories supplemented these 10 samples as necessary to comply with laboratory requirements for MS/MSD analysis (i.e., minimum 1 in 20 samples analyzed). The MS/MSD samples were spiked with known concentrations of target compounds and analyzed along with the primary samples. The MS/MSD results were evaluated against the control limits for detection of the target compounds as shown in the laboratory reports provided in Appendix B, including percent recoveries (%R) for the MS and MSD samples and RPD for the MS/MSD sample pairs. Results of the evaluation are shown in Table C-3 of Appendix C and summarized as follows:

- VOCs: 16 of the 323 MS/MSD results exceeded the %R control limits and/or RPD criterion.
- pCBSA: 2 of 10 results exceeded the %R control limits.

Where MS/MSD results exceeded the acceptance criteria, the primary sample results were qualified as estimated (J) if detected.

3.7 Data Validation

The groundwater data was validated in accordance with the site-specific QAPP, the *National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, 2008), and the *National Functional Guidelines for Inorganic Data Review* (USEPA, 2004), as applicable to the analytical methods used during the project. Data validation qualifiers were assigned to all definitive-level data that did not meet analytical and quality control criteria.

The groundwater data subjected to validation included 16 sample delivery groups (SDGs) from Calscience and 1 SDG from Test America. Full raw data packages were provided for 100% of the groundwater samples. Level III or Tier 2 validation review was performed on 100% of the 2014 groundwater samples. Level IV or Tier 3 validation review was performed on a minimum of 10% of the groundwater samples. The validation level associated with each groundwater sample and SDG is provided in Table C-1 of Appendix C. None of the analytical data collected by the Del Amo Superfund Site, Boeing, or ILM was validated by AECOM (i.e., validated separately).

A technical completeness of 100 percent for the data was achieved for this project. None of the data were qualified as rejected (R), three sample results were blank-qualified as non-detected (U), and 342 results (approximately 4.0 percent of the data) were qualified as estimated (J/UJ) in data validation for exceeding quality assurance objectives (QAOs) specified for precision, accuracy, representativeness, comparability, and completeness (PARCC) in the QAPP. Of the 4.0 percent that were qualified as estimated, 0.2 percent were due to matrix-related issues and 3.8 percent were due to exceeded laboratory accuracy and precision criteria. The data validation and data usability assessment results indicate the overall acceptable quality, accuracy, and precision of the definitive-level data for this project. Copies of the Data Quality Assessment and Data Validation Report are provided in Appendix C.

4 CONCLUSIONS

Changes in the hydraulic gradients and distribution of dissolved-phase chemicals were evaluated by the 2014 groundwater monitoring event. Although concentrations have increased or decreased in a small number of wells, the overall extent of MCB and pCBSA in the UBF, MBFC, Gage, and Lynwod Aquifers has not appreciably changed as compared to previous monitoring events. The dissolved MCB and pCBSA plumes have not grown in extent. This groundwater monitoring event will serve as the baseline for comparison against future events conducted following the start of TGRS operations. However, it should be noted that this was the first comprehensive monitoring event where all wells were sampled using low-flow methods. Macro-purge sampling methods were used in the past, and as noted in Section 3, some sampling results were inconsistent with the historical range.

The horizontal hydraulic gradients have not increased in any of aquifer units since the prior comprehensive monitoring event. The horizontal hydraulic gradients remain relatively small between 0.0002 and 0.0005 ft/ft in all aquifer units. Similarly, the vertical hydraulic gradients between aquifer units have not increased since the prior monitoring event.

5 RECOMMENDATIONS

A few of the results were inconsistent with historical range and five monitoring wells (three MBFC, two Gage) have been selected to be re-sampled to verify these results. No wells have been selected from the UBF or Lynwood Aquifers. Well LW-4 exhibited anomalous results, however this well was re-sampled in January 2014. The selected wells for re-sampling are as follows;

MBFC wells

- BF-11: Decreased from 5,600 µg/L to 6 µg/L MCB. This data is anomalous with surrounding well data.
- BF-15: Decreased from 9,900 µg/L to 690 µg/L MCB. This data is anomalous with surrounding well data.
- BF-20: Increased from 44 µg/L in 2012 to 1,400 µg/L in 2013 to 5,300 µg/L in 2014. This well is apart of the annual groundwater monitoring program for ILM.

Gage wells

- SWL0034: Decreased from 6,600 µg/L to 67 µg/L. This data is anomalous with surrounding well data.
- LG-02: Increased from 120 µg/L to 5,500 µg/L. This data is anomalous with the surrounding well data.

These wells will be sampling following the protocols used during the September 2014 Baseline Event and in accordance with the MACP. This event is tentatively scheduled to be conducted in late March 2015.

The first semi-annual groundwater sampling event was originally scheduled to occur in March 2015 but assumed that TGRS operations would be initiated by prior to the end of 2014. TGRS operations have not yet begun, and therefore, it is recommended that the first semi-annual groundwater sampling event be re-scheduled to occur in March 2016. Providing that TGRS operations are initiated by March 2015, this schedule will allow approximately six months of operations prior to the first annual sampling event. Accordingly, the first semi-annual sampling event would be re-scheduled for March 2016.

6 REFERENCES

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USEPA, 2014b — Approval of Montrose Proposed Change in Remedial Design Well Field letter, Montrose and Del Amo Superfund Sites, December 17.

TABLES

TABLE 1
Groundwater Level Measurements and Elevations
2014 Baseline Monitoring and Aquifer Compliance Report
Montrose Superfund Site
20201 S. Normandie Avenue, Los Angeles, California

Well	Northing	Easting	Screened Interval (feet bgs)	Depth to Groundwater from Reference Elevation (feet bgs)	Reference Elevation (feet bgs)	Water Level Elevation (feet msl)
UBF/Water Table Montrose-Owned Wells						
MW-1	1767001.0	6470666.0	63 - 73	53.05	42.77	-10.28
MW-2	1767431.0	6470241.0	66.7 - 76.7	59.02	48.73	-10.29
MW-3	1767425.0	6469733.0	64.4 - 74.4	57.80	47.41	-10.39
MW-4	1767689.0	6470127.0	64.9 - 74.9	57.00	46.69	-10.31
MW-5	1767602.0	6470682.0	61.5 - 72.5	55.24	44.95	-10.29
MW-6	1766917.0	6470220.0	65 - 80	55.94	45.68	-10.26
MW-7	1766911.0	6469647.0	65 - 80	57.48	47.42	-10.06
MW-8	1767946.0	6469440.0	65 - 80	65.11	55.29	-9.82
MW-9	1767929.0	6470407.0	66 - 81	60.75	50.47	-10.28
MW-10	1768042.0	6470937.0	62 - 77	53.43	43.20	-10.23
MW-11	1767320.0	6470889.0	62 - 77	52.98	42.69	-10.29
MW-12	1767319.0	6471289.0	61 - 76	50.46	40.17	-10.29
MW-13	1766908.0	6471218.0	62 - 77	52.82	42.34	-10.48
MW-14	1766629.0	6470964.0	58 - 73	53.41	43.12	-10.29
MW-16	1765848.0	6469761.0	59 - 76	51.39	41.31	-10.08
MW-17	1766685.0	6469336.0	65 - 81	58.10	48.18	-9.92
MW-19	1768538.0	6470722.0	63 - 79	56.76	46.65	-10.11
MW-20	1768459.0	6471636.0	57 - 73	NM	43.06	NM
MW-21	1767907.0	6471985.0	54 - 70	46.09	36.56	-10.26
MW-22	1765594.0	6470230.0	57 - 73	52.16	41.85	-10.31
MW-23	1765783.0	6472078.0	60 - 75	46.81	36.35	-10.46
MW-24	1765641.0	6471430.0	49 - 64	33.00	22.40	-10.60
MW-25	1764840.0	6471681.0	56 - 71	43.05	31.98	-11.07
MW-26	1765603.0	6470880.0	59 - 74	49.38	39.17	-10.21
MW-27	1768047.0	6471344.0	59 - 75	50.80	40.50	-10.30
MW-28	1767659.0	6471854.0	54-71	50.27	39.70	-10.57
MW-29	1766922.0	6471830.0	57 - 73	49.31	38.87	-10.44
MW-30	1766267.0	6471695.0	54 - 70	47.75	37.59	-10.16
MW-31	1767149.0	6469128.0	64.5 - 79.5	64.58	54.67	-9.91
UBE-1	1767467.0	6470255.0	60.7 - 90.7	59.71	49.35	-10.36
UBE-2	1767535.0	6470398.0	72 - 82	55.99	45.78	-10.21
UBE-3	1767304.0	6470373.0	68 - 88	55.34	44.86	-10.48
UBE-4	1767629.0	6470371.0	62 - 92	56.83	46.56	-10.27
UBE-5	1767347.0	6470514.0	75 - 85	57.89	47.42	-10.47
UBT-1	1767444.0	6470232.0	60 - 91	59.45	49.05	-10.40
UBT-2	1767437.0	6470246.0	50 - 91	59.61	49.19	-10.42
UBT-3	1767473.0	6470262.0	60 - 91	59.71	49.31	-10.40
UBI-1	1767598.0	6470093.0	45 - 90	56.63	46.47	-10.16
UBI-2	1767666.0	6470165.0	45 - 90	56.85	46.69	-10.16
UBA-EW-1	1767031.5	6470466.3	53-93	48.30	38.07	-10.23
UBA-EW-3	1766342.3	6470864.3	50-80	49.06	38.59	-10.47
MBFB-EW-1	1766640.5	6470927.1	62-77	48.20	37.75	-10.45
MBFB-OW-1	1767110.0	6468135.0	80 - 96	64.10	54.71	-9.39
UBF/Water Table Del Amo-Owned Wells						
SWL0049	1766313.8	6470999.2	42 - 62	43.00	32.50	-10.50
PZL0025	1766637.2	6472096.3	43.5 - 63.5	47.08	38.68	-8.40

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MBFC Montrose-Owned Wells						
BF-1	1767593.7	6469829.4	113.5 - 124	58.85	48.33	-10.52
BF-2	1767168.5	6470195.0	114 - 124.5	59.67	49.50	-10.17
BF-3	1767474.6	6470477.0	113.5 - 124	58.84	48.27	-10.57
BF-4	1767209.5	6470494.1	112 - 123	57.95	47.64	-10.31
BF-5	1767330.9	6471297.6	122 - 132	50.00	39.37	-10.63
BF-6	1766907.2	6471204.2	115 - 125	52.23	41.70	-10.53
BF-7	1766629.0	6470946.2	106 - 116	53.2	42.59	-10.61
BF-9	1767440.4	6470241.9	107 - 128	59.10	48.69	-10.41
BF-10	1765561.9	6473090.8	120 - 130	40.17	28.67	-11.50
BF-11	1763515.1	6472386.0	104 - 124	45.64	33.66	-11.98
BF-12	1764101.9	6473358.0	110 - 120	34.49	22.20	-12.29
BF-13	1766578.6	6473187.2	117 - 137	40.61	29.52	-11.09
BF-14	1765763.3	6472054.4	111 - 121	47.3	36.30	-11.00
BF-15	1765641.3	6471441.0	98 - 113	33.69	22.82	-10.87
BF-16	1763461.8	6471860.8	103 - 124	46.89	35.31	-11.58
BF-17	1763817.0	6473002.0	100 - 120	34.75	22.67	-12.08
BF-19	1768046.8	6471330.9	128 - 133	51.05	40.44	-10.61
BF-20	1766707.3	6469336.4	110 - 129	58.61	48.33	-10.28
BF-21	1764784.8	6470681.1	96 - 121	50.43	39.67	-10.76
BF-22	1763265.1	6471470.1	87 - 117	45.78	34.29	-11.49
BF-23	1766107.0	6472439.6	101 - 116	36.69	25.93	-10.76
BF-24	1764492.8	6472165.2	96 - 121	42.62	31.18	-11.44
BF-25	1762675.8	6473358.3	94 - 104	35.98	23.70	-12.28
BF-26	1762187.8	6473650.7	90 - 105	48.1	35.48	-12.62
BF-27	1762195.6	6473093.7	101 - 121	36.54	24.18	-12.36
BF-28	1762866.4	6474076.9	92 - 110	46.41	33.84	-12.57
BF-29	1764267.9	6470038.4	100 - 120	50.72	39.62	-11.10
BF-30	1762874.7	6470961.8	82 - 113	35.86	24.58	-11.28
BF-31	1763812.0	6469369.8	105 - 135	48.33	37.55	-10.78
BF-32A**	1765704.0	6468400.0	65 - 115	60.57	50.81	-9.76
BF-33**	1763047.0	6468187.0	60 - 100	46.50	35.98	-10.52
BF-34	1767699.0	6469469.0	106 - 126	66.01	55.54	-10.47
BF-35	1768012.0	6470273.0	105.5 - 126	60.92	50.34	-10.58
BF-36	1762458.0	6475580.0	111 - 126	48.09	34.65	-13.44
BF-IW-1	1767145.0	6468136.0	106.9 - 125	65.17	55.13	-10.04
BF-IW-2	1765087.0	6473751.0	61.5 - 144	33.68	21.43	-12.25
BF-EW-1	1766650.0	6470901.7	85 - 128	46.79	36.14	-10.65
BF-EW-2	1764201.3	6472152.8	69.1 - 125	34.89	23.27	-11.62
BF-EW-3	1764981.9	6471337.3	60-120	30.29	19.12	-11.17
BF-EW-4	1763305.7	6472464.8	66-126	40.33	28.42	-11.91
BF-EW-5	1767019.2	6470443.1	108-128	48.43	38.24	-10.19
BF-OW-1	1767110.0	6468135.0	110 - 122	64.41	54.63	-9.78
BF-OW-3	1764310.0	6472153.0	70 - 120	40.64	29.32	-11.32
BF-OW-4	1764290.0	6470639.0	138 - 173	52.21	41.20	-11.01
BF-OW-3	1764310.0	6472153.0	70 - 120	40.26	29.32	-10.94
BF-OW-4	1764290.0	6470639.0	138 - 173	52.05	41.20	-10.85
LBF-OW-2 #	1766656.0	6470924.0	135 - 137	52.97	41.80	-11.17
LBF-OW-3 #	1764310.0	6472153.0	134 - 136	42.11	29.34	-12.77
PZ-1	1763312.0	6471533.0	75 - 115	46.48	34.95	-11.53
PZ-2	1762195.0	6473139.0	65 - 115	37.02	24.72	-12.30
PZ-3	1762924.0	6474023.0	40 - 70	46.45	33.93	-12.52
MBFC Del Amo Owned Wells						
SWL0027	1765075.7	6473730.2	119.3 - 135	33.98	22.07	-11.91
SWL0033#	1766277.4	6472042.1	124.3 - 140	47.75	33.75	-14.00
SWL0058	1767036.5	6472006.6	118.1 - 127.7	30.12	40.67	-10.55
G-O2WC	1766325.0	6473073.3	80 - 90	37.91	26.85	-11.06

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Gage Aquifer Montrose-Owned Wells						
G-1	1767682.9	6470099.7	140.5 - 161	58.14	46.66	-11.48
G-2	1767087.9	6470673.7	155 - 175.5	55.11	43.26	-11.85
G-3	1767168.6	6470158.0	145.5 - 166	61.08	49.70	-11.38
G-4	1767331.8	6471310.6	154 - 194	51.72	39.70	-12.02
G-5	1766906.2	6471186.2	151 - 190	53.59	41.71	-11.88
G-6	1766628.9	6470964.2	149 - 190	54.36	42.53	-11.83
G-8	1765641.3	6471451.0	140 - 180	34.80	22.52	-12.28
G-9	1765575.9	6473090.9	171 - 213	41.70	28.58	-13.12
G-11	1766578.6	6473197.2	177 - 217	38.53	25.17	-13.36
G-12	1766143.1	6472427.7	158 - 198	38.62	25.85	-12.77
G-13	1765787.3	6472054.5	157 - 197	48.65	36.09	-12.56
G-14	1768040.9	6471292.9	155 - 195	52.65	40.62	-12.03
G-15	1766763.1	6469998.6	142 - 182	59.89	48.71	-11.18
G-16	1765629.6	6471049.9	145 - 185	49.20	37.10	-12.10
G-17	1766922.5	6472314.3	172 - 212	48.25	35.99	-12.26
G-18	1764836.3	6473238.4	161 - 201	34.85	21.70	-13.15
G-19A	1764749.0	6472438.1	160 - 200	48.11	35.23	-12.88
G-20	1767698.0	6469488.0	155 - 175	66.35	55.33	-11.02
G-21	1768012.0	6470519.0	149 - 169	59.46	47.67	-11.79
G-22	1763886.0	6473268.0	152 - 192	36.95	24.22	-12.73
G-23	1763657.0	6472398.0	148 - 178	47.41	34.83	-12.58
G-24	1764757.0	6470681.0	138.3 - 178.3	51.98	40.40	-11.58
G-25	1765603.0	6469340.0	124 - 164	56.67	46.06	-10.61
G-26	1763544.0	6470301.0	132 - 172	46.75	35.72	-11.03
G-27	1762885.0	6471795.0	124 - 164	36.51	24.52	-11.99
G-28	1762189.0	6473638.0	148 - 188	48.88	35.54	-13.34
G-29	1762931.0	6474905.0	157 - 197	49.97	35.42	-14.55
G-30	1763761.0	6468585.0	135 - 165	55.55	44.96	-10.59
G-31	1760760.0	6476041.0	145 - 175	52.92	36.60	-16.32
G-32	1762108.0	6476388.0	160 - 190	49.57	32.68	-16.89
G-33	1765698.0	6468401.0	143 - 173	60.65	50.14	-10.51
G-34	1760638.0	6473574.0	147 - 187	52.65	39.44	-13.21
G-35	1763463.0	6473727.9	150 - 190	44.62	32.07	-12.55
G-EW-1	1766669.0	6470895.0	144 - 198	47.74	35.89	-11.85
G-EW-2	1763875.0	6473281.0	146 - 176	32.20	19.42	-12.78
G-EW-3	1764290.0	6470596.0	135 - 173	47.87	36.30	-11.57
G-EW-4	1765619.7	6472157.3	160-200	46.02	33.19	-12.83
G-IW-1	1767186.0	6468136.0	138 - 163	60.35	49.80	-10.55
G-IW-2	1766760.0	6473365.0	173 - 214	41.75	28.18	-13.57
G-IW-3	1767693.7	6468014.8	144-194	57.25	46.76	-10.49
G-IW-4	1766816.9	6473296.6	175-215	41.96	28.60	-13.36
G-IW-5	1766643.3	6473398.5	170-210	40.61	27.24	-13.37
G-IW-7	1767503.5	6468137.5	140-195	60.15	49.61	-10.54
G-OW-1	1767110.0	6468135.0	140 - 185	65.14	54.80	-10.34
G-OW-3	1764310.0	6472153.0	145 - 155	41.98	29.32	-12.66
G-OW-4	1764290.0	6470639.0	138 - 173	52.84	41.20	-11.64
LG-1	1767038.0	6470673.0	188.5 - 209	54.94	43.26	-11.68
LG-2	1767319.0	6470380.0	185 - 205	56.20	44.61	-11.59

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Well	Northing	Easting	Screened Interval (feet bgs)	Depth to Groundwater from Reference Elevation (feet bgs)	Reference Elevation (feet bgs)	Water Level Elevation (feet msl)
Gage Del Almo-Owned Wells						
SWL0034	1766291.0	6472041.0	160-176	46.38	36.02	-10.36
SWL0026	1765084.7	6473735.3	195 - 210.8	35.75	22.47	-13.28
SWL0063	1767683.3	6472309.2	172.7 - 187.7	38.23	50.80	-12.57
Lynwood Aquifer Montrose-Owned Wells						
LW-01	1767335.0	6470378.0	230 - 250	66.49	45.02	-21.47
LW-02	1766910.0	6471266.0	232 - 252	63.55	42.07	-21.48
LW-03	1768041.0	6471311.0	238 - 259	62.00	40.33	-21.67
LW-04	1766629.0	6470913.0	225 - 245	64.10	42.64	-21.46
LW-05	1767675.0	6470116.0	230 - 250	67.68	46.25	-21.43
LW-06	1767580.0	6470682.0	235 - 255	65.65	44.25	-21.40
LW-07	1767188.0	6470176.0	230 - 250	69.99	48.68	-21.31

Notes:
*corrected for LNAPL
** Wells screened across more than one aquifer
# well is screened in the Lower Bellflower
Only wells gauged as part of the Montrose MACP are shown.
bgs below ground surface
msl mean sea level
TOC = Top of Casing
Horizontal Datum: North American Datum of 1983 (NAD83)
Vertical Datum: National Geodetic Vertical Datum of 1929 (NGVD29)

Table 2 Sampling Matrix
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Well and Sample Information						Laboratory Analysis Information	
						VOCs + FO	pCBSA
Schedule	Well	Sample Type	Field Sample	MS/ MSD	Location	8260B	Mod. 314.0
Day 1	--	TB	TB-20140903	--	--	X	--
Wednesday	--	EB	EB-20140903	--	--	X	X
9/3/2014	G-28	N	G-28-20140903	--	214th, E of Vermont	X	X
Lab SDG:	BF-28	N	BF-28-20140903	--	W Clarion, E of Vermont	X	X
14-09-0173	BF-27	N	BF-27-20140903	**X**	214th, W of Vermont	X	X
	SWL0027	N	SWL0027-20140903	--	AlpineVillage; Torr Blvd/Vermont	X	X
	G-18	N	G-18-20140903	--	Brody Ave, S of Torr Blvd	X	X
	SWL0026	N	SWL0026-20140903	--	AlpineVillage; Torr Blvd/Vermont	X	X
	G-19A	N	G-19A-20140903	--	Catalina, S of Torr Blvd	X	X
	BF-22	N	BF-22-20140903	--	212th, W of Royal	X	X
Day 2	--	TB	TB-20140904	--	--	X	--
Thursday	--	EB	EB-20140904	--	--	X	X
9/4/2014	G-32	N	G-32-20140904	--	Nicolle, S of W 214th	X	X
Lab SDG:	G-27	N	G-27-20140904	**X**	Clarion Dr, W of Budlong	X	X
14-09-0312	BF-25	N	BF-25-20140904	--	Doble & Clarion	X	X
	G-35	N	G-35-20140904	--	S Van Deene, S of Javelin	X	X
	G-29	N	G-29-20140904	--	Peace Apostlic Church	X	X
	MW-26	N	MW-26-20140904	**X**	Milton, E of Normandie	X	X
	BF-10	N	BF-10-20140904	--	New Hampshire, S of Milton	X	X
	G-9	N	G-9-20140904	--	New Hampshire, S of Milton	X	X
	G-26	N	G-26-20140904	--	211th, W of Brighton	X	X
		FD	G-2600-20140904	--		X	X
	G-24	N	G-24-20140904	--	Normandie IN - S of Tor Blvd	X	X
	BF-21	N	BF-21-20140904	--	Normandie IN - S of Tor Blvd	X	X
	BF-17	N	BF-17-20140904	--	New Hampshire, W of Javelin	X	X
	BF-15	N	BF-15-20140904	--	Milton, E of Kenwood	X	X
		FD	BF-1500-20140904	--		X	X
Day 3	--	TB	TB-20140905	--	--	X	--
Friday	--	EB	EB-20140905	--	--	X	X
9/5/2014	G-23	N	G-23-20140905	--	Berendo, N of 212th	X	X
	MW-23	N	MW-23-20140905	--	Budlong, N of Milton	X	X
Lab SDG	MW-24	N	MW-24-20140905	--	Milton, E of Kenwood	X	X
14-09-0448	MW-30	N	MW-30-20140905	--	Raymond, S of 204th	X	X
	MW-9	N	MW-9-20140905	--	GLJ	X	X
		FD	MW-900-20140905	--		X	X
	BF-14	N	BF-14-20140905	--	Budlong, N of Milton	X	X
	G-OW-3	N	G-OW-3-20140905	--	Royal, N of 210th	X	X
	G-13	N	G-13-20140905	--	Budlong, N of Milton	X	X
		FD	G-1300-20140905	--		X	X
	BF-16	N	BF-16-20140905	--	Budlong, N of 212th	X	X
	SWL0033	N	SWL0033-20140905	--	Budlong, S of 204th	X	X
	SWL0034	N	SWL0034-20140905	--	Budlong & 204th	X	X
	BF-24	N	BF-24-20140905	--	209th, E of Royal	X	X

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Montrose Superfund Site
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Well and Sample Information						Laboratory Analysis Information	
						VOCs + FO	pCBSA
Schedule	Well	Sample Type	Field Sample	MS/ MSD	Location	8260B	Mod. 314.0
Day 4	--	TB	TB-20140908	--	--	X	--
Monday	--	EB	EB-20140908	--	--	X	X
9/8/2014	BF-30	N	BF-30-20140908	--	Clarion Dr, E of Normandie	X	X
Lab SDG:	MW-10	N	MW-10-20140908	--	Francisco, E of Normandie	X	X
14-09-0556	BF-23	N	BF-23-20140908	--	Catalina, N of Milton	X	X
	MW-5	N	MW-5-20140908	--	Montrose	X	X
	G-12	N	G-12-20140908	--	Catalina, N of Milton	X	X
	BF-3	N	BF-3-20140908	--	Montrose	X	X
Lab SDG:	MWC021 [B]	N	MWC021-20140908	--	FMR Boeing Property	--	X
14-09-0555	PZL0025 [A]	N	PZL0025-20140908	--	WM	--	X
	MWC017 [B]	N	MWC017-20140908	--	FMR Boeing Property	--	X
	CMW001 [B]	N	CMW001-20140908	--	SunRider	--	X
	CMW002 [B]	N	CMW002-20140908	--	GLJ	--	X
Lab SDG:	--	TB	TB-20140908- B	--	--	X	--
14-09-0554	MW-3 [C]	N	MW-3-20140908	--	Montrose	FO only	X
	BF-1 [C]	N	BF-1-20140908	--	Montrose	FO only	X
		FD	BF-100-20140908	--	Montrose	FO only	X
	G-20 [C]	N	G-20-20140908	--	Frito Lay	FO only	X
	BF-34 [C,D]	N	BF-34-20140908	--	Frito Lay	FO only	--
	G-OW-1 [C,D]	N	G-OW-3-20140908	--	MMB	FO only	--
	BF-OW-1 [C]	N	BF-OW-1-20140908	--	MMB	FO only	X
	MBFB-OW-1 [C,D]	N	MBFB-OW-1-20140908	--	MMB	FO only	--
	MW-8 [C]	N	MW-8-20140908	--	Verizon	FO only	X
	MW-31 [C]	N	MW-31-20140908	--	Frito Lay	FO only	X
	BL-13C [C]	N	BL-13C-20140908	--	Frito Lay	FO only	X
Day 5	--	TB	TB-20140909	--	--	X	--
Tuesday	--	EB	EB-20140909	--	--	X	X
9/9/2014	MW-19	N	MW-19-20140909	--	SunRider	X	X
Lab SDG:	MW-22	N	MW-22-20140909	--	Prologis II ,	X	X
14-09-0658	MW-16	N	MW16-20140909	--	RockTenn	X	X
	G-25	N	G-25-20140909	--	Denker, S of 206th	X	X
	BF-5	N	BF-5-20140909	--	Jon St, E of Normandie	X	X
	MW-6	N	MW-6-20140909	--	LADWP-W	X	X
	G-4	N	G-4-20140909	--	Jon St, E of Normandie	X	X
	G-8	N	G-8-20140909	--	Milton, E of Kenwood	X	X
	G-3	N	G-3-20140909	--	Montrose	X	X
	MW-11	N	MW-11-20140909	--	Jon St, E of Normandie	X	X
	G-1	N	G-1-20140909	--	Montrose	X	X
		FD	G-100-20140909	--		X	X
	G-02WC [A]	N	G-02WC-20140909	--	Catalina, N of Milton	--	X
	MW-12	N	MW-12-20140909	--	Jon St, E of Normandie	X	X
	BF-11	N	BF-11-20140909	--	Berendo, N of 212th	X	X
	MW-4	N	MW-4-20140909	--	Montrose	X	X
	BF-4	N	BF-4-20140909	--	Montrose	X	X
Lab SDG:	--	TB	TB-20140909-B	--		FO only	--
14-09-0659	MW-17 [C,D]	N	MW-17-20140909	--	Denker; S of Del Amo	FO only	--
	BF-20 [C]	N	BF-20-20140909	--	Denker; S of Del Amo	FO only	X
	MW-7 [C,D]	N	MW-7-20140909	--	LADWP-W	FO only	--

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Well and Sample Information						Laboratory Analysis Information	
						VOCs + FO	pCBSA
Schedule	Well	Sample Type	Field Sample	MS/ MSD	Location	8260B	Mod. 314.0
Day 6	--	TB	TB-20140910	--		X	--
Wednesday	--	EB	EB-20140910	--		X	X
9/10/2014	SWL0063 [A]	N	SWL0063-20140910	--	Del Amo Superfund	--	X
Lab SDG:	LW-2	N	LW-2-20140910	**X**	LADWP-E	X	X
14-09-0760	LW-1	N	LW-1-20140910	--	Montrose	X	X
		FD	LW-100-20140910	--		X	X
	BF-31	N	BF-31-20140910	**X**	Denker, S of 209th	X	X
	G-17	N	G-17-20140910	--	LADWP-E	X	X
		FD	G-1700-20140910	--		X	X
	G-5	N	G-5-20140910	--	LADWP-E	X	X
	G-2	N	G-2-20140910	--	Montrose	X	X
	BF-9	N	BF-9-20140910	--	Montrose	X	X
	BF-2	N	BF-2-20140910	--	Montrose	X	X
	MW-1	N	MW-1-20140910	--	Montrose	X	X
	MW-2	N	MW-2-20140910	--	Montrose	X	X
Day 7	--	TB	TB-20140911	--	--	X	--
Thursday	--	EB	EB-20140911	--	--	X	X
9/11/2014	LW-5	N	LW-5-20140911	--	Montrose	X	X
Lab SDG:	G-33	N	G-33-20140911	--	206th , E of Western	X	X
14-09-0943	G-30	N	G-30-20140911	--	Harvard, N of 213th	X	X
	G-21	N	G-21-20140911	**X**	Francisco, W of Normandie	X	X
	MW-28 [A]	N	MW-28-20140911	--	Prologis	--	X
	SWL0058 [A]	N	SWL0058-20140911	--	Prologis	--	X
	BF-35	N	BF-35-20140911	--	Francisco, W of Normandie	X	X
Day 8	--	TB	TB-20140915	--	--	X	--
Monday	--	EB	EB-20140915	--	--	X	X
9/15/2014	LW-7	N	LW-7-20140915	--	Montrose	X	X
Lab SDG:	BF-32A	N	BF-32A-20140915	--	206th, E of Western	X	X
14-09-1187	BF-19	N	BF-19-20140915	--	Francisco, E of Normandie	X	X
	G-14	N	G-14-20140915	--	Francisco, E of Normandie	X	X
	G-11	N	G-11-20140915	--	Del Amo, W of Vermont	X	X
Day 9	--	TB	TB-20140916	--	--	X	--
Tuesday	--	EB	EB-20140916	--	--	X	X
9/16/2014	G-16	N	G-16-20140916	--	Milton, E of Normandie	X	X
Lab SDG:	LG-1	N	LG-1-20140916	--	Montrose	X	X
14-09-1264		FD	LG-100-20140916	--		X	X
	G-15	N	G-15-20140916	--	Farmer Brothers	X	X
	LG-2	N	LG-2-20140916	--	Montrose	X	X
	BF-29	N	BF-29-20140916	--	Halldale, N of 209th	X	X
	BF-12	N	BF-12-20140916	--	Linley, E of Doble	X	X
		FD	BF-1200-20140916	--		X	X

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Well and Sample Information						Laboratory Analysis Information	
						VOCs + FO	pCBSA
Schedule	Well	Sample Type	Field Sample	MS/ MSD	Location	8260B	Mod. 314.0
Day 10	--	TB	TB-20140918	--	--	X	--
9/18/2014	--	EB	EB-20140918	--	--	X	X
Lab SDG: 14-09-1462	LW-6	N	LW-6-20140918	--	Montrose	X	X
Day 11	--	TB	TB-20140919	--	--	X	--
9/19/2014	--	EB	EB-20140919	--	--	X	X
Lab SDG 14-09-1606	LW-4	N	LW-4-20140919	--	WM Triangle	X	X
Day 12	--	TB	TB-20140929	--	--	X	--
9/29/2014 Lab SDGs: 440-89327-1 14-09-2424	SWL0049	N	SWL0049-20140929	--	204th, E of Normandie	X	X

Notes:

A	Sample collected by URS on behalf of Shell, split sample collected for pCBSA only
B	Sample collected by Avocet on behalf of Boeing, split sample collected for pCBSA only
C	Sample collected by Tetra Tech on behalf of ILM, split sample collected for pCBSA and Fuel Oxygenates
D	Montrose well sampled by Tetra Tech, not apart of Montrose MACP. Split sample collected for FO only
EB	equipment blank
FD	field duplicate
FO	Fuel Oxygenates
MCB	chlorobenzene
MS	matrix spike
MSD	matrix spike duplicate
N	normal environmental sample
SDG	Sample Data Group
VOCs	Volatile Organic Compounds
TB	trip blank

TABLE 3
Summary of VOC Laboratory Results
2014 Baseline Monitoring and Aquifer Compliance Report
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Well	Date	chlorobenzene	tetrachloroethene (PCE)	trichloroethene (TCE)	1,4-dichlorobenzene	benzene	bromodichloromethane	chloroform	trihalomethanes, total	methylene chloride	tert-butanol (TBA)	1,2-dichlorobenzene	1,3-dichlorobenzene	1,1-dichloroethane	1,2-dichloroethane	1,1-dichloroethene	cis-1,2-dichloroethene	1,2-dichloropropane	ethylbenzene	naphthalene	toluene	1,1,2-trichloroethane	1,2,3-trichloropropane	1,2,4-trimethylbenzene	vinyl chloride	xylenes, total
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	ISGS	70	5	5	5	1	NP	100	NP	5[a]	NP	600	17	5	0.5	6	6	5	700	6.2	150	5	NP	12	0.5	1750
UBF/Water Table Montrose-Owned Wells																										
MW-1	9/10/2014	**100,000**	**1,300**	**180 J**	<250	**2,400**	<250	**13,000**	**13,000**	<500	<5,000	<250	<250	<250	**120 J**	<250	<250	<250	<250	<500 (UJ)	<250	<250	<500	<250	<250	<250
MW-2	9/10/2014	**350,000**	<1,000	<1,000	<1,000	<1,000	<1,000	**31,000**	**31,000**	<2,000	<20,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<2,000 (UJ)	<1,000	<1,000	<2,000	<1,000	<1,000	<1,000
MW-3	9/8/2014	<0.17	**110**	**140**	<0.43	<0.14	<0.21	**350**	**350**	<0.64	--	<0.46	<0.40	**1.5**	<0.24	**40**	**0.59 J**	<0.42	<0.14	<2.5	<0.24	<0.38	<0.64	<0.36	<0.30	<0.30
MW-3	9/8/2014	--	--	--	--	--	--	--	--	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	9/9/2014	**960**	**94**	**510**	<10	<10	<10	**3,200**	**3,200**	<20	<200	<10	<10	<10	<10	**17**	<10	<10	<10	<20 (UJ)	<10	<10	<20	<10	<10	<10
MW-5	9/8/2014	**19**	**170**	**3.3**	<2.5	<2.5	<2.5	**1,100**	**1,100**	<5.0	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0 (UJ)	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5
MW-6	9/9/2014	<20	**6,100**	**200**	<20	<20	<20	**710**	**710**	<40	<400	<20	<20	**15 J**	<20	**36**	**35**	<20	<20	<40 (UJ)	<20	<20	<40	<20	<20	<20
MW-8	9/8/2014	<0.17	<0.39	**2.8**	<0.43	<0.14	<0.21	**1.3**	**1.3**	<0.64	--	<0.46	<0.40	<0.28	<0.24	<0.43	<0.48	<0.42	<0.14	<2.5	<0.24	<0.38	<0.64	<0.36	<0.30	<0.30
MW-8	9/8/2014	--	--	--	--	--	--	--	--	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	9/5/2014	<10	**43**	**5.4 J**	<10	<10	<10	**3,000**	**3,000**	<20	<200	<10	<10	<10	<10	<10	<10	<10	<10	<20 (UJ)	<10	<10	<20	<10	<10	<10
	09/05/2014[a]	<10	**43**	**6.2 J**	<10	<10	<10	**3,000**	**3,000**	<20	<200	<10	<10	<10	<10	<10	<10	<10	<10	<20 (UJ)	<10	<10	<20	<10	<10	<10
MW-10	9/8/2014	<0.50	**2.8**	**10**	<0.50	<0.50	<0.50	**11**	**11**	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
MW-11	9/9/2014	**320**	**14**	**1.1**	<1.0	**0.66 J**	<1.0	**0.46 J**	**0.46 J**	<2.0	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0 (UJ)	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
MW-12	9/9/2014	**650**	<2.0	<2.0	**1.7 J**	**4.7**	<2.0	<2.0	<2.0	<4.0	<40	<2.0	<2.0	<2.0	**15**	<2.0	<2.0	<2.0	<2.0	<4.0 (UJ)	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0
MW-16	9/9/2014	<0.50	**13**	**300**	<0.50	<0.50	<0.50	**5.2**	**5.2**	<1.0	<10	<0.50	<0.50	<0.50	<0.50	**0.35 J**	**17**	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
MW-17	9/9/2014	--	--	--	--	--	--	--	--	--	**8.2 J**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-19	9/9/2014	<0.50	**0.30 J**	**3.9**	<0.50	<0.50	<0.50	**21 (J)**	**21 (J)**	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
MW-22	9/9/2014	<0.50	**0.32 J**	**2.0**	<0.50	<0.50	<0.50	**18**	**18**	<1.0	<10	<0.50	<0.50	<0.50	<0.50	**0.31 J**	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	**68**	**0.75 J**	<0.50	<0.50	<0.50
MW-23	9/5/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.76**	**0.76**	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
MW-24	9/5/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.55**	**0.55**	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
MW-26	9/4/2014	<0.50	**0.26 J**	<0.50	<0.50	<0.50	<0.50	**0.32 J**	**0.32 J**	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
MW-30	9/5/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.27 J**	**0.27 J**	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
MW-31	9/8/2014	**3.7**	**1.8**	<0.37	<0.43	**2.0**	<0.21	**3.4**	**3.4**	<0.64	--	<0.46	<0.40	<0.28	**1.4**	<0.43	<0.48	<0.42	<0.14	<2.5	<0.24	<0.38	<0.64	<0.36	<0.30	<0.30
MW-31	9/8/2014	--	--	--	--	--	--	--	--	--	**4.7 J**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
UBF/Water Table Del Amo-Owned Wells																										
PZL0025	9/8/2014	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<10	--	<1.0	<1.0	<1.0	**3.5**	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<5.0	<1.0	<0.50	<1.0
SWL0049	9/30/2014	**8,700**	**250**	**140**	**28**	**100**	<10	<10	<10	<40	<200	**12**	<10	<10	**140**	<10	<10	<10	**7.6 J**	<10	<10	<10	<40	<10	<10	<20
SWL0049	10/31/2014	**6,200**	**150**	**120**	**19**	**63**	<5.0	<5.0	<5.0	<20	**52 J**	<5.0	<5.0	<5.0	**270**	<5.0	**5.2**	<5.0	**7.2**	<5.0	**2.5 J**	<5.0	<20	<5.0	<5.0	<10
MBFC Montrose-Owned Wells																										
BF-1	9/8/2014	**4.1**	<0.39	<0.37	<0.43	<0.14	<0.21	<0.46	<0.46	**1.1 J**	--	<0.46	<0.40	<0.28	<0.24	<0.43	**2.6**	<0.42	<0.14	<2.5	<0.24	<0.38	<0.64	<0.36	<0.30	<0.30
BF-1	9/8/2014	--	--	--	--	--	--	--	--	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/08/2014[a]	--	--	--	--	--	--	--	--	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BF-2	9/10/2014	**10,000**	<25	<25	**24 J**	<25	<25	**12 J**	**12 J**	<50	<500	<25	<25	<25	<25	<25	<25	<25	<25	<50 (UJ)	<25	<25	<50	<25	<25	<25
BF-3	9/8/2014	**1,500**	<4.0	**650**	<4.0	**6.6**	<4.0	<4.0	<4.0	<8.0	<80	<4.0	<4.0	<4.0	<4.0	**3.0 J**	<4.0	<4.0	<4.0	<8.0 (UJ)	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0
BF-4	9/9/2014	**550**	**0.47 J**	**2.5**	**0.81 J**	**1.1**	<1.0	**1.4**	**1.4**	<2.0	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0 (UJ)	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
BF-5	9/9/2014	**0.19 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
BF-9	9/10/2014	**12,000**	<40	**36 J**	<40	<40	<40	**930**	**930**	<80	<800	<40	<40	<40	<40	<40	<40	<40	<40	<80 (UJ)	<40	<40	<80	<40	<40	<40

TABLE 3
Summary of VOC Laboratory Results
2014 Baseline Monitoring and Aquifer Compliance Report
Montrose Superfund Site
20201 S. Normandie Avenue, Los Angeles, California

Well	Date	chlorobenzene	tetrachloroethene (PCE)	trichloroethene (TCE)	1,4-dichlorobenzene	benzene	bromodichloromethane	chloroform	trihalomethanes, total	methylene chloride	tert-butanol (TBA)	1,2-dichlorobenzene	1,3-dichlorobenzene	1,1-dichloroethane	1,2-dichloroethane	1,1-dichloroethene	cis-1,2-dichloroethene	1,2-dichloropropane	ethylbenzene	naphthalene	toluene	1,1,2-trichloroethane	1,2,3-trichloropropane	1,2,4-trimethylbenzene	vinyl chloride	xylenes, total
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	ISGS	70	5	5	5	1	NP	100	NP	5[a]	NP	600	17	5	0.5	6	6	5	700	6.2	150	5	NP	12	0.5	1750
BF-10	9/4/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
BF-11	9/9/2014	**6.1**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
BF-12	9/16/2014	**2,300**	<5.0	<5.0	**4.3 J**	**3.3 J**	<5.0	<5.0	<5.0	<10	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10 (UJ)	<5.0	<5.0	<10	<5.0	<5.0	<5.0
	09/16/2014[a]	**2,300**	<5.0	<5.0	**4.4 J**	<5.0	<5.0	<5.0	<5.0	<10	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10 (UJ)	<5.0	<5.0	<10	<5.0	<5.0	<5.0
BF-14	9/5/2014	**41**	**0.34 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
BF-15	9/4/2014	**690**	<2.0	**1.3 J**	**2.4**	**1.3 J**	<2.0	<2.0	<2.0	<4.0	<40	<2.0	<2.0	<2.0	**1.6 J**	<2.0	<2.0	<2.0	<2.0	<4.0 (UJ)	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0
BF-16	9/5/2014	**320**	<1.0	<1.0	**0.79 J**	<1.0	<1.0	**0.73 J**	**0.73 J**	<2.0	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0 (UJ)	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
BF-17	9/4/2014	**4,900**	<12	<12	**14**	**13**	<12	<12	<12	<25	<250	<12	<12	<12	**220**	<12	<12	<12	<12	<25 (UJ)	<12	<12	<25	<12	<12	<12
BF-19	9/15/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
BF-20	9/9/2014	**5,300**	<7.7	**16 J**	**15 J**	**3.6 J**	<4.1	<9.2	<9.2	<13	--	<9.1	<8.0	<5.6	<4.8	<8.6	<9.5	<8.5	<2.8	<50	<4.7	<7.7	<13	<7.2	<6.0	<6.0
	09/09/2014[a]	**5,000**	<7.7	**19 J**	**14 J**	**4.3 J**	<4.1	<9.2	<9.2	<13	--	<9.1	<8.0	<5.6	<4.8	<8.6	<9.5	<8.5	<2.8	<50	<4.7	<7.7	<13	<7.2	<6.0	<6.0
BF-20	9/9/2014	--	--	--	--	--	--	--	--	--	<400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BF-21	9/4/2014	**240**	<0.50	<0.50	**0.49 J**	**0.68**	<0.50	**0.59**	**0.59**	<1.0	<10	<0.50	<0.50	<0.50	**1.3**	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
BF-22	9/3/2014	**4.6**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.31 J**	**0.31 J**	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
BF-23	9/8/2014	**0.16 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
BF-24	9/5/2014	**2,200**	<5.0	<5.0	**4.4 J**	**38**	<5.0	<5.0	<5.0	<10	<100	<5.0	<5.0	<5.0	**320**	<5.0	<5.0	**10**	**32**	<10 (UJ)	<5.0	<5.0	<10	**3.8 J**	<5.0	<5.0
BF-25	9/4/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
BF-27	9/3/2014	**0.66**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 (UJ)	<0.50 (UJ)	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
BF-28	9/3/2014	**0.48 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
BF-29	9/16/2014	**0.62**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	**0.39 J**	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
BF-30	9/8/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
BF-31	9/10/2014	<0.50 (U)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	**1.8**	<0.50	<0.50	**0.50**	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
BF-32A	9/15/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.56**	**0.56**	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
BF-35	9/11/2014	**1,200**	<4.0	**1,500**	**4.0 J**	<4.0	<4.0	<4.0	<4.0	<8.0	<80	<4.0	<4.0	<4.0	<4.0	**12**	**22**	<4.0	<4.0	<8.0 (UJ)	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0
BF-OW-1	9/8/2014	**20**	<0.39	**1.3**	<0.43	**0.44 J**	<0.21	<0.46	<0.46	<0.64	--	<0.46	<0.40	<0.28	<0.24	<0.43	**0.87 J**	<0.42	<0.14	<2.5	**0.46 J**	<0.38	<0.64	<0.36	<0.30	<0.30
BF-OW-1	9/8/2014	--	--	--	--	--	--	--	--	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MBFC Del Amo-Owned Wells																										
SWL0027	9/3/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
SWL0033	9/5/2014	**6,300**	<20	<20	**17 J**	**33**	<20	<20	<20	<40	<400	<20	<20	<20	**8.3 J**	<20	<20	<20	<20	<40 (UJ)	<20	<20	<40	<20	<20	<20
SWL0058	9/5/2014	**21**	**3.5**	**21 (J)**	**0.55 J**	<0.50	<1.0	<1.0	<1.0	<10	--	<1.0	<1.0	<1.0	**5.9**	**0.73 J**	**0.85 J**	<1.0	<1.0	<10	**0.38 J**	<1.0	<5.0	<1.0	<0.50	<1.0
G-02WC	9/4/2014	**180**	<1.0	<1.0	**0.68 J**	**0.39 J**	<1.0	<1.0	<1.0	<10	--	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<10	**0.80 J**	<1.0	<5.0	<1.0	<0.50	<1.0
MBFC Boeing-Owned Wells																										
CMW001	9/8/2014	**7,800**	<5.0	**8.0 J**	**12 J**	**40**	<5.0	<5.0	<5.0	<18	<100	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	<5.0	<5.0	<5.0	<5.0	<5.0	<10
CMW002	9/8/2014	**48,000**	<25	**82 J**	**41 J**	**160**	<25	**2,100**	**2,100**	<88	<500	<50	<25	<25	<25	<25	<25	<25	<25	--	<25	<25	<25	<25	<25	<50
MWC017	9/8/2014	**5.0**	<0.25	**110**	<0.25	<0.25	<0.25	**0.28 J**	**0.28 J**	<0.88	<5.0	<0.50	<0.25	<0.25	<0.25	**30**	**200**	<0.25	<0.25	--	<0.25	<0.25	<0.25	<0.25	**29**	<0.50
MWC021	9/8/2014	<0.25	**0.71 J**	**15**	<0.25	<0.25	<0.25	**0.76 J**	**0.76 J**	<0.88	<5.0	<0.50	<0.25	**0.87 J**	<0.25	**0.48 J**	**6.0**	<0.25	<0.25	--	<0.25	<0.25	<0.25	<0.25	<0.25	<0.50

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Well	Date	chlorobenzene	tetrachloroethene (PCE)	trichloroethene (TCE)	1,4-dichlorobenzene	benzene	bromodichloromethane	chloroform	trihalomethanes, total	methylene chloride	tert-butanol (TBA)	1,2-dichlorobenzene	1,3-dichlorobenzene	1,1-dichloroethane	1,2-dichloroethane	1,1-dichloroethene	cis-1,2-dichloroethene	1,2-dichloropropane	ethylbenzene	naphthalene	toluene	1,1,2-trichloroethane	1,2,3-trichloropropane	1,2,4-trimethylbenzene	vinyl chloride	xylenes, total
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	ISGS	70	5	5	5	1	NP	100	NP	5[a]	NP	600	17	5	0.5	6	6	5	700	6.2	150	5	NP	12	0.5	1750
Gage Aquifer Montrose-Owned Wells																										
G-1	9/9/2014	**7.6**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
	09/09/2014[a]	**7.9**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-2	9/10/2014	**3,400**	<10	<10	<10	**7.7 J**	<10	<10	<10	<20	<200	<10	<10	<10	<10	<10	<10	<10	<10	<20 (UJ)	<10	<10	<20	<10	<10	<10
G-3	9/9/2014	**32**	**1.2**	**0.37 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	**9.3 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-4	9/9/2014	**39**	<0.50	**11**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	**9.4**	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-5	9/10/2014	**3,000**	<10	<10	<10	**11**	<10	<10	<10	<20	<200	<10	<10	<10	<10	<10	<10	<10	<10	<20 (UJ)	<10	<10	<20	<10	<10	<10
G-8	9/9/2014	**100**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-9	9/4/2014	**360**	<0.50	<0.50	<0.50	**2.1**	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-11	9/15/2014	**3.5**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	**13**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-12	9/8/2014	**2,600**	<5.0	**3.8 J**	<5.0	**25**	<5.0	<5.0	<5.0	<10	<100	<5.0	<5.0	<5.0	**3.0 J**	<5.0	<5.0	<5.0	<5.0	<10 (UJ)	<5.0	<5.0	<10	<5.0	<5.0	<5.0
G-13	9/5/2014	**900**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0 (UJ)	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5
	09/05/2014[a]	**930**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0 (UJ)	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5
G-14	9/15/2014	<0.50	<0.50	**3.8**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	**0.33 J**	**65**	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-15	9/16/2014	**5.9**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-16	9/16/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-17	9/10/2014	**150**	**0.24 J**	**20**	<0.50	**1.3**	<0.50	<0.50	<0.50	<1.0	**6.8 J**	<0.50	<0.50	<0.50	**5.2**	**0.84**	**5.3**	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	**0.29 J**	<0.50
	09/10/2014[a]	**160**	**0.22 J**	**19**	<0.50	**1.2**	<0.50	<0.50	<0.50	<1.0	**4.6 J**	<0.50	<0.50	<0.50	**5.3**	**0.88**	**5.2**	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	**0.27 J**	<0.50
G-18	9/3/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-19A	9/3/2014	**110**	<0.50	<0.50	<0.50	**0.62**	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-20	9/8/2014	**1.7**	<0.39	<0.37	<0.43	<0.14	<0.21	<0.46	<0.46	**0.89 J**	--	<0.46	<0.40	<0.28	<0.24	<0.43	<0.48	<0.42	<0.14	<2.5	<0.24	<0.38	<0.64	<0.36	<0.30	<0.30
G-20	9/8/2014	--	--	--	--	--	--	--	--	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G-21	9/11/2014	**18**	<0.50	**380**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	**2.2**	**0.72**	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-23	9/5/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-24	9/4/2014	**1,100**	<2.5	<2.5	**10**	**1.7 J**	<2.5	<2.5	<2.5	<5.0	<50	**1.7 J**	<2.5	<2.5	**4.4**	<2.5	<2.5	<2.5	<2.5	<5.0 (UJ)	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5
G-25	9/9/2014	**40**	<0.50	**0.69**	**0.38 J**	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	**7.1**	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-26	9/4/2014	**84**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
	09/04/2014[a]	**87**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-27	9/4/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-28	9/3/2014	**0.94**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-29	9/4/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-30	9/11/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	**0.34 J**	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-32	9/4/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-33	9/11/2014	**2.3**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	**0.40 J**	<0.50	<0.50	<0.50	**3.3**	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-35	9/4/2014	**0.31 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	**3.5**	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
G-OW-3	9/5/2014	**320**	<1.0	<1.0	<1.0	**5.4**	<1.0	<1.0	<1.0	<2.0	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0 (UJ)	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
LG-1	9/16/2014	**8.7**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
	09/16/2014[a]	**8.1**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
LG-2	9/16/2014	**5,500**	<5.0	<5.0	**3.3 J**	<5.0	<5.0	<5.0	<5.0	<10	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10 (UJ)	<5.0	<5.0	<10	<5.0	<5.0	<5.0

TABLE 3
Summary of VOC Laboratory Results
2014 Baseline Monitoring and Aquifer Compliance Report
Montrose Superfund Site
20201 S. Normandie Avenue, Los Angeles, California

Well	Date	chlorobenzene	tetrachloroethene (PCE)	trichloroethene (TCE)	1,4-dichlorobenzene	benzene	bromodichloromethane	chloroform	trihalomethanes, total	methylene chloride	tert-butanol (TBA)	1,2-dichlorobenzene	1,3-dichlorobenzene	1,1-dichloroethane	1,2-dichloroethane	1,1-dichloroethene	cis-1,2-dichloroethene	1,2-dichloropropane	ethylbenzene	naphthalene	toluene	1,1,2-trichloroethane	1,2,3-trichloropropane	1,2,4-trimethylbenzene	vinyl chloride	xylenes, total
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	ISGS	70	5	5	5	1	NP	100	NP	5[a]	NP	600	17	5	0.5	6	6	5	700	6.2	150	5	NP	12	0.5	1750
Gage Aquifer Del Amo-Owned Wells																										
SWL0026	9/3/2014	**0.73**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
SWL0034	9/5/2014	**67**	<0.50	**1.4**	**0.52**	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	**0.28 J**	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
SWL0063	9/10/2014	<1.0	**0.58 J**	**92**	<1.0	**35**	<1.0	<1.0	<1.0	<10	--	<1.0	<1.0	**0.32 J**	<0.50	**2.7**	**11**	<1.0	<1.0	<10	**0.57 J**	<1.0	<5.0	<1.0	**0.44 J**	<1.0
Gage Aquifer ILM-Owned Well																										
BL-13C	9/8/2014	**270**	<0.39	<0.37	**0.65 J**	**0.24 J**	<0.21	<0.46	<0.46	**0.98 J**	--	<0.46	<0.40	<0.28	<0.24	<0.43	<0.48	<0.42	<0.14	<2.5	<0.24	<0.38	<0.64	<0.36	<0.30	<0.30
BL-13C	9/8/2014	--	--	--	--	--	--	--	--	--	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lynwood Aquifer Montrose-Owned Wells																										
LW-1	9/10/2014	**3.0**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
	09/10/2014[a]	**3.4**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
LW-2	9/10/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
LW-4	9/19/2014	**4.4**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
	1/13/2015	**4.4**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	14 U	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
LW-5	9/11/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
LW-6	9/18/2014	<0.50	<0.50 (UJ)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50
LW-7	9/15/2014	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0 (UJ)	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50

Notes:
Analytes not shown here were not detected in wells at concentrations greater than laboratory reporting limits unless noted below.
Samples were analyzed using EPA Method 8260B.
[a] Duplicate Sample
[b] Confirmation Sample
[c] LW-4 was re-sampled on 1-13-2015 using macro-purging sampling methods.
= Exceeds ISGS
Total Trihalomethanes are Bromoform, Chloroform, Dibromochloromethane, and Bromodichloromethane.

<	less than
µg/L	micrograms per liter
CDPH	California Department of Public Health
ISGS	In Situ Groundwater Standard as listed as Table 9-1 in the *Record of Decision for the Dual Groundwater Operable Unit, Montrose and Del Amo Superfund Sites* (EPA, 1999)
MDL	method detection limit
NP	none promulgated
RL	reporting limit
EPA	United States Environmental Protection Agency

Laboratory-Assigned Qualifier
J Estimated value. Analyte detected at a level less than the RL and greater than or equal to the MDL. The user of this data should be aware that this data is of limited reliability.

Data Validation Qualifiers
(J) Estimated value.
(U) stimated value. Blank contamination: indicates possible high bias and/or false positives.
(UJ) Reporting limit estimated.

Table 4
Summary of pCBSA Laboratory Results
2014 Groundwater Monitoring Report
Montrose Superfund Site
20201 S. Normandie Avenue, Los Angeles, California

Well	Date	pCBSA
	Units	µg/L
UFB/Water Table Montrose-Owned Wells		
MW-1	9/10/2014	**500,000**
MW-2	9/10/2014	**520,000**
MW-3	9/8/2014	**21**
MW-4	9/9/2014	**1,200**
MW-5	9/8/2014	**53**
MW-6	9/9/2014	**3.2 J**
MW-8	9/8/2014	**75**
MW-9	9/5/2014	**2.6 J**
	09/05/2014[(a)]	<5.0
MW-10	9/8/2014	**170**
MW-11	9/9/2014	**240**
MW-12	9/9/2014	**130**
MW-16	9/9/2014	<5.0
MW-19	9/9/2014	**40**
MW-22	9/9/2014	<5.0
MW-23	9/5/2014	**5.7**
MW-24	9/5/2014	**11**
MW-26	9/4/2014	<5.0
MW-28	9/11/2014	<5.0
MW-30	9/5/2014	<5.0
MW-31	9/8/2014	<5.0
UFB/Water Table Del Amo-Owned Wells		
SWL0049	9/30/2014	**25,000**
PZL0025	9/8/2014	<5.0

Table 4
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2014 Groundwater Monitoring Report
Montrose Superfund Site
20201 S. Normandie Avenue, Los Angeles, California

Well	Date	pCBSA
	Units	µg/L
MBFC Montrose-Owned Wells		
BF-1	9/8/2014	**29**
	09/08/2014[(a)]	**31**
BF-2	9/10/2014	**98,000**
BF-3	9/8/2014	**8,900**
BF-4	9/9/2014	**17,000**
BF-5	9/9/2014	<5.0
BF-9	9/10/2014	**82,000**
BF-10	9/4/2014	<5.0
BF-11	9/9/2014	**7.0**
BF-12	9/16/2014	**30,000**
	09/16/2014[(a)]	**29,000**
BF-14	9/5/2014	**1,000**
BF-15	9/4/2014	**1,400**
BF-16	9/5/2014	**7,100**
BF-17	9/4/2014	**33,000**
BF-19	9/15/2014	<5.0
BF-20	9/9/2014	**52,000**
BF-21	9/4/2014	**27,000**
BF-22	9/3/2014	**14,000**
BF-23	9/8/2014	**5.2**
BF-24	9/5/2014	**19,000**
BF-25	9/4/2014	**4.7 J**
BF-27	9/3/2014	<5.0
BF-28	9/3/2014	**390**
BF-29	9/16/2014	**25**
BF-30	9/8/2014	**13**
BF-31	9/10/2014	**350**
BF-32A	9/15/2014	**9.9**
BF-35	9/11/2014	**9,800**
BF-OW-1	9/8/2014	**350**
MBFC Del Amo-Owned Wells		
SWL0027	9/3/2014	**77**
SWL0033	9/5/2014	**39,000**
SWL0058	9/11/2014	**1,100**
G-02WC	9/9/2014	**1,900**

Table 4
Summary of pCBSA Laboratory Results
2014 Groundwater Monitoring Report
Montrose Superfund Site
20201 S. Normandie Avenue, Los Angeles, California

Well	Date	pCBSA
	Units	µg/L
MBFC Boeing-Owned Wells		
CMW001	9/8/2014	**32,000**
CMW002	9/8/2014	**57,000**
MWC017	9/8/2014	**77**
MWC021	9/8/2014	<5.0
Gage Aquifer Montrose-Owned Wells		
G-1	9/9/2014	**79**
	09/09/2014[(a)]	**91**
G-2	9/10/2014	**29,000**
G-3	9/9/2014	**150**
G-4	9/9/2014	**820**
G-5	9/10/2014	**38,000**
G-8	9/9/2014	**4,200**
G-9	9/4/2014	**21,000**
G-11	9/15/2014	**1,900**
G-12	9/8/2014	**36,000**
G-13	9/5/2014	**21,000**
	9/05/2014[(a)]	**23,000**
G-14	9/15/2014	<5.0
G-15	9/16/2014	<5.0
G-16	9/16/2014	<5.0
G-17	9/10/2014	**3,400**
	9/10/2014[(a)]	**3,600**
G-18	9/3/2014	**2,000**
G-19A	9/3/2014	**5,700**
G-20	9/8/2014	<5.0
G-21	9/11/2014	**130**
G-23	9/5/2014	**84**
G-24	9/4/2014	**9,200**
G-25	9/9/2014	**1,200**
G-26	9/4/2014	**720**
	9/04/2014[(a)]	**730**
G-27	9/4/2014	<5.0

Table 4
Summary of pCBSA Laboratory Results
2014 Groundwater Monitoring Report
Montrose Superfund Site
20201 S. Normandie Avenue, Los Angeles, California

Well	Date	pCBSA
	Units	µg/L
G-28	9/3/2014	**2,000**
G-29	9/4/2014	**11,000**
G-30	9/11/2014	<5.0
G-32	9/4/2014	<5.0
G-33	9/11/2014	**140**
G-35	9/4/2014	**4,200**
G-OW-3	9/5/2014	**6,900**
LG-1	9/16/2014	**26,000**
	9/16/2014[(a)]	**26,000**
LG-2	9/16/2014	**27,000**
Gage Del Amo-Owned Wells		
SWL0026	9/3/2014	**110**
SWL0034	9/5/2014	**17**
SWL0063	9/10/2014	<5.0
Gage ILM-Owned Wells		
BL-13C	9/8/2014	**4,200**
Lynwood Aquifer Montrose-Owned Wells		
LW-1	9/10/2014	**9.5**
	9/10/2014[(a)]	**8.2**
LW-2	9/10/2014	<5.0
LW-4	9/19/2014	**780**
	1/13/2015 [(c)]	**130**
LW-5	9/11/2014	<5.0
LW-6	9/18/2014	<5.0
LW-7	9/15/2014	<5.0

Notes:
[(a)] Duplicate Sample
[(b)] Confirmation Sample
[(c)] LW-4 was re-sampled on 1/13/15 using macro-purge sampling methods.
pCBSA = 4-chlorobenzenesulfonic acid
No Upper Bellflower Aquitard wells were sampled for pCBSA.

Samples were analyzed using EPA Method 314.0 Modified.

µg/L micrograms per liter

Laboratory-Assigned Qualifier
J Estimated value. Analyte detected at a level less than the RL and greater than or equal to the MDL. The user of this data should be aware that this data is of limited reliability.

TABLE 5
Summary of QA/QC Sample Laboratory Results
2014 Baseline Monitoring and Aquifer Compliance Report
Montrose Superfund Site
20201 S. Normandie Avenue, Los Angeles, California

Field Sample	Laboratory Sample	Sampling Date	VOCs	pCBSAs
Laboratory Method			(EPA 8260B)	(EPA 314.0 Modified)
Units			(µg/L)	(µg/L)
TRIP BLANKS				
TB-20140903	14-09-0173-01	9/3/2014	ND	--
TB-20140904	14-09-0312-01	9/4/2014	ND	--
TB-20140905	14-09-0448-01	9/5/2014	ND	--
TB-20140908	14-09-0556-01	9/8/2014	ND	--
TB20140908-B	14-09-0554-01	9/8/2014	ND	--
TB-20140909	14-09-0658-01	9/9/2014	ND	--
TB20140909-B	14-09-0659-01	9/9/2014	ND	--
TB-20140910	14-09-0760-01	9/10/2014	ND	--
TB-20140911	14-09-0943-02	9/11/2014	ND	--
TB-20140915	14-09-1187-01	9/15/2014	ND	--
TB-20140916	14-09-1264-01	9/16/2014	ND	--
TB-20140918	14-09-1462-01	9/18/2014	ND	--
TB-20140919	14-09-1606-02	9/19/2014	ND	--
EQUIPMENT BLANKS				
EB-20140903	14-09-0173-02	9/3/2014	methylene chloride -- 0.41 J	<5.0
EB-20140904	14-09-0312-02	9/4/2014	ND	<5.0
EB-20140905	14-09-0448-02	9/5/2014	methylene chloride -- 1.3	<5.0
EB-20140908	14-09-0556-02	9/8/2014	methylene chloride -- 0.92 J	<5.0
EB-20140909	14-09-0658-02	9/9/2014	methylene chloride -- 0.53 J	<5.0
EB-20140910	14-09-0760-02	9/10/2014	chlorobenzene -- 0.22 J	<5.0
EB-20140911	14-09-0943-03	9/11/2014	methylene chloride -- 0.47 J	<5.0
EB-20140915	14-09-1187-02	9/15/2014	ND	<5.0
EB-20140916	14-09-1264-02	9/16/2014	ND	<5.0
EB-20140918	14-09-1462-02	9/18/2014	chloroform -- 0.28 J	<5.0
EB-20140919	14-09-1606-01	9/19/2014	acetone -- 3.7 J (J) toluene -- 0.43 J	<5.0
EB-20150113	15-01-0665	1/13/2015	acetone -- 3.8 J chloroform -- 0.22 J TBA --8.0 J	<5.0

Notes:

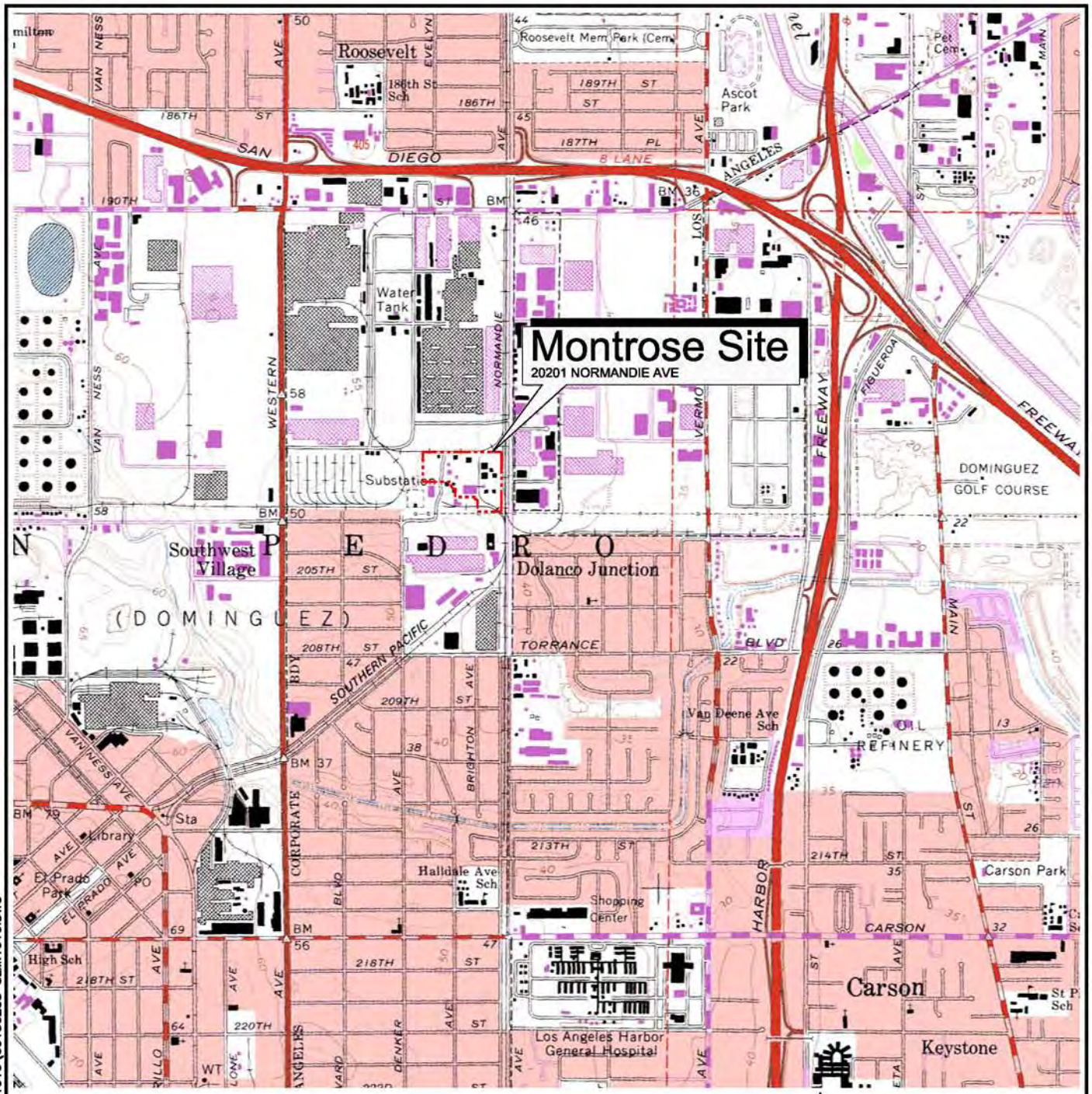
--	sample not submitted for analysis by laboratory method
µg/L	micrograms per liter
EPA	United States Environmental Protection Agency
ND	analytes listed as part of EPA Method 8260B were not detected
pCBSA	4-chlorobenzenesulfonic acid
QA/QC	quality assurance/quality control
VOC	volatile organic compound

Laboratory-Assigned Qualifier
J Estimated value. Analyte detected at a level less than the RL and greater than or equal to the MDL. The user of this data should be aware that this data is of limited reliability.

Data Validation Qualifier
(J) Estimated value.

AECOM

FIGURES



Reference:

1. U.S.G.S. Topographic Map, Torrance, California 7.5 Minute Quadrangle. Georeferenced using the State of California's CASIL On-line GIS Database, Copyright 2010.

Montrose Chemical Corporation

Site Location Map

Date: 10-10	Montrose Superfund Site	Figure
Project No. 60150255	AECOM	1

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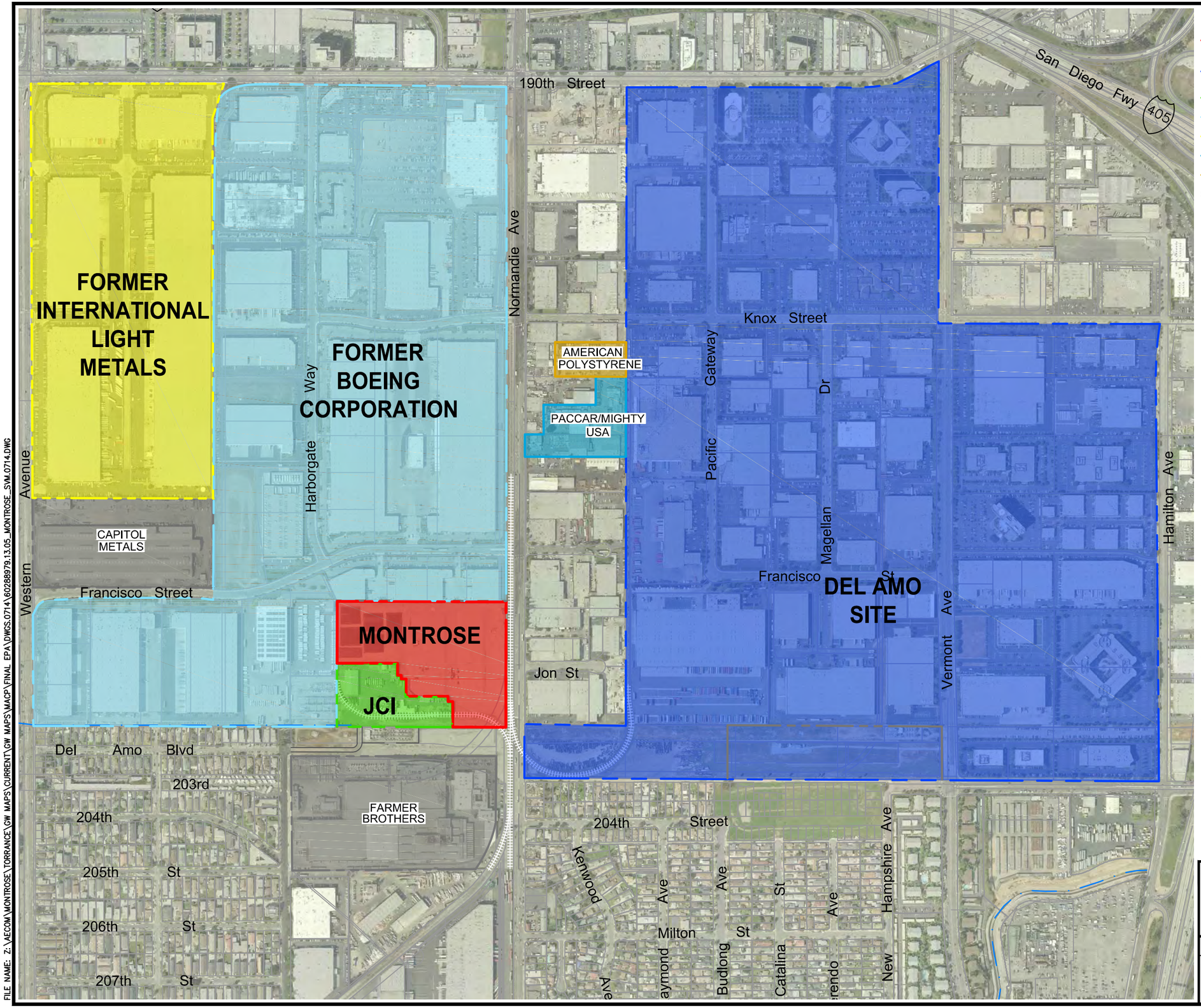


Legend:

- Location of Montrose Property Boundary
- Location of Del Amo Superfund Site Boundary
- Jones Chemical Site Boundary
- Former Boeing Corp Site Boundary
- Former ILM Site Boundary
- Paccar/Mighty USA Site Boundary
- American Polystyrene Site Boundary
- Existing Railroad Tracks
- *LADWP* Los Angeles Department of Water and Power
- *UPRR* Union Pacific Railroad

References:

1. Parcel Boundary Information from Los Angeles, CA, Department of Public Works, Online GIS data set, ©2012. Montrose Chemical Corporation Boundary Survey conducted August 13, 2001 by Dulin & Boynton Land Surveyors.
2. Satellite/Aerial Photos Reference: U.S.G.S Orthorectified Image, Dated July 29, 2009.

Note:

1. The Former ILM Site Property is not part of the Dual Site Groundwater Operable Unit.

NORTH

0 300 600 FEET

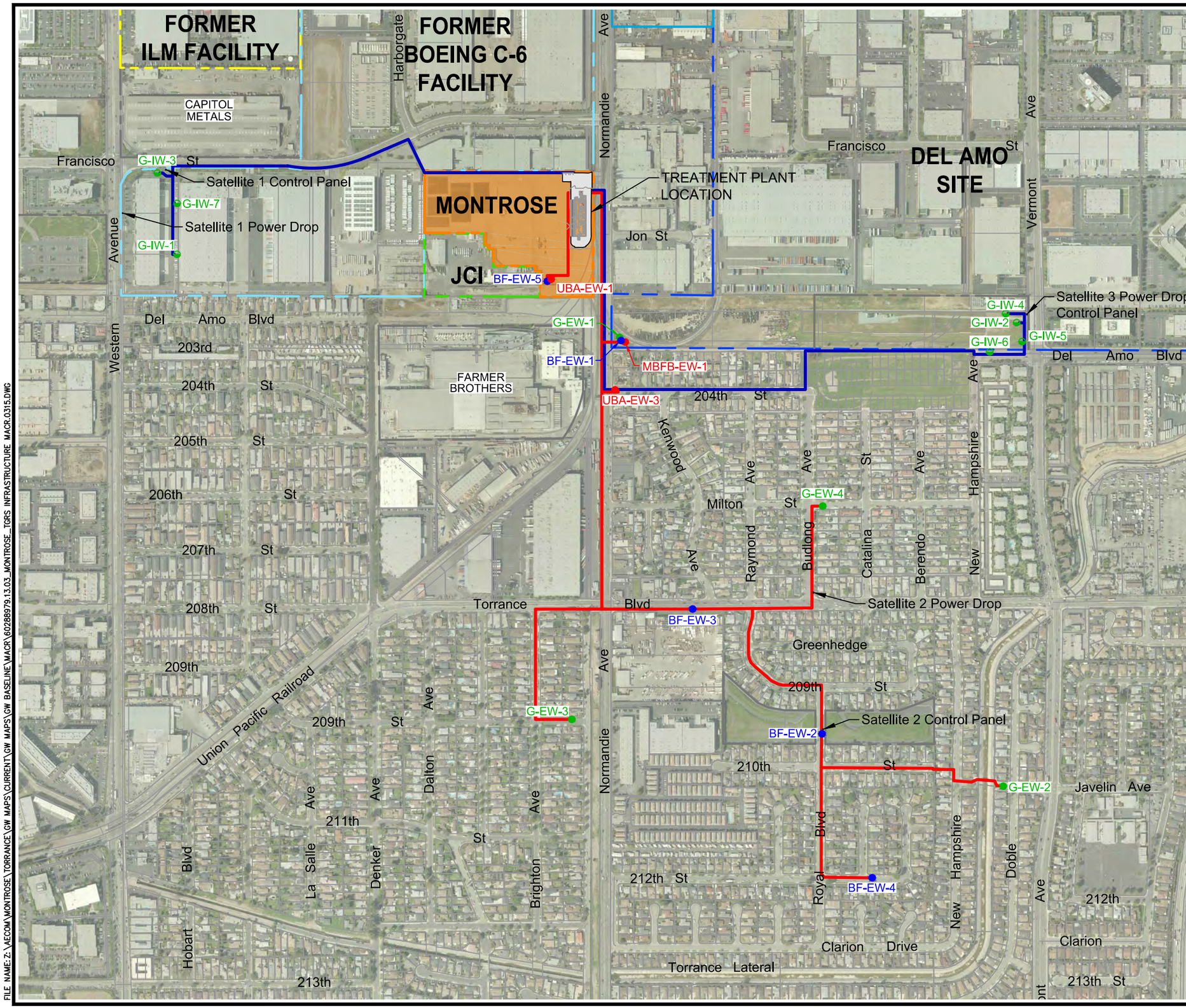
SCALE: 1"= 600'

Montrose Chemical Corporation

Site Vicinity Map

Date: 07-14	Montrose Superfund Site	Figure 2
Project No. 60288979	AECOM	

FILE NAME: Z:\AECOM\MONTROSE\TORRANCE\GW MAPS\CURRENT\GW MAPS\MACP\FINAL EPA\DWGS.0714\60288979.13.05_MONTROSE_SVM.0714.DWG



Legend:

- Location of Montrose Property Boundary
- Location of Del Amo Superfund Site Boundary
- Jones Chemical Site Boundary
- Former Boeing C-6 Site Boundary
- Former ILM Site Boundary
- Paccar/Mighty USA Site Boundary

Well Legend:

- UBE-EW-1 — Upper Bellflower Aquitard (UBF) Extraction Wells
- BF-EW-1 — MBFC (BFS) Extraction Wells
- G-EW-4 — Gage Aquifer Extraction Wells
- G-IW-3 — Gage Aquifer Injection Wells
- Extraction Pipeline
- Re-Injection Pipeline

References:

1. Parcel Boundary Information from Los Angeles, CA, Department of Public Works Bureau of Engineering Online ArcInfo GIS database, Copyright 2012. Montrose Chemical Corporation Boundary Survey conducted August 13, 2001 by Dulin-Boynton Land Surveyors.
2. Satellite/Aerial Photos Reference: U.S.G.S Orthorectified Image, Dated July 29, 2009.
3. Well Locations surveyed by Calvada Surveying Inc., from Los Angeles, CA (951)280-9960. Survey publish date September 21, 2014.

Note:

1. The Former ILM Site Property is not part of the Dual Site Groundwater Operable Unit.

NORTH

0 300 600 FEET

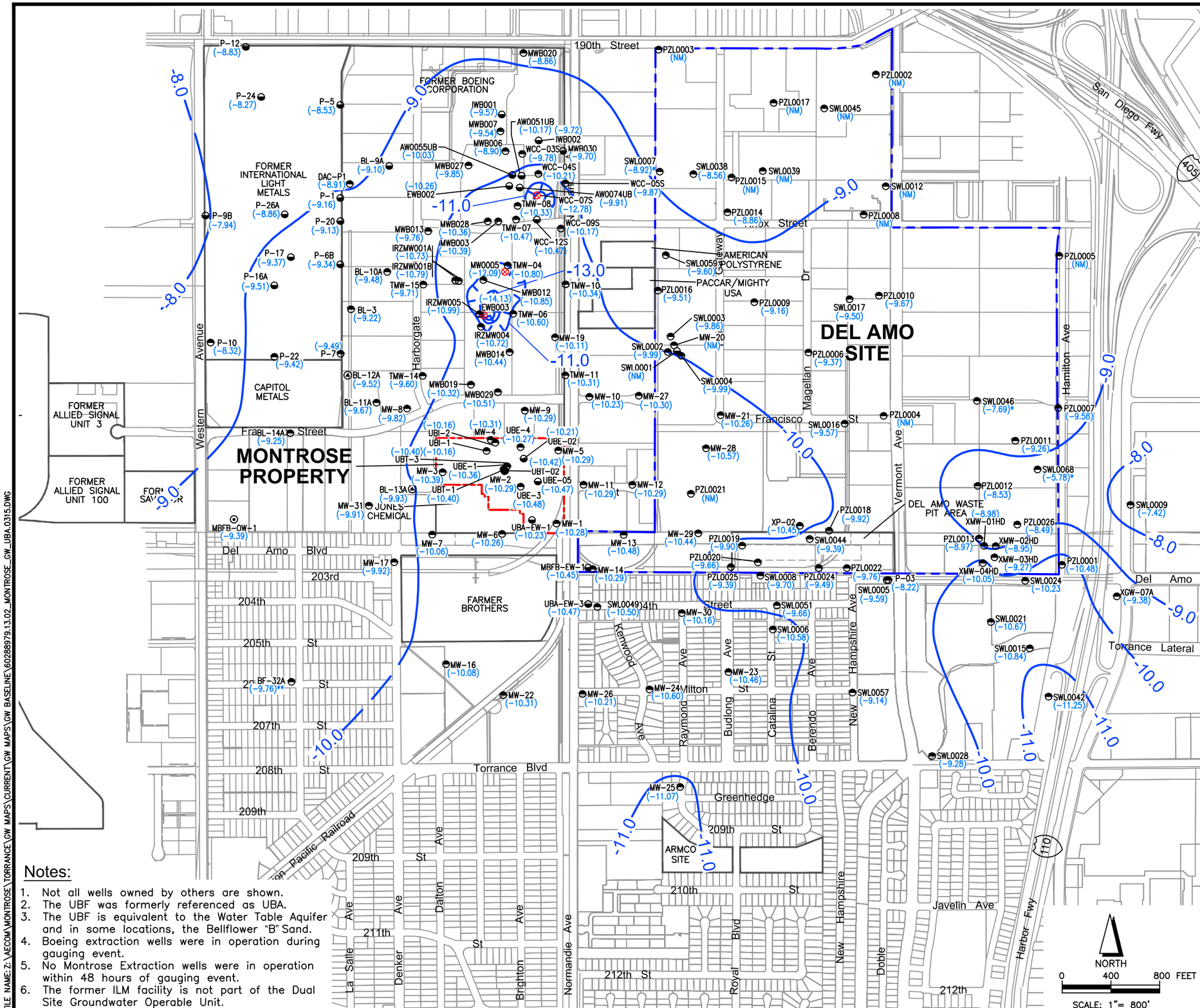
SCALE: 1"= 600'

Montrose Chemical Corporation

Torrance Groundwater Remediation System Infrastructure Map

Date: 03-15	Montrose Superfund Site	Figure
Project No. 60288979	AECOM	3

FILE NAME: Z:\AECOM\MONTROSE\TORRANCE\GW MAPS\CURRENT\GW MAPS\GW BASELINE\MACR\60288979.13.03_MONTROSE_TGRS INFRASTRUCTURE MACR.0315.DWG



Legend:

Location of Montrose Property Boundary

Location of Del Amo Superfund Site Boundary

Well Legend:

SWL0012	Upper Bellflower Aquitard (UBF) Groundwater Monitoring Well Location
BL-12A	Cluster Well
EWB003	Boeing Extraction Wells
UBA-EW-3	Montrose TGRS Extraction Wells
(-9.67)	Groundwater Elevation in Feet Mean Sea Level (MSL) Measured September 2014
(NM)	Not measured
-10.0	Interpreted Groundwater Elevation Contours in Feet (MSL.) Contour Intervals are 1.00 Feet. Dashed where Inferred.
*	= Groundwater Elevation not used for contouring purposes.
**	= Well is screened from the UBF to the Middle Bellflower "B" Sands

Well Identifier Notes:

MW = Montrose Monitoring Wells
G, GW, SWL, PZL, GW, P, MW-2T, MW-xHD = Del Amo Monitoring Wells
OW = American Polystyrene Monitoring Wells
AMW, AMP, ARB = Armco Monitoring Wells
DAC, TMW, WCC, MWB = Boeing Monitoring Wells
BL, P = International Light Metals Monitoring Wells
IRZB, IRZMW = Boeing Bioremediation Wells

Notes:

1. Not all wells owned by others are shown.
2. The UBF was formerly referenced as UBA.
3. The UBF is equivalent to the Water Table Aquifer and in some locations, the Bellflower "B" Sand.
4. Boeing extraction wells were in operation during gauging event.
5. No Montrose Extraction wells were in operation within 48 hours of gauging event.
6. The former ILM facility is not part of the Dual Site Groundwater Operable Unit.

References:

1. Parcel Boundary Information from Los Angeles, CA, Department of Public Works Bureau of Engineering Online ArcInfo GIS database, Copyright 2012. Montrose Chemical Corporation Boundary Survey conducted August 13, 2001 by Dulin-Boynton Land Surveyors.
2. Avocet, 2014. September 2014 Annual Groundwater and GET System Performance Monitoring Report, Boeing Former C-6 Facility, 19502 Normandie Ave., Los Angeles, California.
3. Tetra Tech, 2014. 2014 Annual Groundwater Monitoring and Inspection Report, Former International Light Metals Facility, Torrance, California.
4. URS, 2015. 2014 Baseline Groundwater Monitoring Report, Dual Site Groundwater Operable Unit, Montrose Chemical and Del Amo Superfund Sites, Los Angeles, California.

Montrose Chemical Corporation

2014 Groundwater Elevations Map, UBF

Date: 03-15	Montrose Superfund Site	Figure 4
Project No. 60288979	AECOM	

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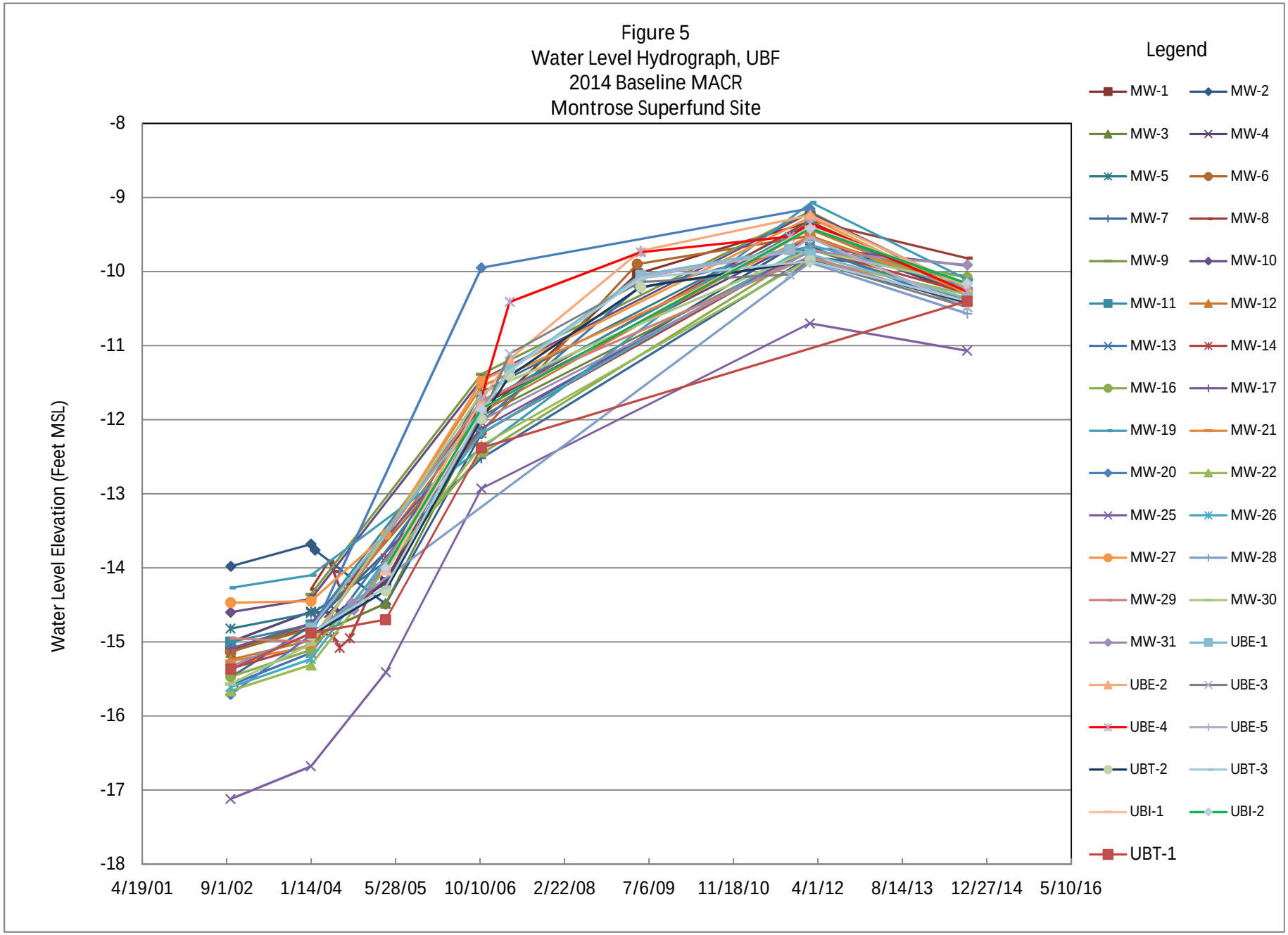
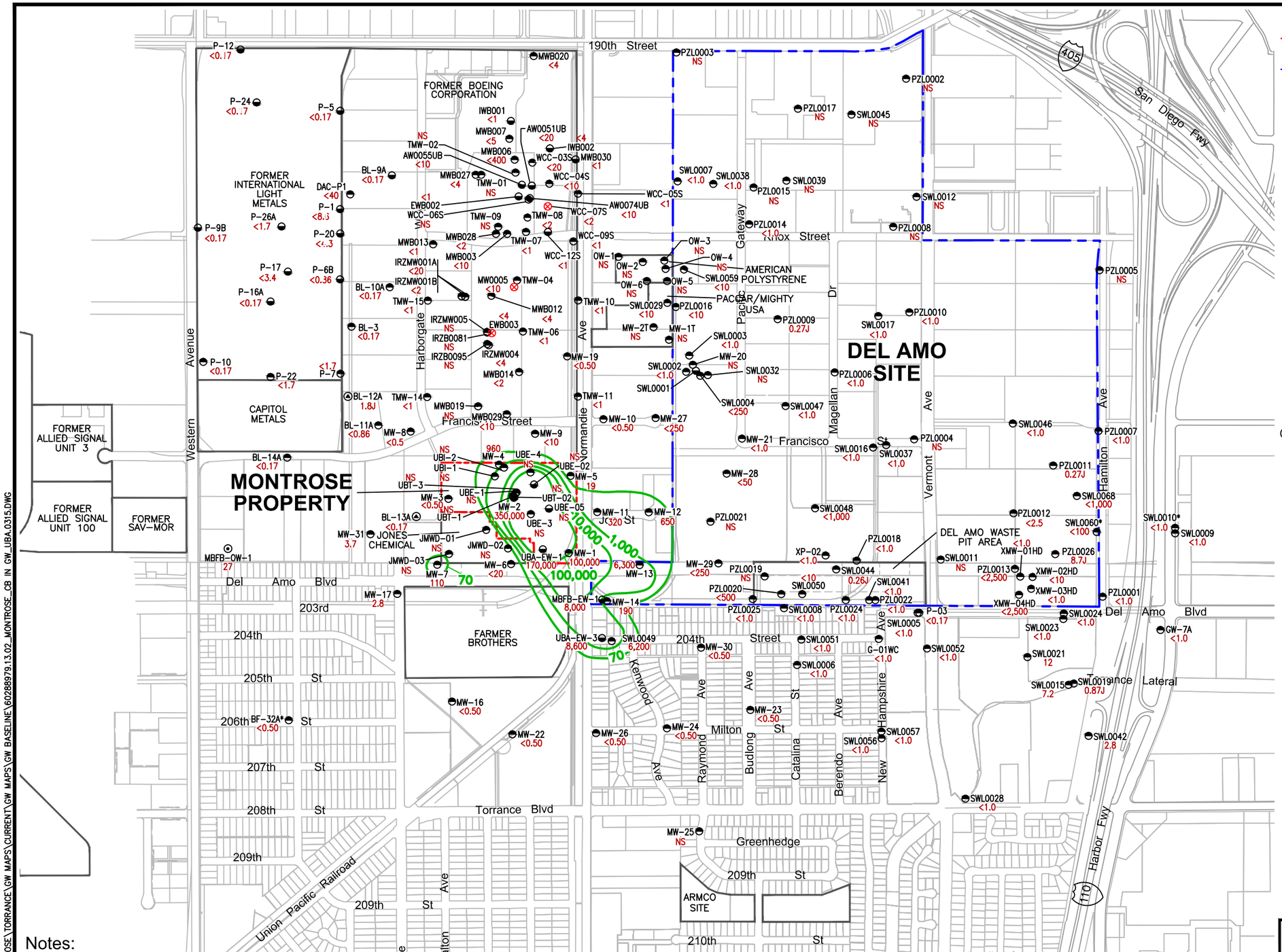


Figure 5
Water Level Hydrograph, UBF
2014 Baseline MACR
Montrose Superfund Site
Water Level Elevation (Feet MSL)
-8
-9
-10
-11
-12
-13
-14
-15
-16
-17
-18
4/19/01
9/1/02
1/14/04
5/28/05
10/10/06
2/22/08
7/6/09
11/18/10
4/1/12
8/14/13
12/27/14
5/10/16
Legend
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-11
MW-12
MW-13
MW-14
MW-16
MW-17
MW-19
MW-21
MW-20
MW-22
MW-25
MW-26
MW-27
MW-28
MW-29
MW-30
MW-31
UBE-1
UBE-2
UBE-3
UBE-4
UBE-5
UBT-2
UBT-3
UBI-1
UBI-2
UBT-1



Legend:

- Location of Montrose Property Boundary
- Location of Del Amo Superfund Site Boundary

Well Legend:

- SWL0012 — Upper Bellflower Aquitard (UBF) Groundwater Monitoring Well Location
- BL-12A — Cluster Well
- EWB003 — Boeing Extraction Wells
- UBA-EW-3 — Montrose TGRS Extraction Wells
- <1 — Less than; Numerical value is the limit of detection for this analysis.
- * — Well screened from the water table zone into the Middle Bellflower 'C' sand.
- MW-11 280 — MCB concentration in micrograms per liter. 2013 to September 2014 Baseline Ground-water Monitoring Event. Most recent data shown.
- MCB — Chlorobenzene
- 1,000 — Contour line of equal concentration of CB in micrograms per liter dashed where approximate, dashed where inferred

Well Identifier Notes:

MW = Montrose Monitoring Wells
G, GW, SWL, PZL, GW, P, MW-2T, MW-xHD = Del Amo Monitoring Wells
OW = American Polystyrene Monitoring Wells
AMW, AMP, ARB = Armco Monitoring Wells
DAC, TMW, WCC, MWB = Boeing Monitoring Wells
BL, P = International Light Metals Monitoring Wells
IRZB, IRZMW = Boeing Bioremediation Wells

References:

1. Parcel Boundary Information from Los Angeles, CA, Department of Public Works Bureau of Engineering Online ArcInfo GIS database, Copyright 2012. Montrose Chemical Corporation Boundary Survey conducted August 13, 2001 by Dulin-Boynton Land Surveyors.
2. Avocet, 2014. September 2014 Annual Groundwater and GET System Performance Monitoring Report, Boeing Former C-6 Facility, 19502 Normandie Ave., Los Angeles, California.
3. Tetra Tech, 2014. 2014 Annual Groundwater Monitoring and Inspection Report, Former International Light Metals Facility, Torrance, California.
4. URS, 2015. 2014 Baseline Groundwater Monitoring Report, Dual Site Groundwater Operable Unit, Montrose Chemical and Del Amo Superfund Sites, Los Angeles, California.

Notes:

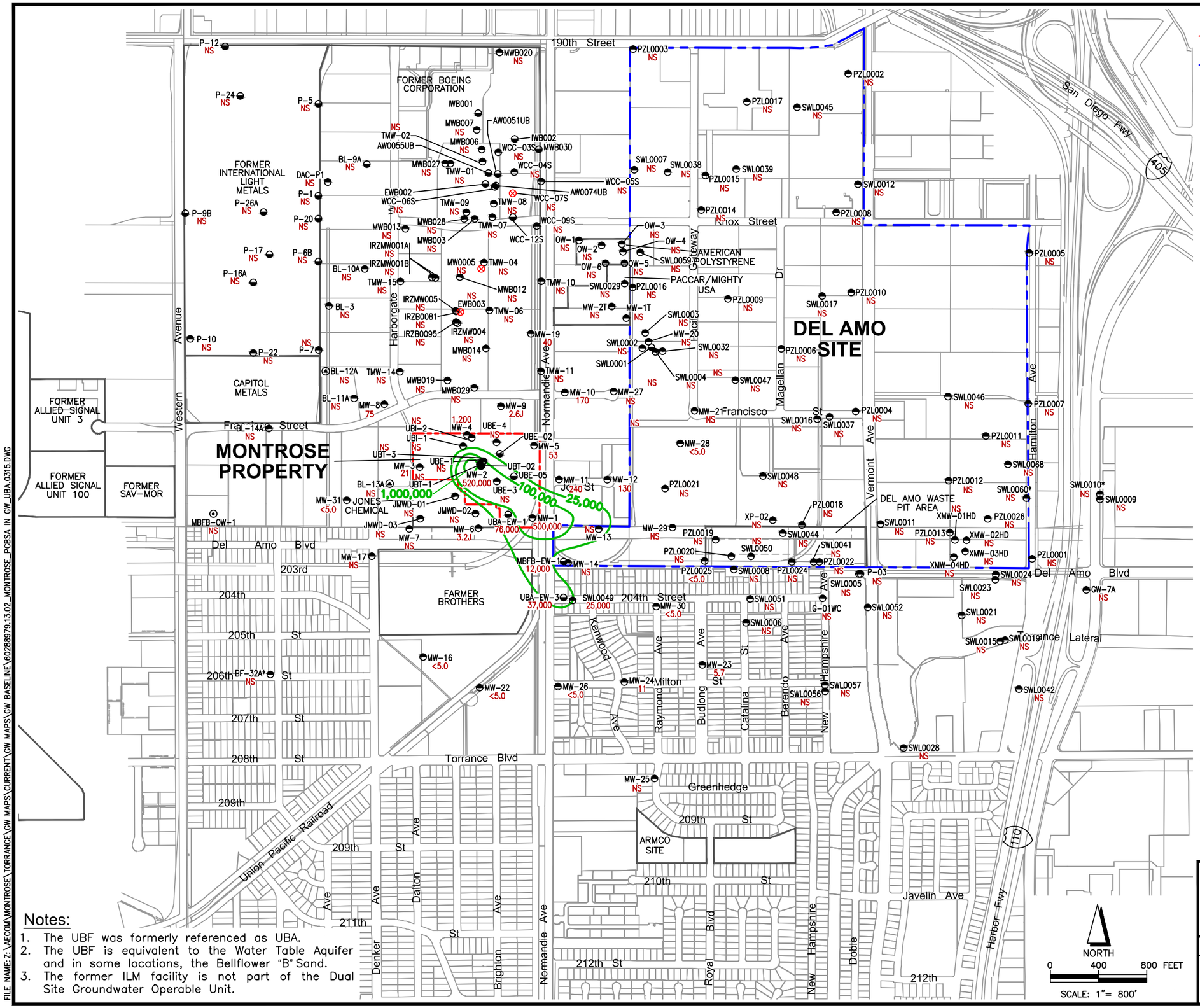
1. For MCB, the Federal Maximum Contaminant Level (MCL) is 100 µg/L, and the California MCL is 70 µg/L.
2. Not all wells owned by others are shown.
3. The UBF was formerly referenced as UBA.
4. The UBF is equivalent to the Water Table Aquifer and in some locations, the Bellflower "B" Sand.
5. The former ILM facility is not part of the Dual Site Groundwater Operable Unit.

Montrose Chemical Corporation

Chlorobenzene in UBF

Date: 03-15	Montrose Superfund Site	Figure
Project No. 60288979	AECOM	6

FILE NAME: Z:\AECOM\MONTROSE\TORRANCE\GW MAPS\CURRENT\GW MAPS\GW BASELINE\60288979.13.02_MONTROSE_CB IN GW_UBA.0315.DWG



Legend:

Location of Current Montrose Property Boundary

Location of Current Del Amo Superfund Site Boundary

Well Legend:

SWL0012	Upper Bellflower Aquitard (UBF) Groundwater Monitoring Well Location
BL-12A	Cluster Well
EWB003	Boeing Extraction Wells
UBA-EW-3	Extraction Wells
*	Well screened from the water table zone into the Middle Bellflower 'C' sand.
37,000	pCBSA concentration in micrograms per liter. 2013 to September 2014 Baseline Groundwater Monitoring Event. Most recent data shown.
pCBSA	4-Chlorobenzenesulfonic Acid
25,000	Contour line of equal concentration of pCBSA in micrograms per liter dashed where approximate, queried where inferred based on most recent sampling results.

Well Identifier Notes:

MW = Montrose Monitor Wells
G, GW, SWL, PZL, GW, P, MW-2T, MW-xHD = Del Amo Monitor Wells
OW = American Polystyrene Monitor Wells
AMW, AMP, ARB = Armco Monitor Wells
DAC, TMW, WCC, MWB = Boeing Monitor Wells
BL = Industrial Light Metals Monitor Wells
IRZB, IRZMW = Boeing Bioremediation Wells

Notes:

1. The UBF was formerly referenced as UBA.
2. The UBF is equivalent to the Water Table Aquifer and in some locations, the Bellflower "B" Sand.
3. The former ILM facility is not part of the Dual Site Groundwater Operable Unit.

References:

1. Parcel Boundary Information from Los Angeles, CA, Department of Public Works Bureau of Engineering Online ArcInfo GIS database, Copyright 2012. Montrose Chemical Corporation Boundary Survey conducted August 13, 2001 by Dulin-Boynton Land Surveyors.
2. Avocet, 2014. September 2014 Annual Groundwater and GET System Performance Monitoring Report, Boeing Former C-6 Facility, 19502 Normandie Ave., Los Angeles, California.
3. Tetra Tech, 2014. 2014 Annual Groundwater Monitoring and Inspection Report, Former International Light Metals Facility, Torrance, California.
4. URS, 2015. 2014 Baseline Groundwater Monitoring Report, Dual Site Groundwater Operable Unit, Montrose Chemical and Del Amo Superfund Sites, Los Angeles, California.

Montrose Chemical Corporation

pCBSA in UBF

Date: 03-15	Montrose Superfund Site	Figure 7
Project No. 60288979	AECOM	

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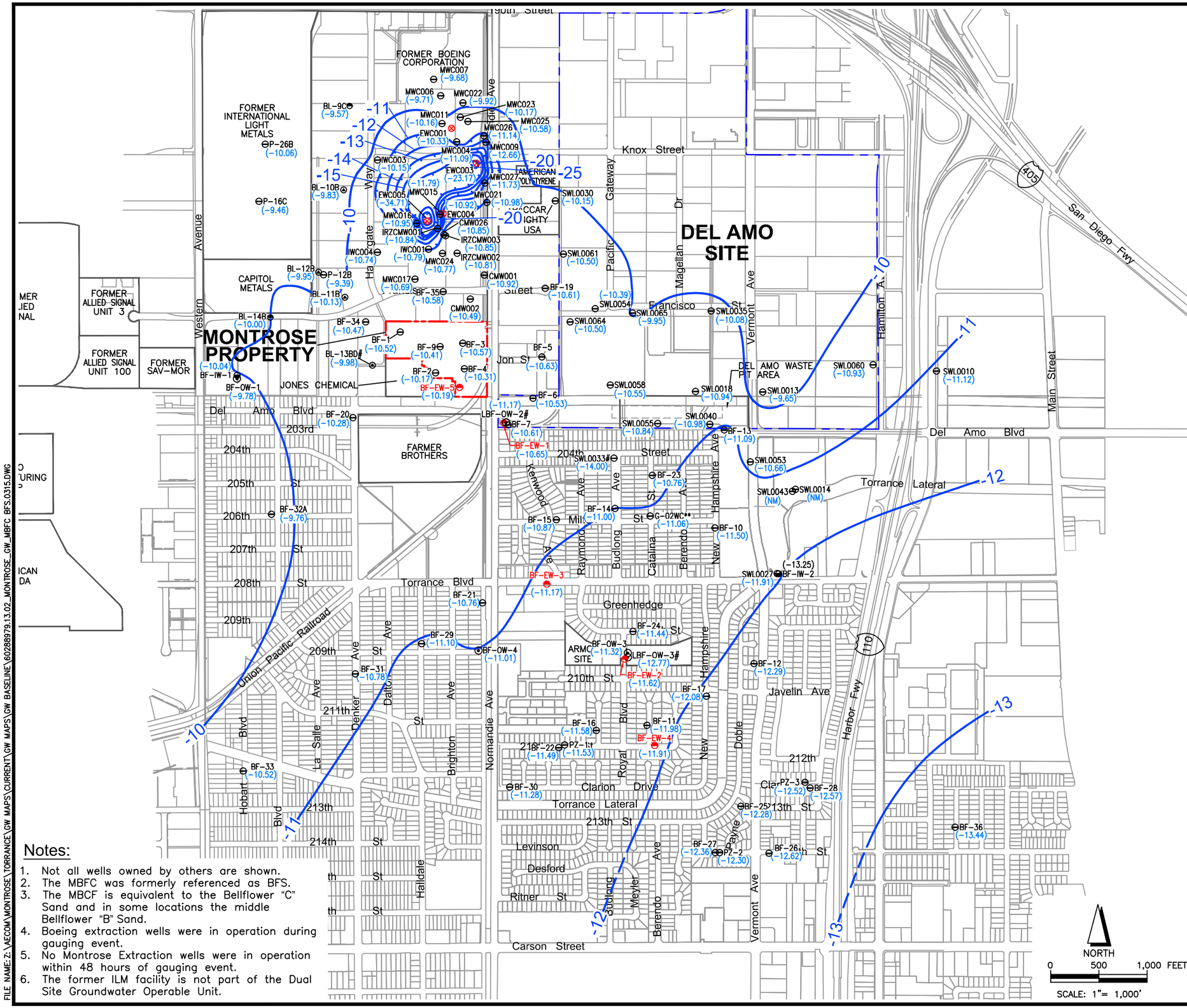


Legend:

Location of Montrose Property Boundary

Location of Del Amo Superfund Site Boundary

Well Legend:

SWL0013	Middle Bellflower "C" Sand (MBFC) Groundwater Monitoring Well Location
BL-12B	Cluster Well
EWC003	Boeing Extraction Wells
BF-OW-3	Middle Bellflower "B" Observation Well
BF-EW-3	Montrose TGRS Extraction Wells
BF-IW-3	Montrose TGRS Injection Wells
(-9.65)	Groundwater Elevation in Feet Mean Sea Level (MSL) Measured September 2014
(-13.25)	Not used for contouring purposes
(NM)	Not measured
-10.0	Interpreted Groundwater Elevation Contours in Feet (MSL.) Contour Intervals are 1.00 Feet. Dashed where Inferred.
#	= Well is screened in the Lower Bellflower Aquifer, not used for contouring

Well Identifier Notes:

BF	= Montrose Monitoring Wells
SWL	= Del Amo Monitoring Wells
P	= International Light Metals Monitoring Wells
CMW, MWC	= Boeing Monitoring Wells
ECW, BL, IWC	= Boeing Bioremediation Wells
IRZC, IRZMW	
BFS	= Bellflower Sands

Bellflower Sand is equivalent to Middle Bellflower "C" Sand

G-02WC is hydraulically consistent with the BFS, although it is screened 82-92 ft bgs
** and characterized as a MBFB sand well by Shell.

Notes:

1. Not all wells owned by others are shown.
2. The MBFC was formerly referenced as BFS.
3. The MBCF is equivalent to the Bellflower "C" Sand and in some locations the middle Bellflower "B" Sand.
4. Boeing extraction wells were in operation during gauging event.
5. No Montrose Extraction wells were in operation within 48 hours of gauging event.
6. The former ILM facility is not part of the Dual Site Groundwater Operable Unit.

References:

1. Parcel Boundary Information from Los Angeles, CA, Department of Public Works Bureau of Engineering Online ArcInfo GIS database, Copyright 2012. Montrose Chemical Corporation Boundary Survey conducted August 13, 2001 by Dulin-Boynton Land Surveyors.
2. Avocet, 2014. September 2014 Annual Groundwater and GET System Performance Monitoring Report, Boeing Former C-6 Facility, 19502 Normandie Ave., Los Angeles, California.
3. Tetra Tech, 2014. 2014 Annual Groundwater Monitoring and Inspection Report, Former International Light Metals Facility, Torrance, California.
4. URS, 2015. 2014 Baseline Groundwater Monitoring Report, Dual Site Groundwater Operable Unit, Montrose Chemical and Del Amo Superfund Sites, Los Angeles, California.

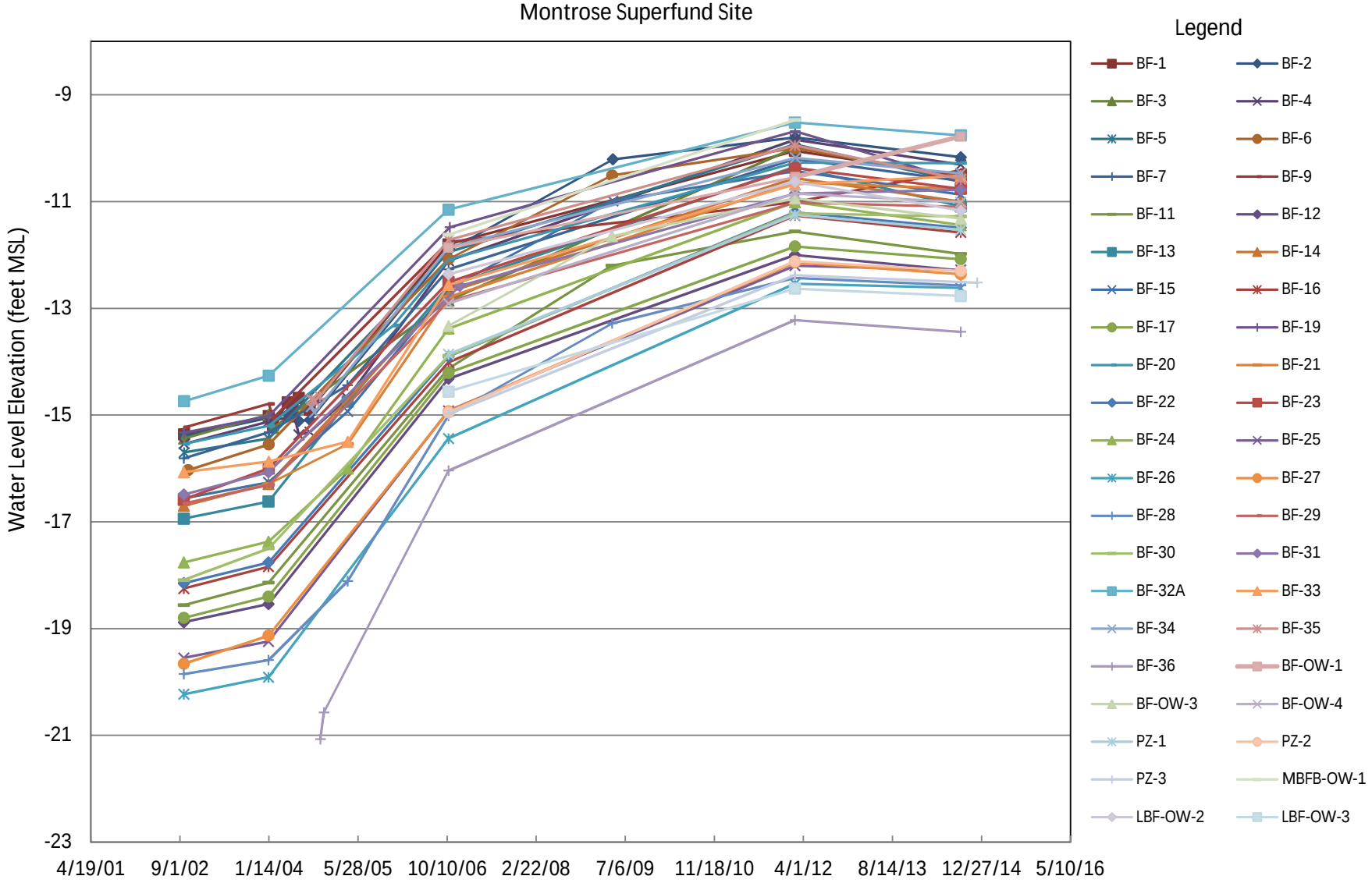
Montrose Chemical Corporation

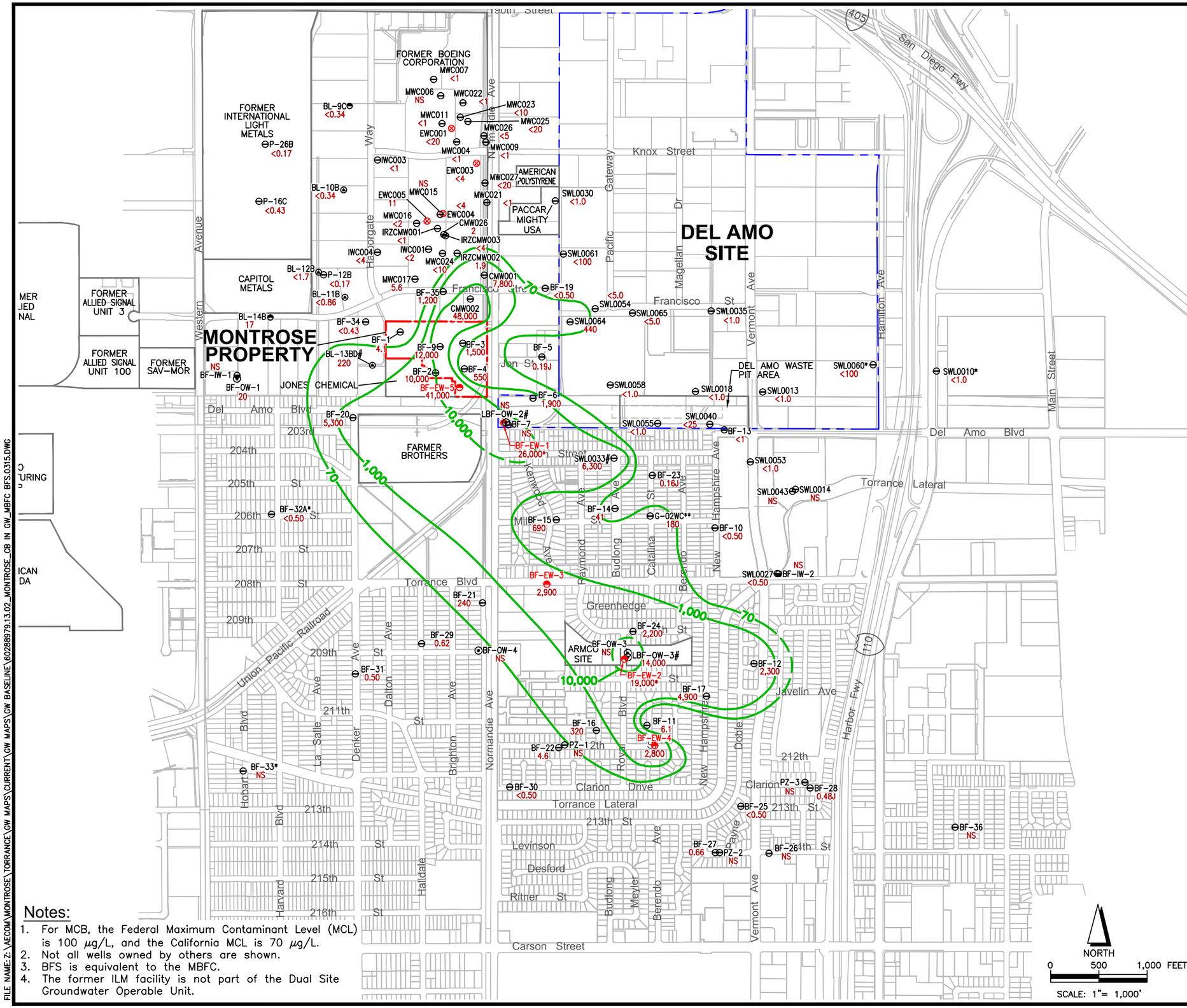
2014 Groundwater Elevations Map, MBFC

Date: 03-15	Montrose Superfund Site	Figure 8
Project No. 60288979	AECOM	

FILE NAME: Z:\AECOM\MONTROSE\TORRANCE\GW MAPS\CURRENT\GW MAPS\GW BASELINE\60288979.13.02_MONTROSE_GW_MBFC BFS.0315.DWG

Figure 9
Water Level Hydrograph, MBFC Aquifer
2014 Baseline MACR
Montrose Superfund Site





Legend:

- Location of Montrose Property Boundary
- Location of Del Amo Superfund Site Boundary

Well Legend:

SWL0013	Middle Bellflower "C" Sand (MBFC) Groundwater Monitoring Well Location
BL-12B	Cluster Well
EWC003	Boeing Extraction Wells
BF-OW-3	Middle Bellflower "B" Observation Well
BF-EW-3	Montrose TGRS Extraction Wells
1,100	MCB concentration in micrograms per liter 2013 to October 2014
<1.0	Less than; Numerical value is the limit of detection for this analysis. Wells sampled by Tetra Tech are reported above the MDL
*	TRGS well sample collected 2005 – 2012
MCB	Chlorobenzene
1,000	Contour line of equal concentration of MCB in micrograms per liter dashed where approximate, dashed where inferred

* = Well is screened from the MBFC Middle Bellflower "C" Sand

\# = Well is screened in the Lower Bellflower Aquifer

Well Identifier Notes:

- BF = Montrose Monitoring Wells
- SWL = Del Amo Monitoring Wells
- P = International Light Metals Monitoring Wells
- CMW, MWC = Boeing Monitoring Wells
- ECW, BL, IWC IRZC, IRZMW = Boeing Bioremediation Wells
- BFS = Bellflower Sands

Bellflower Sand is equivalent to Middle Bellflower "C" Sand

** G-02WC is hydraulically consistent with the BFS, although it is screened 82–92 ft bgs and characterized as a MBFB sand well by Shell.

Notes:

1. For MCB, the Federal Maximum Contaminant Level (MCL) is 100 µg/L, and the California MCL is 70 µg/L.
2. Not all wells owned by others are shown.
3. BFS is equivalent to the MBFC.
4. The former ILM facility is not part of the Dual Site Groundwater Operable Unit.

References:

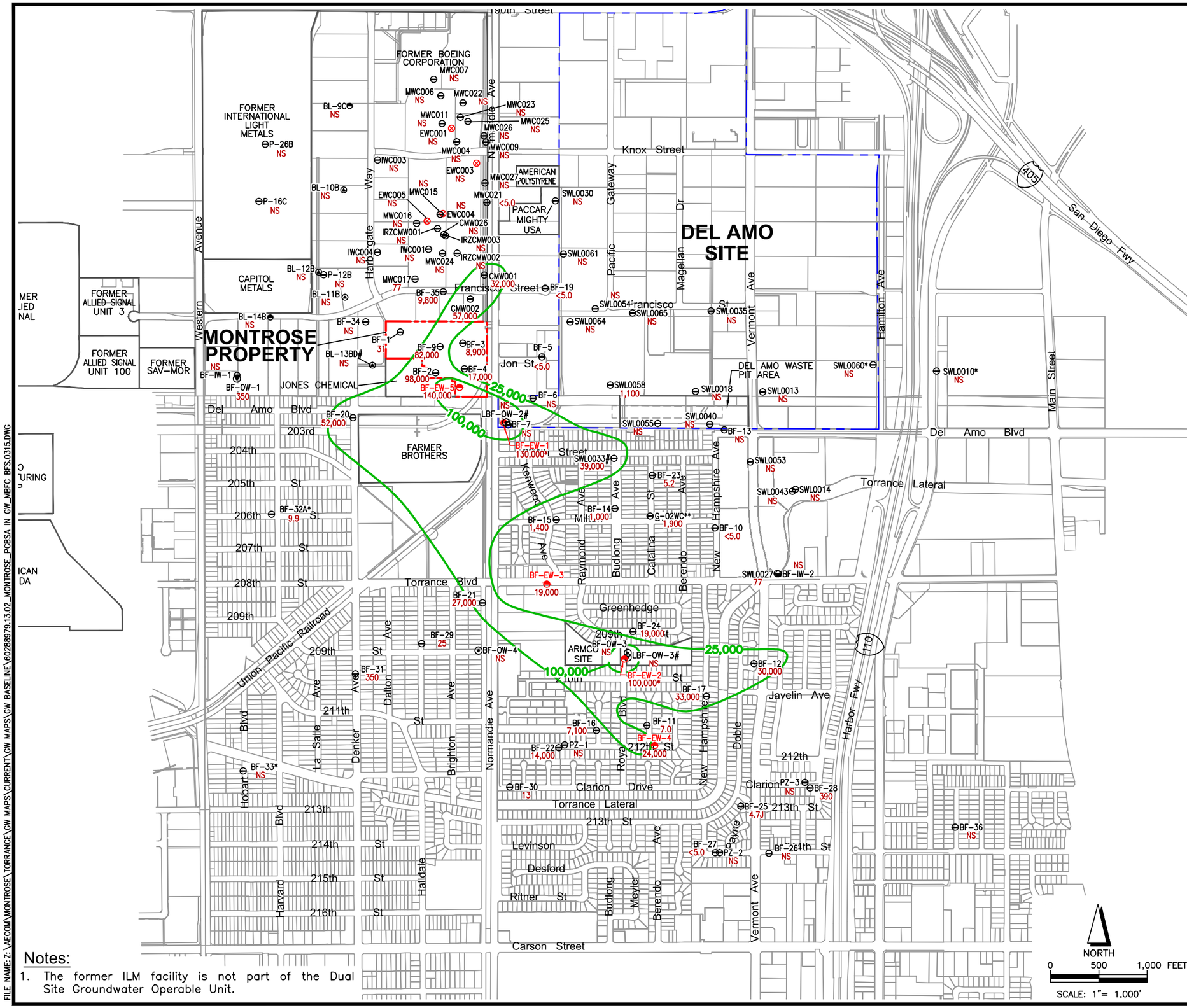
1. Parcel Boundary Information from Los Angeles, CA, Department of Public Works Bureau of Engineering Online ArcInfo GIS database, Copyright 2012. Montrose Chemical Corporation Boundary Survey conducted August 13, 2001 by Dulin–Boynton Land Surveyors.
2. Avocet, 2014. September 2014 Annual Groundwater and GET System Performance Monitoring Report, Boeing Former C–6 Facility, 19502 Normandie Ave., Los Angeles, California.
3. Tetra Tech, 2014. 2014 Annual Groundwater Monitoring and Inspection Report, Former International Light Metals Facility, Torrance, California.
4. URS, 2015. 2014 Baseline Groundwater Monitoring Report, Dual Site Groundwater Operable Unit, Montrose Chemical and Del Amo Superfund Sites, Los Angeles, California.

Montrose Chemical Corporation

Chlorobenzene in MBFC Aquifer

Date: 03-15	Montrose Superfund Site	Figure 10
Project No. 60288979	AECOM	

FILE NAME:Z:\AECOM\MONTROSE\TORRANCE\GW MAPS\CURRENT\GW MAPS\GW BASELINE\60288979.13.02_MONTROSE_CB IN GW_MBFC BFS.0315.DWG



Legend:

- Location of Current Montrose Property Boundary
- Location of Current Del Amo Superfund Site Boundary

Well Legend:

- SWL0013 — Middle Bellflower "C" Sand (MBFC) Groundwater Monitoring Well Location
- BL-12B — Cluster Well
- EWC003 — Boeing Extraction Wells
- BF-OW-3 — Middle Bellflower "B" Observation Well
- BF-EW-3 — Montrose TGRS Extraction Wells
- 140,000 — pCBSA concentration in micrograms per liter 2013 to October 2014
- NA — Not Analyzed
- <5.0 — Less than; Numerical value is the limit of detection for this analysis. Wells sampled by Tetra Tech are reported above the MDL
- * — TRGS well sample collected 2005 – 2012
- pCBSA — 4-Chlorobenzenesulfonic Acid
- 25,000 — Contour line of equal concentration of pCBSA in micrograms per liter dashed where approximate, queried where inferred based on most recent sampling results.

* = Well is screened from the MBFC Middle Bellflower "C" Sand

\# = Well is screened in the Lower Bellflower Aquifer

Well Identifier Notes:

BF = Montrose Monitoring Wells
SWL = Del Amo Monitoring Wells
P = International Light Metals Monitoring Wells
CMW, MWC = Boeing Monitoring Wells
ECW, BL, IWC = Boeing Bioremediation Wells
IRZC, IRZMW
BFS = Bellflower Sands

Bellflower Sand is equivalent to Middle Bellflower "C" Sand

** G-02WC is hydraulically consistent with the BFS, although it is screened 82-92 ft bgs and characterized as a MBFB sand well by Shell.

References:

1. Parcel Boundary Information from Los Angeles, CA, Department of Public Works Bureau of Engineering Online ArcInfo GIS database, Copyright 2012. Montrose Chemical Corporation Boundary Survey conducted August 13, 2001 by Dulin-Boynton Land Surveyors.
2. Avocet, 2014. September 2014 Annual Groundwater and GET System Performance Monitoring Report, Boeing Former C-6 Facility, 19502 Normandie Ave., Los Angeles, California.
3. Tetra Tech, 2014. 2014 Annual Groundwater Monitoring and Inspection Report, Former International Light Metals Facility, Torrance, California.
4. URS, 2015. 2014 Baseline Groundwater Monitoring Report, Dual Site Groundwater Operable Unit, Montrose Chemical and Del Amo Superfund Sites, Los Angeles, California.

Notes:

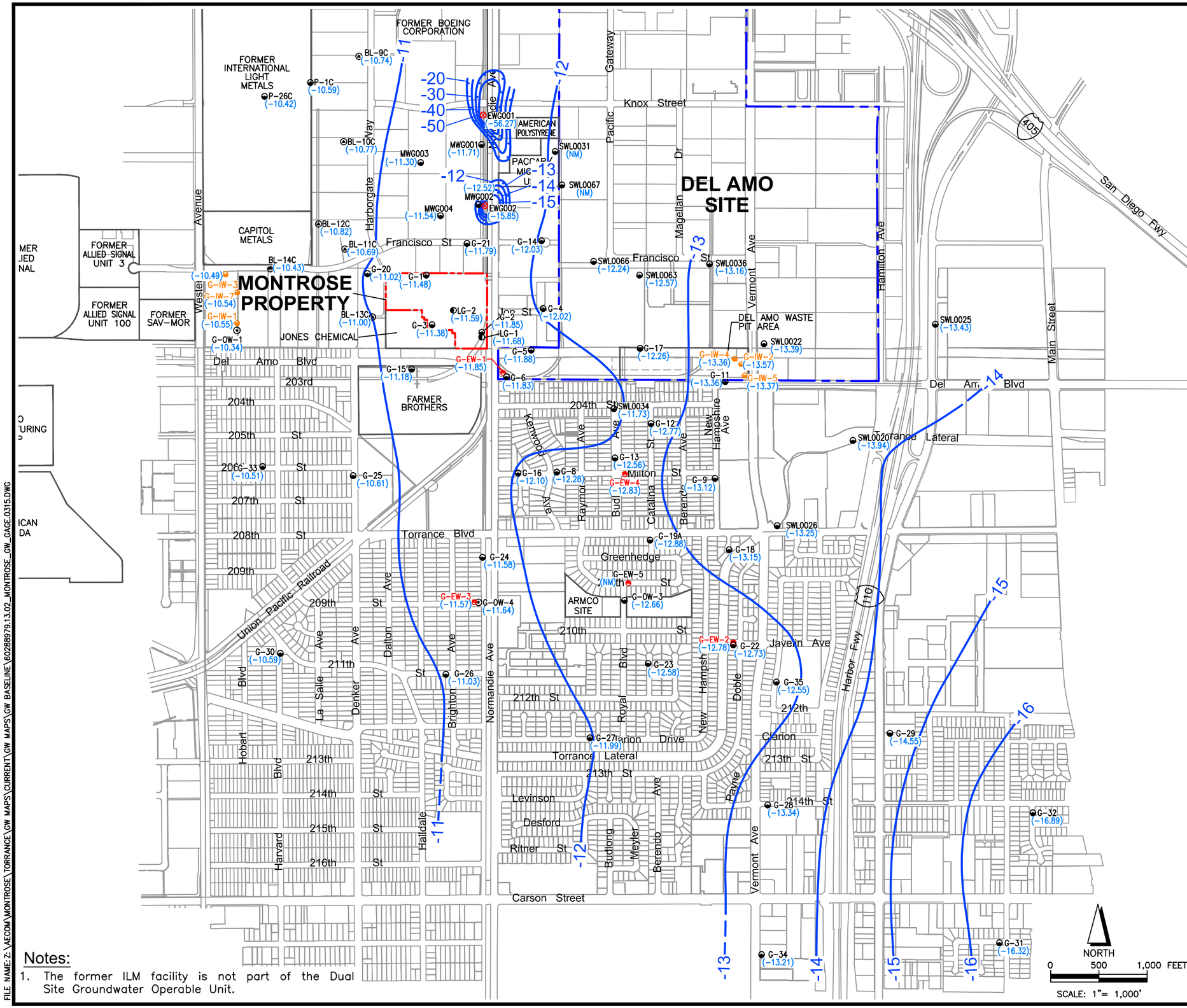
1. The former ILM facility is not part of the Dual Site Groundwater Operable Unit.

Montrose Chemical Corporation

pCBSA in MBFC Aquifer

Date: 03-15	Montrose Superfund Site	Figure
Project No. 60288979	AECOM	11

FILE NAME: Z:\AECOM\MONTROSE\TORRANCE\GW MAPS\CURRENT\GW MAPS\GW BASELINE\60288979.13.02_MONTROSE_PCBSA IN GW_MBFC BFS.0315.DWG



Legend:

- Location of Montrose Property Boundary
- Location of Del Amo Superfund Site Boundary

Well Legend:

G-13	Gage Groundwater Monitoring Well Location
G-OW-3	Gage Aquifer Observation Well
LG-2	Lower Gage Aquifer Monitoring Well
EGC003	Boeing Extraction Wells
G-EW-3	Montrose TGRS Extraction Wells
G-IW-3	Montrose TGRS Injection Wells
(-9.06)	Groundwater Elevation in Feet Mean Sea Level (MSL) Measured September 2014
(UTM)	Unable to Measure
-12.0	Interpreted Groundwater Elevation Contours in Feet (MSL.) Contour Intervals are 1.00 Feet

Well Identifier Notes:

G	=	Montrose Monitoring Wells
SWL	=	Del Amo Monitoring Wells
P	=	International Light Metals Monitoring Wells
MWG	=	Boeing Monitoring Wells
EWG, BL, IWG	=	Boeing Bioremediation Wells

References:

1. Parcel Boundary Information from Los Angeles, CA, Department of Public Works Bureau of Engineering Online ArcInfo GIS database, Copyright 2012. Montrose Chemical Corporation Boundary Survey conducted August 13, 2001 by Dulin–Boynton Land Surveyors.
2. Avocet, 2014. September 2014 Annual Groundwater and GET System Performance Monitoring Report, Boeing Former C–6 Facility, 19502 Normandie Ave., Los Angeles, California.
3. Tetra Tech, 2014. 2014 Annual Groundwater Monitoring and Inspection Report, Former International Light Metals Facility, Torrance, California.
4. URS, 2015. 2014 Baseline Groundwater Monitoring Report, Dual Site Groundwater Operable Unit, Montrose Chemical and Del Amo Superfund Sites, Los Angeles, California.

Notes:

1. The former ILM facility is not part of the Dual Site Groundwater Operable Unit.

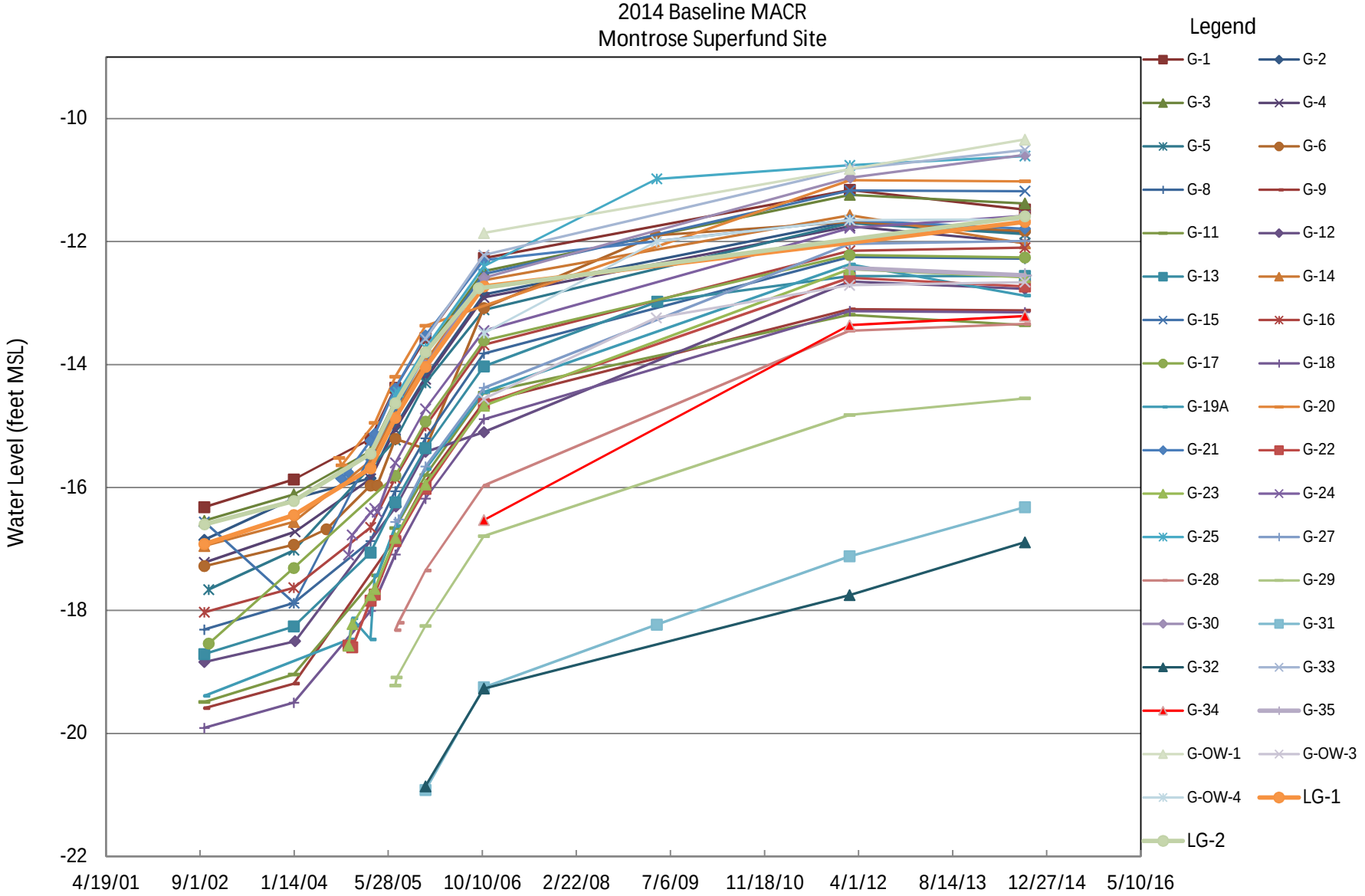
Montrose Chemical Corporation

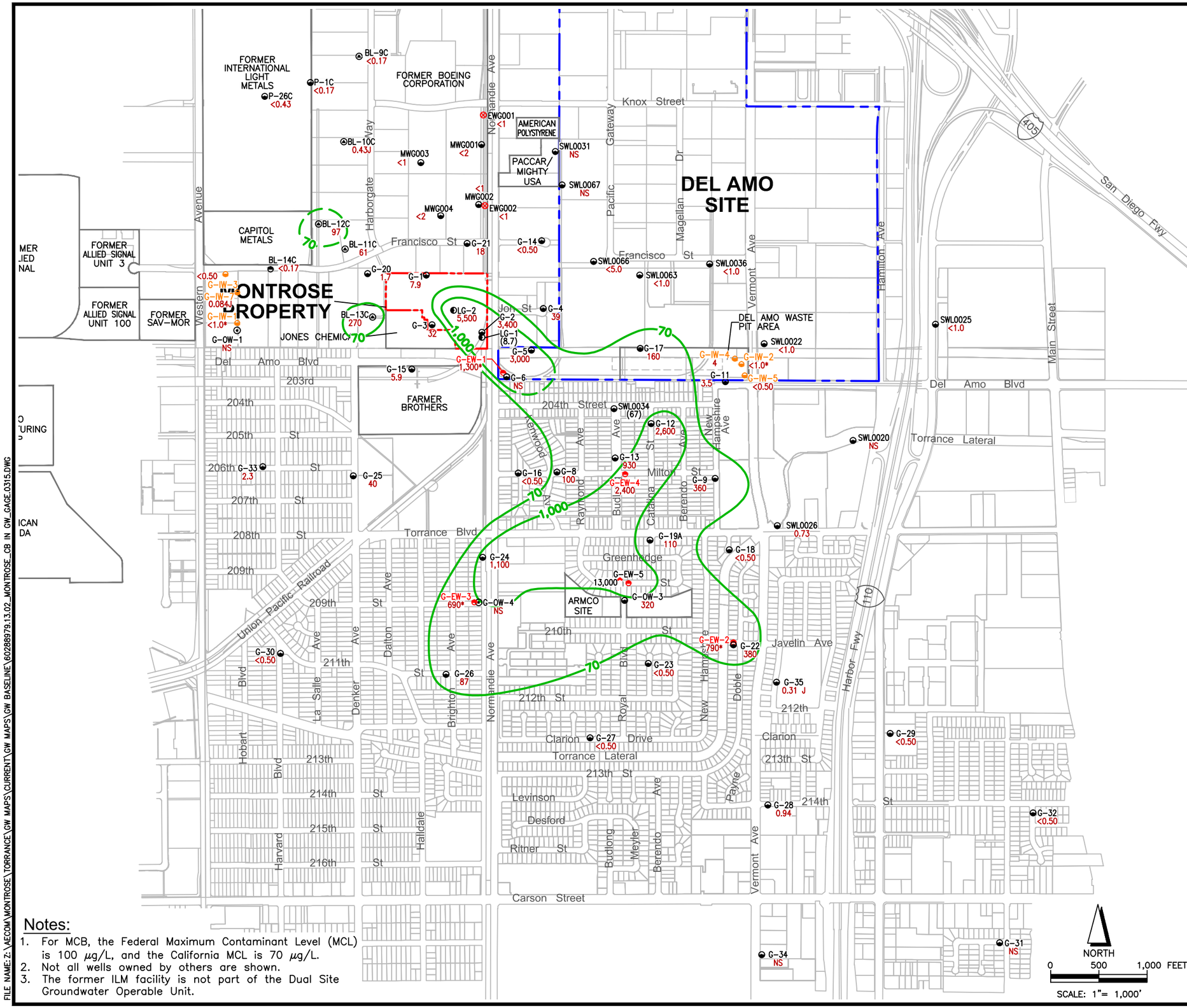
2014 Groundwater Elevations Map, Gage Aquifer

Date: 03-15	Montrose Superfund Site	Figure 12
Project No. 60288979	AECOM	

FILE NAME:Z:\AECOM\MONTROSE\TORRANCE\GW MAPS\CURRENT\GW MAPS\GW BASELINE\60288979.13.02_MONTROSE_GW_GAGE.0315.DWG

Figure 13
Water Level Hydrograph, Gage Aquifer
2014 Baseline MACR
Montrose Superfund Site





Legend:

- Location of Montrose Property Boundary
- Location of Del Amo Superfund Site Boundary

Well Legend:

G-13	Gage Groundwater Monitoring Well Location
G-OW-3	Gage Aquifer Observation Well
LG-2	Lower Gage Aquifer Monitoring Well
EGC003	Boeing Extraction Wells
G-EW-3	Montrose TGRS Extraction Wells
G-IW-3	Montrose TGRS Injection Wells
G-17 160	MCB concentration in micrograms per liter 2013 to October 2014
<0.50	Less than; Numerical value is the limit of detection for this analysis.
MCB	Chlorobenzene
(67)	Concentration not contoured
NS	Not Sampled
J	Estimated Value
*	TRGS well sample collected 2005 – 2012
^	G-EW-5 results are not representative of the Gage Aquifer and are not contoured
70	Contour line of equal concentration of MCB in micrograms per liter dashed where approximate, dashed where inferred

Well Identifier Notes:

G	= Montrose Monitoring Wells
SWL	= Del Amo Monitoring Wells
P	= International Light Metals Monitoring Wells
MWG	= Boeing Monitoring Wells
EWG, BL, IWG	= Boeing Bioremediation Wells

References:

1. Parcel Boundary Information from Los Angeles, CA, Department of Public Works Bureau of Engineering Online ArcInfo GIS database, Copyright 2012. Montrose Chemical Corporation Boundary Survey conducted August 13, 2001 by Dulin–Boynton Land Surveyors.
2. Avocet, 2014. September 2014 Annual Groundwater and GET System Performance Monitoring Report, Boeing Former C–6 Facility, 19502 Normandie Ave., Los Angeles, California.
3. Tetra Tech, 2014. 2014 Annual Groundwater Monitoring and Inspection Report, Former International Light Metals Facility, Torrance, California.
4. URS, 2015. 2014 Baseline Groundwater Monitoring Report, Dual Site Groundwater Operable Unit, Montrose Chemical and Del Amo Superfund Sites, Los Angeles, California.

Notes:

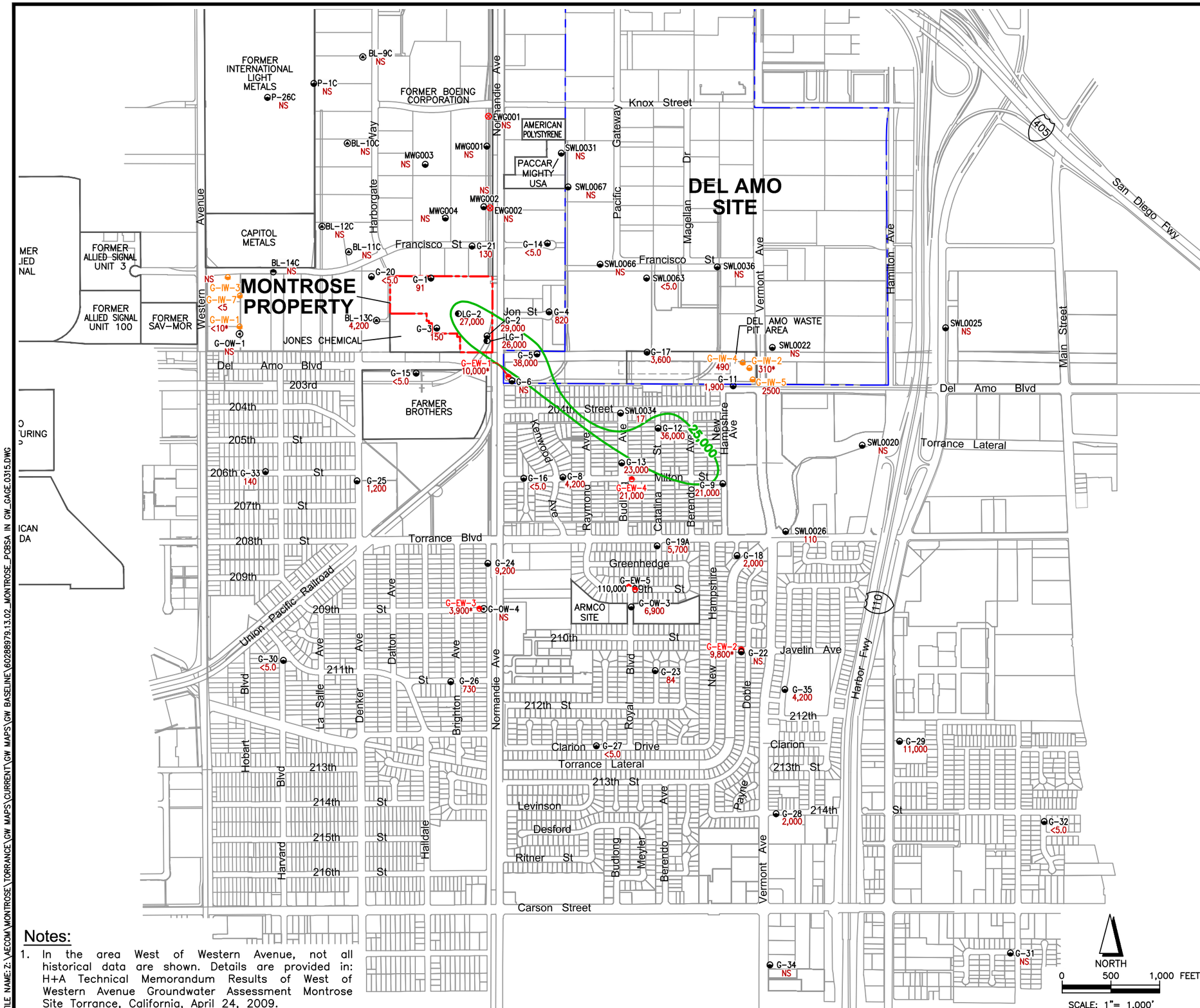
1. For MCB, the Federal Maximum Contaminant Level (MCL) is 100 $\mu g/L$, and the California MCL is 70 $\mu g/L$.
2. Not all wells owned by others are shown.
3. The former ILM facility is not part of the Dual Site Groundwater Operable Unit.

Montrose Chemical Corporation

Chlorobenzene in Gage Aquifer

Date: 03-15	Montrose Superfund Site	Figure 14
Project No. 60288979	AECOM	

FILE NAME: Z:\AECOM\MONTROSE\TORRANCE\GW MAPS\CURRENT\GW MAPS\GW BASELINE\60288979.13.02_MONTROSE_CB IN GW_GAGE.0315.DWG



Legend:

- Location of Current Montrose Property Boundary
- Location of Current Del Amo Superfund Site Boundary

Well Legend:

G-13	Gage Groundwater Monitoring Well Location
G-OW-3	Gage Aquifer Observation Well
LG-2	Lower Gage Aquifer Monitoring Well
EGC003	Boeing Extraction Wells
G-EW-3	Montrose TGRS Extraction Wells
G-IW-3	Montrose TGRS Injection Wells
G-17 3,600	pCBSA concentration in micrograms per liter 2013 to October 2014
<5.0	Less than; Numerical value is the limit of detection for this analysis.
pCBSA	4-Chlorobenzenesulfonic Acid
NA	Not Analyzed
*	TRGS well sample collected 2005 – 2012
^	G-EW-5 results are not representative of the Gage Aquifer and are not contoured
25,000	Contour line of equal concentration of pCBSA in micrograms per liter dashed where approximate, queried where inferred based on most recent sampling results.

Well Identifier Notes:

G	= Montrose Monitoring Wells
SWL	= Del Amo Monitoring Wells
P	= International Light Metals Monitoring Wells
MWG	= Boeing Monitoring Wells
EWG, BL, IWG	= Boeing Bioremediation Wells

Notes:

1. In the area West of Western Avenue, not all historical data are shown. Details are provided in: H+A Technical Memorandum Results of West of Western Avenue Groundwater Assessment Montrose Site Torrance, California, April 24, 2009.

References:

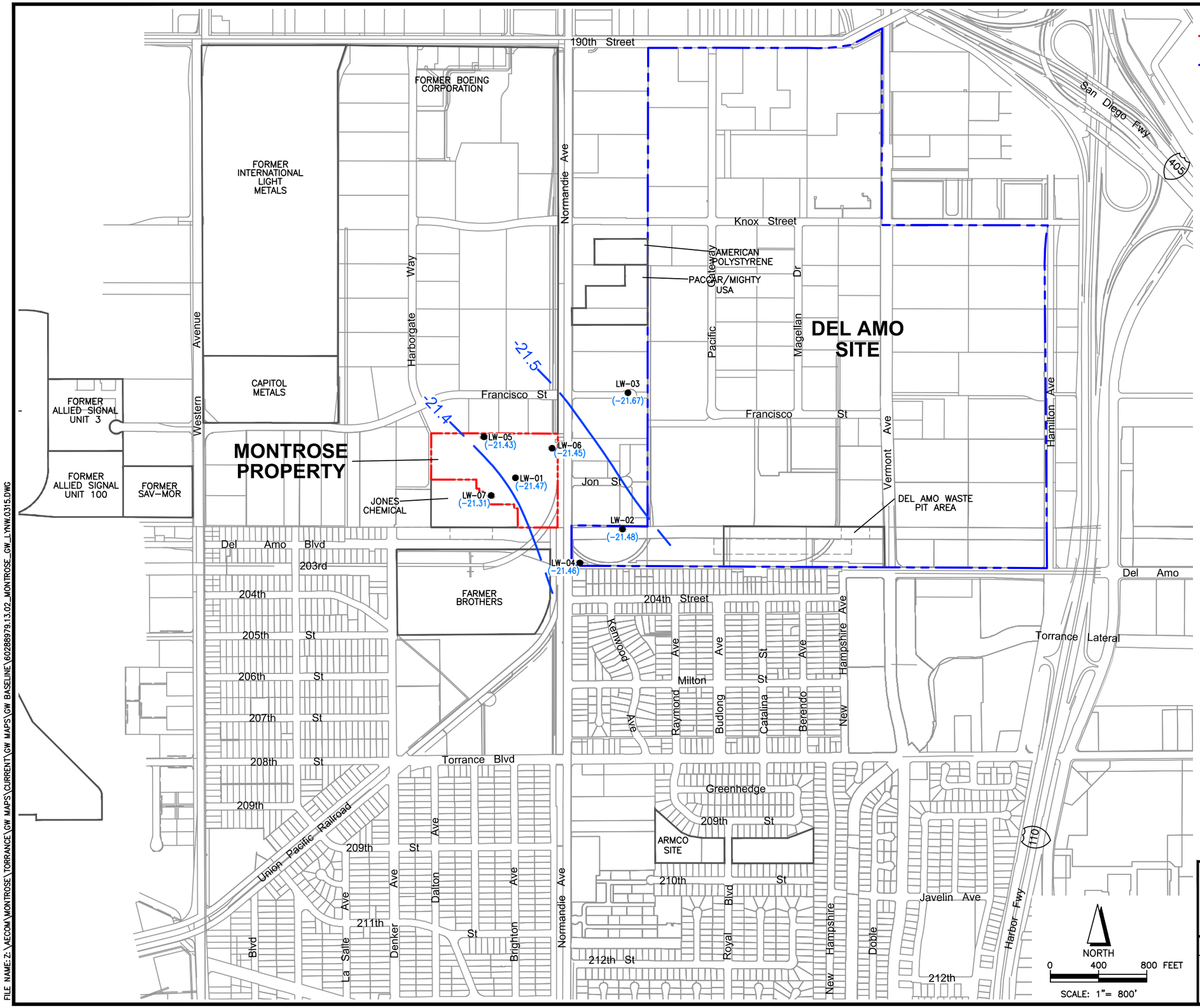
1. Parcel Boundary Information from Los Angeles, CA, Department of Public Works Bureau of Engineering Online ArcInfo GIS database, Copyright 2012. Montrose Chemical Corporation Boundary Survey conducted August 13, 2001 by Dulin–Boynton Land Surveyors.
2. Avocet, 2014. September 2014 Annual Groundwater and GET System Performance Monitoring Report, Boeing Former C–6 Facility, 19502 Normandie Ave., Los Angeles, California.
3. Tetra Tech, 2014. 2014 Annual Groundwater Monitoring and Inspection Report, Former International Light Metals Facility, Torrance, California.
4. URS, 2015. 2014 Baseline Groundwater Monitoring Report, Dual Site Groundwater Operable Unit, Montrose Chemical and Del Amo Superfund Sites, Los Angeles, California.

Montrose Chemical Corporation

pCBSA in Gage Aquifer

Date: 03-15	Montrose Superfund Site	Figure 15
Project No. 60288979	AECOM	

FILE NAME:Z:\AECOM\MONTROSE\TORRANCE\GW MAPS\CURRENT\GW MAPS\GW BASELINE\60288979.13.02_MONTROSE_PCBSA IN GW_GAGE.0315.DWG



Legend:

Location of Montrose Property Boundary

Location of Del Amo Superfund Site Boundary

Well Legend:

LW-03 Groundwater Monitoring Well Location

(-23.47) Groundwater Elevation in Feet Mean Sea Level (MSL) Measured September 2014

-21.5 Interpreted Groundwater Elevation Contours in Feet (MSL.) Contour Intervals are 0.10 Feet

Well Identifier Notes:
LW = Montrose Monitoring Wells

References:

1. Parcel Boundary Information from Los Angeles, CA, Department of Public Works Bureau of Engineering Online ArcInfo GIS database, Copyright 2012. Montrose Chemical Corporation Boundary Survey conducted August 13, 2001 by Dulin-Boynton Land Surveyors.

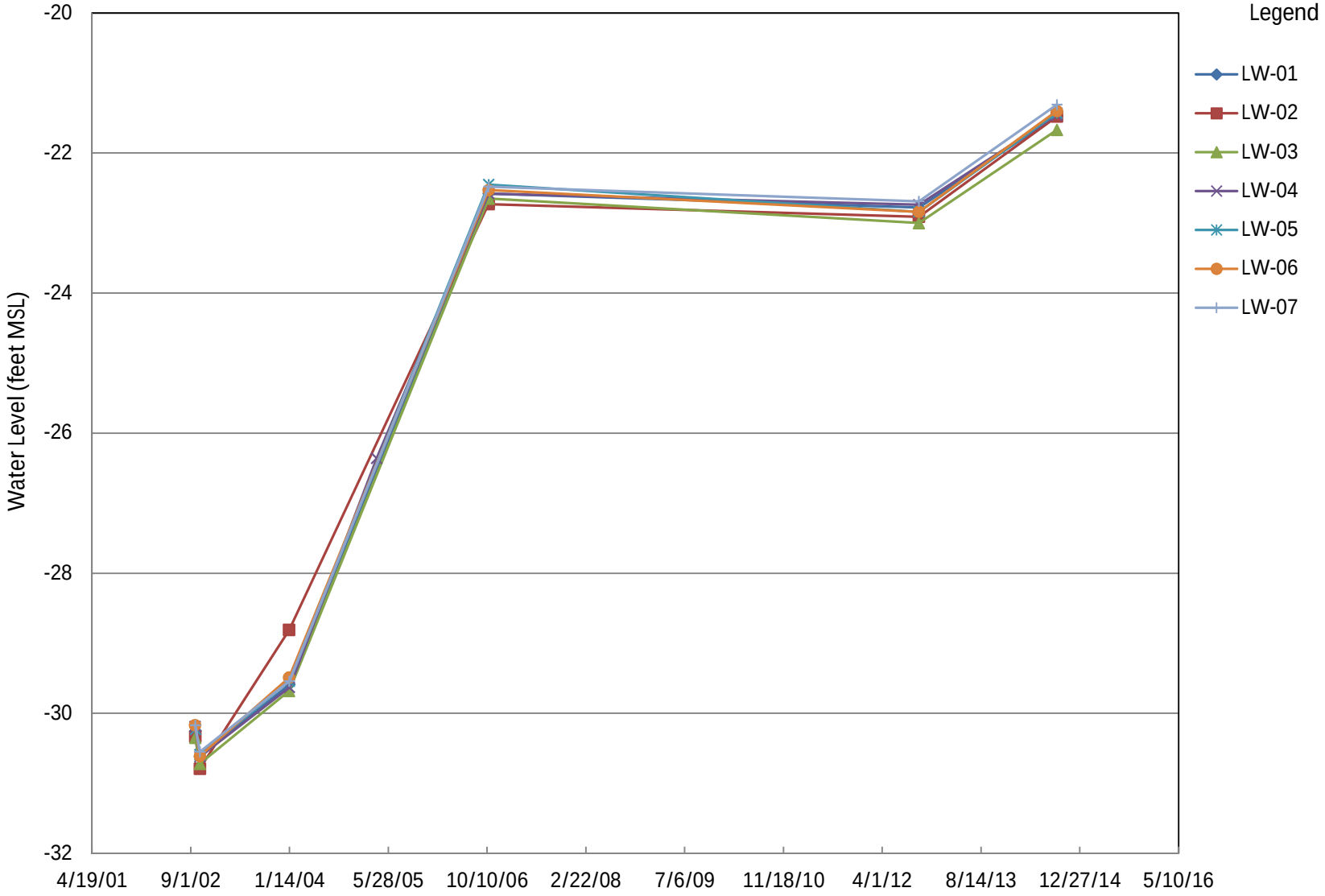
Montrose Chemical Corporation

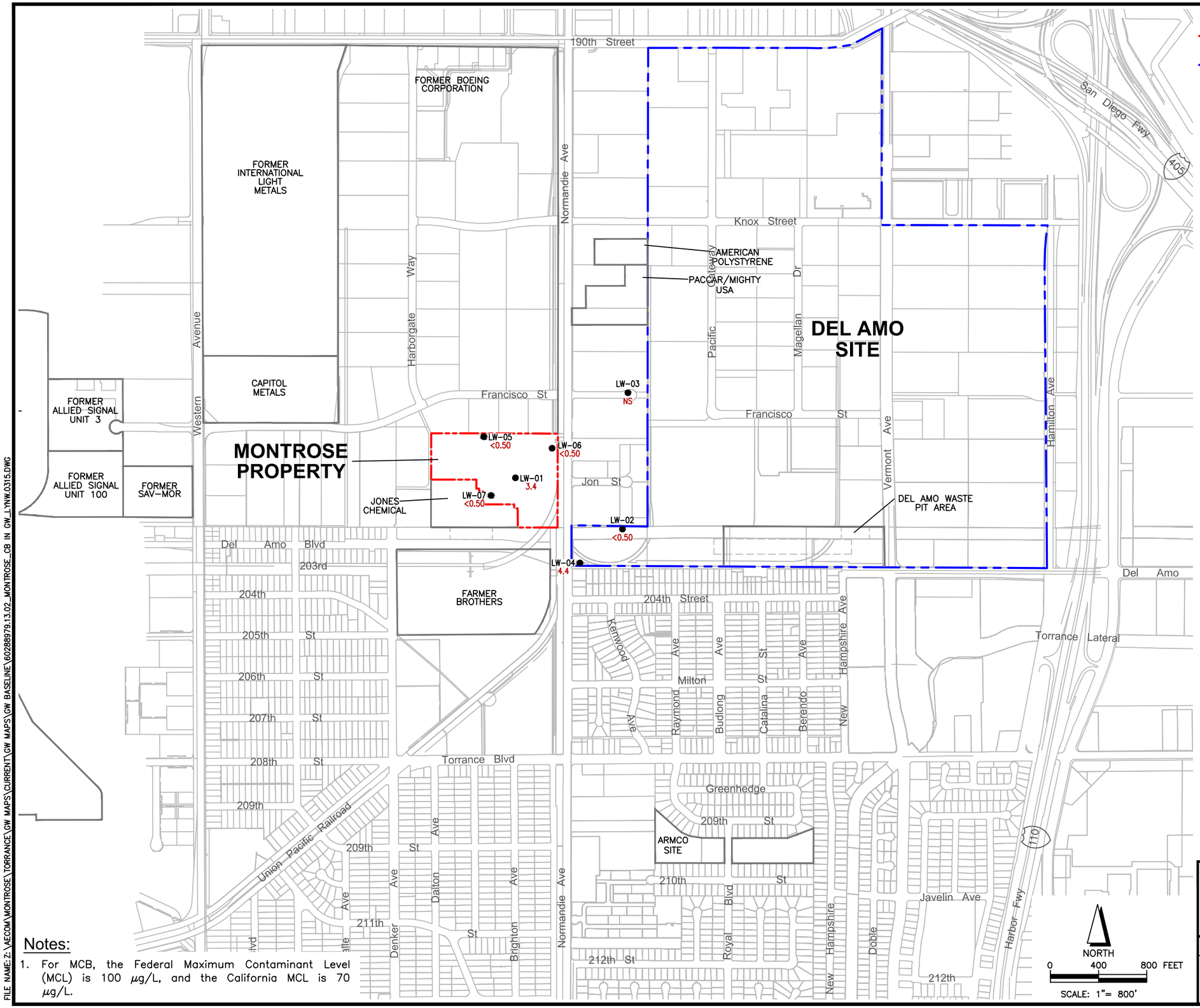
2014 Groundwater Elevations Map, Lynwood Aquifer

Date: 03-15	Montrose Superfund Site	Figure 16
Project No. 60288979	AECOM	

FILE NAME: Z:\AECOM\MONTROSE\TORRANCE\GW MAPS\CURRENT\GW MAPS\GW BASELINE\60288979.13.02_MONTROSE_GW_LYNW.0315.DWG

Figure 17
Water Level Hydrograph, Lynwood Aquifer
2014 Baseline MACR
Montrose Superfund Site





Legend:

- Location of Montrose Property Boundary
- Location of Del Amo Superfund Site Boundary

Well Legend:

LW-01●	Lynwood Aquifer Monitoring Well
<0.50	Less than; Numerical value is the limit of detection for this analysis.
LW-04 4.4	MCB concentration in micrograms per liter. 2013 to September 2014 Baseline Ground-water Monitoring Event. Most recent data shown.
NS	Not Sampled
MCB	Chlorobenzene

Well Identifier Notes:
LW = Montrose Monitoring Wells

Notes:

1. For MCB, the Federal Maximum Contaminant Level (MCL) is 100 $\mu g/L$, and the California MCL is 70 $\mu g/L$.

References:

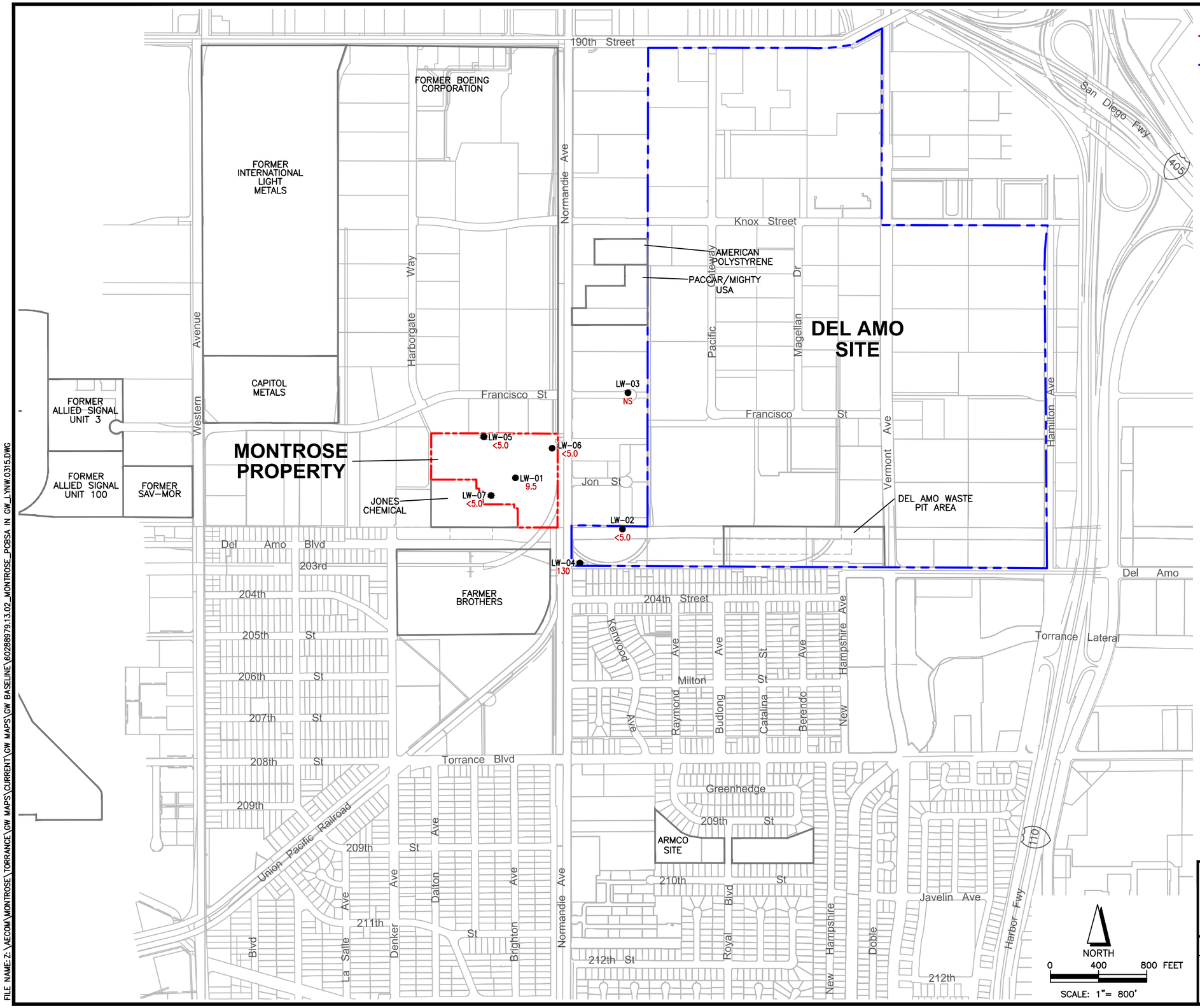
1. Parcel Boundary Information from Los Angeles, CA, Department of Public Works Bureau of Engineering Online ArcInfo GIS database, Copyright 2012. Montrose Chemical Corporation Boundary Survey conducted August 13, 2001 by Dulin-Boynton Land Surveyors.

Montrose Chemical Corporation

Chlorobenzene in Lynwood Aquifer

Date: 03-15	Montrose Superfund Site	Figure 18
Project No. 60288979	AECOM	

FILE NAME: Z:\AECOM\MONTROSE\TORRANCE\GW MAPS\CURRENT\GW MAPS\GW BASELINE\60288979.13.02_MONTROSE_CB IN GW_LYNW.0315.DWG



Legend:

- Location of Montrose Property Boundary
- Location of Del Amo Superfund Site Boundary

Well Legend:

LW-01●	Lynwood Aquifer Monitoring Well
<5.0	Less than; Numerical value is the limit of detection for this analysis.
LW-04 130	pCBSA concentration in micrograms per liter. Samples collected 2014
NS	Not Sampled
pCBSA	4-Chlorobenzenesulfonic Acid

Well Identifier Notes:
LW = Montrose Monitoring Wells

References:

1. Parcel Boundary Information from Los Angeles, CA, Department of Public Works Bureau of Engineering Online ArcInfo GIS database, Copyright 2012. Montrose Chemical Corporation Boundary Survey conducted August 13, 2001 by Dulin-Boynton Land Surveyors.

Montrose Chemical Corporation

pCBSA in Lynwood Aquifer

Date: 03-15	Montrose Superfund Site	Figure 19
Project No. 60288979	AECOM	

FILE NAME: Z:\AECOM\MONTROSE\TORRANCE\GW MAPS\CURRENT\GW MAPS\GW BASELINE\60288979.13.02_MONTROSE_PCBSA IN GW_LYNW.0315.DWG

APPENDIX A

LOW FLOW/MINIMAL DRAWDOWN WELL SAMPLING LOG

APPENDIX B

LABORATORY RESULTS AND ELECTRONIC DATA DELIVERABLES

APPENDIX C

DATA QUALITY ASSESSMENT AND DATA VALIDATION REPORT

APPENDIX D

CHLOROBENZENE
CONCENTRATION VS TIME GRAPHS
FOR SELECTED WELLS

APPENDIX A

LOW FLOW/MINIMAL DRAWDOWN WELL SAMPLING LOG

APPENDIX A

LOW FLOW/MINIMAL DRAWDOWN WELL SAMPLING LOG

UBF

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	NA (ambient)		NA (well mouth)
Static Levels:	NA (product)		53.02 (water)
Optimum Pump Rate (L/min)	0.2	Total Liters Extracted:	4
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 9	Discharge Time (sec): 6	Discharge Pressure (psi):	40
Sample No.	MW-1-20140910	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1,000		

Well Information		Equipment Information
Number:	MW-1	Interface Probe No.: **N/A**
Location:	Montrose Property	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	67 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing I	42.77 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	73.11 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	63-73 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
15:35	0.200	9	6	40	--	--	--	--	--	--	0.0	53.02	Purged one liter prior to collecting readings.
15:40	0.200	9	6	40	24.90	7.32	4.899	1.06	43	-42	1.0	53.02	Clear. No odor.
15:45	0.200	9	6	40	24.80	7.28	5.239	0.50	32	-44	2.0	53.02	Clear. No odor.
15:50	0.200	9	6	40	24.70	7.27	5.364	0.31	21	-45	3.0	53.02	Clear. No odor.
15:55	0.200	9	6	40	24.70	7.27	5.363	0.29	19	-45	4.0	53.02	Clear. No odor.
16:00	--	--	--	--	--	--	--	--	--	--	--	--	Sample Collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By N. DiPietro Date 9/10/2014

Checked By K.Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		59.07 (water)
Optimum Pump Rate (L/min)	0.2	Total Liters Extracted:	4
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	18.03 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	40
Sample No.	MW-2-20140910	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1,000		

Well Information		Equipment Information
Number:	MW-2	Interface Probe No.: **N/A**
Location:	Montrose Property	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	70 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	48.73 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	77.1 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	66.7-76.7 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
14:36	0.200	10	5	40	--	--	--	--	--	--	0	59.07	Purged one liter prior to collecting readings.
14:41	0.200	10	5	40	27.16	7.31	5.661	1.01	23	79	1.0	59.07	Clear. Slight Chemical Odor.
14:46	0.200	10	5	40	27.16	7.29	5.554	0.59	20	85	2.0	59.07	Clear. Slight Chemical Odor.
14:51	0.200	10	5	40	27.38	7.28	5.536	0.54	21	87	3.0	59.07	Clear. Slight Chemical Odor.
14:56	0.200	10	5	40	27.39	7.29	5.528	0.54	23	89	4.0	59.07	Clear. Slight Chemical Odor.
15:01	--	--	--	--	--	--	--	--	--	--	--	--	Sample Collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By N. DiPietro/D. Cebra Date 9/10/2014

Checked By K.Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		56.91 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	5
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	18.39 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	45
Sample No.	MW-4-20140909	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	MW-4	Interface Probe No.: **N/A**
Location:	Montrose Property	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	70 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	46.69 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	75.3 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	64.9-74.9 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
14:45	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
14:49	0.300	10	5	45	26.22	6.33	1.952	3.11	2	13	1.0	56.91	Clear. No odor.
14:52	0.300	10	5	45	24.88	6.09	1.955	1.15	2	9	1.9	56.91	Clear. No odor.
14:53	0.300	10	5	45	24.25	6.02	1.953	0.82	2	2	2.8	56.91	Clear. No odor.
14:56	0.300	10	5	45	23.98	6.00	1.951	0.64	3	0	3.7	56.91	Clear. No odor.
14:59	0.300	10	5	45	23.98	6.01	1.950	0.63	2	0	4.6	56.91	Clear. No odor.
15:02	0.300	10	5	45	23.97	6.01	1.951	0.63	2	0	5.5	56.91	Clear. No odor.
15:07	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By D. Cebra Date 9/9/2014

Checked By K.Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		55.31 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	6
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	18.01 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	40
Sample No.	MW-5-20140908	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	MW-5	Interface Probe No.: **N/A**
Location:	Montrose Property	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	67 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	44.95 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	73.32 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	61.5-72.5 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
13:01	--	--	--	--	--	--	--	--	--	--	0.0	55.31	Purged one liter prior to collecting readings.
13:05	0.300	11	9	40	24.520	6.790	2.615	1.050	3.1	16	1.0	55.32	Clear. No odor.
13:08	0.300	11	9	40	24.39	6.71	2.679	0.81	1.0	13	1.9	55.32	Clear. No odor.
13:11	0.300	11	9	40	24.45	6.69	2.686	0.75	<1	13	2.8	55.32	Clear. No odor.
13:14	0.300	11	9	40	24.49	6.66	2.692	0.69	<1	13	3.7	55.32	Clear. No odor.
13:17	0.300	11	9	40	24.55	6.65	2.692	0.69	<1	14	4.6	55.32	Clear. No odor.
13:18	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

Recorded By R. Matchett Date 9/8/2014

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		55.82 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	6
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	23.93 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 9.5	Discharge Time (sec): 5.5	Discharge Pressure (psi):	90
Sample No.	MW-6-20140909	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1,500		

Well Information		Equipment Information
Number:	MW-6	Interface Probe No.: **N/A**
Location:	LADWP-W	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	70 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	45.68 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	79.75 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	65-80 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
15:11	0.300	9.5	5.5	90	--	--	--	--	--	--	0	55.82	Purged one liter prior to collecting readings.
15:16	0.300	9.5	5.5	90	25.72	7.74	6.194	2.99	7	79	1.5	55.82	Clear. No odor.
15:21	0.300	9.5	5.5	90	24.52	7.61	6.258	2.50	8	76	3.0	55.82	Clear. No odor.
15:26	0.300	9.5	5.5	90	24.40	7.50	6.352	2.49	7	86	4.5	55.82	Clear. No odor.
15:31	0.300	9.5	5.5	90	24.24	7.49	6.348	2.38	8	86	6.0	55.82	Clear. No odor.
15:36	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

Recorded By N. DiPietro Date 9/9/2014

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		60.82 (water)
Optimum Pump Rate (L/min)	0.35	Total Liters Extracted:	4
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	20.04 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	65
Sample No.	MW-9-20140904; MW-900-20140904	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	MW-9	Interface Probe No.: **N/A**
Location:	GLJ	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	72 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	50.76 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	81 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	66-81 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
10:08	0.350	10	5	65	--	--	--	--	--	--	--	60.96	Purged one liter prior to collecting readings.
10:11	0.350	10	5	65	22.40	6.30	2.498	0.76	97	0.0	1.0	60.96	Clear. No odor.
10:14	0.350	10	5	65	22.23	6.27	2.524	0.64	82	0.6	2.0	60.96	Clear. No odor.
10:17	0.350	10	5	65	22.34	6.29	2.535	0.51	64	-0.1	3.0	60.96	Clear. No odor.
10:20	0.350	10	5	65	22.36	6.32	2.536	0.50	59	-0.2	4.0	60.96	Clear. No odor.
10:23	0.350	10	5	65	22.38	6.31	2.538	0.50	60	-0.2	5.0	60.96	Clear. No odor.
10:25	--	--	--	--	--	--	--	--	--	--	--	--	Sample Collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By E. SMITH Date 9/5/2014

Checked By _____ Date _____

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		53.60 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	23.40 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 13	Discharge Time (sec): 7	Discharge Pressure (psi):	40
Sample No.	MW-10-20140908	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	MW-10	Interface Probe No.: **N/A**
Location:	Francisco, E of Normandie	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	70 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	43.2 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	77 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	62-77 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
11:56	--	--	--	--	--	--	--	--	--	--	0.0	53.60	Purged one liter prior to collecting readings.
12:00	0.300	13	7	40	23.36	6.93	2.498	0.90	4	-38	1.0	53.62	Clear. No Odor.
12:03	0.300	13	7	40	23.19	6.89	2.497	0.60	2	-33	1.9	53.63	Clear. No Odor.
12:06	0.300	13	7	40	23.16	6.87	2.496	0.55	4	-31	2.8	53.63	Clear. No Odor.
12:09	0.300	13	7	40	23.13	6.86	2.495	0.54	3	-30	3.7	53.63	Clear. No Odor.
12:12	0.300	13	7	40	23.14	6.86	2.494	0.54	4	-30	4.6	53.63	Clear. No Odor.
12:13	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

Recorded By R. Matchett Date 9/8/2014

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		52.98 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	5
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	24.02 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	55
Sample No.	MW-11-20140909	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	MW-11	Interface Probe No.: **N/A**
Location:	Jon St, E of Normandie	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	70 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	42.69 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	77 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	62-77 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
12:12	--	--	--	--	--	--	--	--	--	--	--	52.98	Purged one liter prior to collecting readings.
12:16	0.300	11	9	55	25.46	6.71	2.252	2.09	11	-11	1.0	53.10	Clear. No Odor. Black particles.
12:19	0.300	11	9	55	24.54	6.73	2.23	0.59	21	-12	1.9	53.10	Clear. No Odor.
12:22	0.300	11	9	55	24.61	6.75	2.198	0.31	27	-17	2.8	53.10	Clear. No Odor.
12:25	0.300	11	9	55	24.59	6.76	2.197	0.30	26	-18	3.7	53.10	Clear. No Odor.
12:28	0.300	11	9	55	24.48	6.77	2.197	0.29	24	-18	4.6	53.10	Clear. No Odor.
12:29	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

Recorded By R. Matchett Date 9/9/2014

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		50.32 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	25.68 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	50
Sample No.	BF-10-20140904	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	MW-12	Interface Probe No.: **N/A**
Location:	Jon St, E of Normandie	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	69 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	40.17 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	76 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	61-76 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
10:55	--	--	--	--	--	--	--	--	--	--	--	50.32	Purged one liter prior to collecting readings.
10:59	0.300	11	9	50	24.04	6.55	1.445	0.87	28	-66	1.0	50.45	Clear. No Odor.
11:02	0.300	11	9	50	24.01	6.56	1.404	0.66	29	-70	1.9	50.45	Clear. No Odor.
11:05	0.300	11	9	50	23.89	6.63	1.334	0.63	28	-73	2.8	50.45	Clear. No Odor.
11:08	0.300	11	9	50	23.85	6.65	1.328	0.59	28	-75	3.7	50.45	Clear. No Odor.
11:11	0.300	11	9	50	23.82	6.67	1.325	0.58	29	-74	4.6	50.45	Clear. No Odor.
11:12	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

Recorded By R. Matchett Date 9/9/2014

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		51.40 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.5
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	26.60 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	60
Sample No.	MW-16-20140909	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	150		

Well Information		Equipment Information
Number:	MW-16	Interface Probe No.: **N/A**
Location:	RockTenn	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	65 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	41.31 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	78 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	59-76 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
11:11	--	--	--	--	--	--	--	--	--	--	--	51.40	Purged one liter prior to collecting readings.
11:15	0.300	10	5	60	24.41	7.56	0.947	0.85	21	-37	1.0	51.45	Clear, with yellow tint. No Odor.
11:20	0.300	10	5	60	24.20	7.49	0.959	0.74	18	-33	1.5	51.45	Clear, with yellow tint. No Odor.
11:25	0.300	10	5	60	24.09	7.44	0.979	0.67	17	-30	3.0	51.45	Clear, with yellow tint. No Odor.
11:30	0.300	10	5	60	23.96	7.40	1.014	0.60	16	-27	4.5	51.45	Clear, with yellow tint. No Odor.
11:35	--	--	--	--	--	--	--	--	--	--	--	--	Clear, with yellow tint. No Odor.
													Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By N. Di Pietro Date 9/9/2014

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		56.75 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	5
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	20.15 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	60
Sample No.	MW-19-20140909	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	MW-19	Interface Probe No.: **N/A**
Location:	SunRider	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	71 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	46.65 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	76.9 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	63-79 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
8:47	--	--	--	--	--	--	--	--	--	--	0.0	56.75	Purged one liter prior to collecting readings.
8:51	0.300	11	9	60	24.56	6.890	3.315	1.49	772	45	1.0	56.85	Clear, with rust color. No Odor.
8:54	0.300	11	9	60	24.13	6.95	3.092	1.02	612	39	1.9	56.87	Clear, with rust color. No Odor.
8:57	0.300	11	9	60	24.11	7.02	2.923	0.99	139	39	2.8	86.88	Clear, with rust color. No Odor.
9:00	0.300	11	9	60	24.09	7.02	2.918	0.97	140	39	3.7	86.88	Clear, with rust color. No Odor.
9:03	0.300	11	9	60	24.11	7.03	2.912	0.95	138	38	4.6	86.88	Clear, with rust color. No Odor.
9:04	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/9/2014

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	**Montrose Superfund- 2014 Baseline GWM**	Project No.:	**60288979.13.02**
PID/FID Readings:	0 (ambient)	0 (well mouth)	
Static Levels:	NA (product)	**52.15** (water)	
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	**5**
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	21.85 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	60
Sample No.	MW-22-20140909	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	150		

Well Information		**Equipment Information**
Number:	**MW-22**	Interface Probe No.: **N/A**
Location:	**Prologis II ,**	Sounder No.: **Solinst**
Site:	**Montrose Superfund Site**	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	65 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	41.85 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	74 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	57-73 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
13:18	--	--	--	--	--	--	--	--	--	--	0.0	52.15	Purged one liter prior to collecting readings.
13:23	0.3	10	5	60	23.43	8.11	1.388	3.37	66	74	1.5	52.15	Clear. No Odor.
13:28	0.3	10	5	60	22.98	7.90	1.382	3.05	66	75	3.0	52.15	Clear. No Odor.
13:33	0.3	10	5	60	22.89	7.85	1.388	2.95	64	73	4.5	52.15	Clear. No Odor.
13:38	--	--	--	--	--	--	--	--	--	--	--	52.15	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

Recorded By N. Di Pietro Date 9/9/2014

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		46.81 (water)
Optimum Pump Rate (L/min)		Total Liters Extracted:	5.0
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	27.99 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	110
Sample No.	MW-23-20140905	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1250/50		

Well Information		Equipment Information
Number:	MW-23	Interface Probe No.: **N/A**
Location:	Budlong, N of Milton	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	65 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	36.35 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	74.8 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	60-75 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
8:55	--	--	--	--	--	--	--	--	--	--	0.0	46.81	Purged one liter prior to collecting readings.
9:03	0.250	10	5	110	22.45	6.87	3.121	3.64	93	137	1.3	47.10	Slightly silty with rust - like tint. No Odor.
9:06	0.250	10	5	110	22.38	6.97	3.151	3.86	94	131	2.5	47.68	Slightly silty with rust - like tint. No Odor.
9:10	0.100	10	5	90	22.65	6.89	3.149	3.39	100	130	3.0	47.60	Slightly silty with rust - like tint. No Odor.
9:13	0.100	10	5	90	22.75	6.90	3.149	3.25	122	132	3.5	47.56	Slightly silty with rust - like tint. No Odor.
9:16	0.100	10	5	90	22.95	6.90	3.149	3.19	152	134	4.0	47.55	Slightly silty with rust - like tint. No Odor.
9:19	0.100	10	5	90	23.12	6.90	3.150	3.18	136	135	4.5	47.52	Slightly silty with rust - like tint. No Odor.
9:30	--	--	--	--	--	--	--	--	--	--	5.0	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

Recorded By M. Worsopp Date 9/5/2014

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		34.41 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	6.0
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	33.59 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10.5	Discharge Time (sec): 4.5	Discharge Pressure (psi):	120
Sample No.	MW-24-20140905	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	MW-24	Interface Probe No.: **N/A**
Location:	Milton, E of Kenwood	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	55 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	22.4 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	68 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	49-64 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
8:02	--	--	--	--	--	--	--	--	--	--	0.0	34.45	Purged one liter prior to collecting readings.
8:07	0.300	10.5	4.5	120	22.36	6.98	3.324	2.30	11	137	1.5	34.45	Clear. No Odor.
8:13	0.300	10.5	4.5	120	22.32	7.06	3.241	1.53	12	126	3.0	34.46	Clear. No Odor.
8:18	0.300	10.5	4.5	120	22.31	7.29	3.216	0.55	13	112	4.5	34.46	Clear. No Odor.
8:23	0.300	10.5	4.5	120	22.30	7.36	3.219	0.49	12	108	6.0	34.46	Clear. No Odor.
8:28	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

Recorded By N. DiPietro Date 9/5/2014

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		48.35 (water)
Optimum Pump Rate (L/min)	0.05	Total Liters Extracted:	13.0
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	24.90 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 9.5	Discharge Time (sec): 5.5	Discharge Pressure (psi):	9.5
Sample No.	MW-26-20140904	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	0.25		

Well Information		Equipment Information
Number:	MW-26	Interface Probe No.: **N/A**
Location:	Milton, E of Normandie	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	65 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	39.17 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	73.25 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	59-74 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
14:15	--	--	--	--	--	--	--	--	--	--	0.0	48.35	Purged one liter prior to collecting readings.
14:18	0.050	9.5	5.5	80	23.66	7.37	1.819	0.66	6	7	0.0	48.39	Clear. No Odor.
14:23	0.050	9.5	5.5	80	22.92	6.89	1.937	0.66	7	4	7.0	48.39	Clear. No Odor.
14:28	0.050	9.5	5.5	80	22.82	6.85	1.990	0.62	7	2	9.0	48.39	Clear. No Odor.
14:33	0.050	9.5	5.5	80	22.77	6.82	2.129	0.64	7	2	11.0	48.39	Clear. No Odor.
14:38	0.050	9.5	5.5	80	22.77	6.82	2.131	0.65	6	2	13.0	48.39	Clear. No Odor.
14:43	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

Recorded By N. DiPietro Date 9/4/2014

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		47.88 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	9.0
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	21.63 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	100
Sample No.		Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1500		

Well Information		Equipment Information
Number:	MW-30	Interface Probe No.: **N/A**
Location:	Raymond, S of 204th	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	60 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	37.59 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	69.51 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	54-70 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
10:45	--	--	--	--	--	--	--	--	--	--	--	47.88	Purged one liter prior to collecting readings.
10:50	0.300	10	5	100	24.68	6.86	2.532	4.35	63	32	1.5	47.88	Clear, with rust color. No Odor.
10:53	0.300	10	5	100	23.56	6.80	2.739	2.62		62	3	48.04	Clear, with rust color. No Odor.
10:57	0.300	10	5	100	23.42	6.77	2.779	2.19	95	73	5	48.10	Clear, with rust color. No Odor.
11:00	0.300	10	5	100	23.32	6.78	2.781	2.07	84	78	6	48.10	Clear, with rust color. No Odor.
11:03	0.300	10	5	100	23.36	6.78	2.773	1.980	70	81	8	48.10	Clear, with rust color. No Odor.
11:06	0.300	10	5	100	23.20	6.78	2.772	1.920	59	83	9	48.10	Clear, with rust color. No Odor.
11:10	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

Recorded By M. Worsnopp Date 9/5/2014

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		43.60 (water)
Optimum Pump Rate (L/min)	0.3	Total gallons Extracted:	12.0
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	20.40 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): NA	Discharge Time (sec): NA	Discharge Pressure (psi):	NA
Sample No.	SWL0049-20140930	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	NA		

Well Information		Equipment Information
Number:	SWL0049	Interface Probe No.: **N/A**
Location:	204th St	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	56 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	33.16 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	64 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	42-62 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (gpm)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Gallons Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
14:48	0.5	--	--	--	--	--	--	--	--	--	0	43.60	Dedicated Pump. Begin Purge.Control box set at 159hz
14:56	0.5	--	--	--	24.00	6.57	2.085	0.75	1.4	43	4.0	43.78	Clear. Slight Chemical Odor
15:00	0.5	--	--	--	23.56	6.51	2.558	0.38	<1	24	6	43.79	Clear. Slight Chemical Odor
15:04	0.5	--	--	--	23.56	6.51	2.838	0.34	<1	17	8	43.80	Clear. Slight Chemical Odor
15:08	0.5	--	--	--	23.55	6.52	2.948	0.26	<1	-15	10	43.80	Clear. Moderate Chemical Odor
15:12	0.5	--	--	--	23.55	6.52	2.977	0.23	<1	-24	12	43.80	Clear. Moderate Chemical Odor
15:14	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Recorded By T. Peterson Date 9/30/2014

Checked By K.Carr Green Date 10/9/2014

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		43.71 (water)
Optimum Pump Rate (L/min)	0.3	Total gallons Extracted:	18.0
Disposal of Discharge Water:	On Site Temporary System		
Water Column Length:	20.40 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): NA	Discharge Time (sec): NA	Discharge Pressure (psi):	NA
Sample No.	SWL0049-20141031	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	NA		

Well Information		Equipment Information
Number:	SWL0049	Interface Probe No.: **N/A**
Location:	204th St	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	56 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	33.16 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	64 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	42-62 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (gpm)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Gallons Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
13:28	1	--	--	--	--	--	--	--	--	--	0	43.71	Dedicated Pump. Begin Purge.Control box set at 160hz
13:31	1	--	--	--	23.90	6.81	2.10	1.23	1.4	15	3.0	43.88	Clear. Strong Chemical Odor.
13:33	1	--	--	--	23.82	6.47	2.56	0.80	<1	10	8	43.90	Clear. Moderate Chemical Odor.
13:37	1	--	--	--	23.3	6.45	2.62	0.40	<1	7	12	43.90	Clear. Moderate Chemical Odor.
13:40	1	--	--	--	23.3	6.42	2.63	0.32	<1	-8	15	43.91	Clear. Moderate Chemical Odor.
13:43	1	--	--	--	23.27	6.40	2.68	0.23	<1	-16	18	43.90	Clear. Moderate Chemical Odor.
13:45	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Recorded By T. Peterson Date 10/31/2014

Checked By K.Carr Green Date 11/4/2014

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

APPENDIX A

LOW FLOW/MINIMAL DRAWDOWN WELL SAMPLING LOG

MBFC

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		59.82 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	68.18 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 7.5	Discharge Time (sec): 7.5	Discharge Pressure (psi):	120
Sample No.	BF-2-20140910	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	150		

Well Information		Equipment Information
Number:	BF-2	Interface Probe No.: **N/A**
Location:	Montrose	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	120 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	49.50 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	128 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	114-124 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
9:20	0.300	9.5	5.5	60	--	--	--	--	--	--	0.0	59.82	Purged one liter prior to collecting readings.
9:25	0.300	9.5	5.5	60	23.70	9.21	1.483	0.3	7	-131	1.5	59.82	Clear. No odor.
9:30	0.300	9.5	5.5	60	23.89	9.19	1.482	0.21	7	-170	3.0	59.82	Clear . Slight chemical odor.
9:35	0.300	9.5	5.5	60	23.65	9.14	1.456	0.17	6	-189	4.5	59.82	Clear . Slight chemical odor.
9:40	0.300	9.5	5.5	60	23.59	9.13	1.439	0.15	4	-206	6.0	59.82	Clear . Slight chemical odor.
9:45	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By D. Cebra/N. Di Pietro Date 9/10/2014

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		58.84 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	5
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	65.16 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	70
Sample No.	BF-3-20140908	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	BF-3	Interface Probe No.: **N/A**
Location:	Montrose	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	120 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	48.27 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	124 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	113.5-124 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
13:36	--	--	--	--	--	--	--	--	--	--	0.0	58.84	Purged one liter prior to collecting readings.
13:40	0.300	11	9	70	24.10	7.52	0.929	0.44	84	23	1.0	58.86	Clear. No odor.
13:43	0.300	11	9	70	24.08	7.75	0.882	0.31	55	26	1.9	58.86	Clear. No odor.
13:46	0.300	11	9	70	24.01	7.87	0.867	0.27	44	23	2.8	58.86	Clear. No odor.
13:49	0.300	11	9	70	24.00	7.89	0.864	0.26	45	21	3.7	58.86	Clear. No odor.
13:52	0.300	11	9	70	23.99	7.90	0.863	0.25	44	21	4.6	58.86	Clear. No odor.
13:53	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/8/2014

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		58.03 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	67.97 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	75
Sample No.	BF-4-20140909	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	BF-4	Interface Probe No.: **N/A**
Location:	Montrose	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	120 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	47.64 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	126 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	112-123 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
15:14	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
15:18	0.300	11	9	75	24.61	7.12	0.735	1.19	8	18	1.0	58.03	Clear. No odor.
15:21	0.300	11	9	75	24.59	7.09	0.732	1.11	6	18	1.9	58.03	Clear. No odor.
15:24	0.300	11	9	75	24.56	7.07	0.731	1.07	7	18	2.8	58.03	Clear. No odor.
15:27	0.300	11	9	75	24.50	7.06	0.730	1.09	5	18	3.7	58.03	Clear. No odor.
15:28	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

Recorded By D. Cebra/ R. Matchett Date 9/9/2014

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		50.09 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	81.91 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	75
Sample No.	BF-5-20140909	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	BF-5	Interface Probe No.: **N/A**
Location:	Jon St, E of Normandie	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	127 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	39.37 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	132 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	122-132 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
11:20	--	--	--	--	--	--	--	--	--	--	0.000	50.09	Purged one liter prior to collecting readings.
11:24	0.300	11	9	75	25.44	7.40	0.557	2.19	8	5.1	1.0	50.16	Clear. No odor.
11:27	0.300	11	9	75	25.38	7.21	0.547	1.32	9	0.6	1.9	50.16	Clear. No odor.
11:30	0.300	11	9	75	25.48	7.23	0.548	1.31	9	-42	8.8	50.16	Clear. No odor.
11:33	0.300	11	9	75	25.52	7.24	0.548	1.32	8	-46	3.7	50.16	Clear. No odor.
11:36	0.300	11	9	75	25.67	7.24	0.548	1.32	6	-48	4.6	50.16	Clear. No odor.
11:37	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

Recorded By R. Matchett Date 9/9/2014

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		59.12 (water)
Optimum Pump Rate (L/min)	0.2	Total Liters Extracted:	4
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	69.88 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 9	Discharge Time (sec): 6	Discharge Pressure (psi):	60
Sample No.	BF-9-20140910	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	50		

Well Information		Equipment Information
Number:	BF-9	Interface Probe No.: **N/A**
Location:	Montrose	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	115 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	48.69 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	6 inches	Thermometer No.: **YSI 556**
Well Depth:	129 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	107-128 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
13:42	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
13:47	0.200	9	6	60	24.59	8.53	3.658	0.54	11	-34	1.0	59.15	Clear with yellowish tint. No odor.
13:52	0.200	9	6	60	24.51	8.43	3.656	0.29	17	-27	2.0	59.15	Clear with yellowish tint. No odor.
13:57	0.200	9	6	60	24.51	8.37	3.650	0.25	20	-34	3.0	59.15	Clear with yellowish tint. No odor.
14:02	0.200	9	6	60	24.59	8.35	3.654	0.23	21	-28	4.0	59.15	Clear with yellowish tint. No odor.
14:07	--	--	--	--	--	--	--	--	--	--	--	--	Sample Collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By D. Cebra/ R. Matchett Date 9/10/2014

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	**Montrose Superfund- 2014 Baseline GWM**	Project No.:	**60288979.13.02**
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		**40.17** (water)
Optimum Pump Rate (L/min)	0.35	Total Liters Extracted:	**5**
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	89.83 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec):	Discharge Time (sec):	Discharge Pressure (psi):	
Sample No.	BF-10-20140904	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	88		

Well Information		Equipment Information
Number:	**BF-10**	Interface Probe No.: **N/A**
Location:	**LADWP**	Sounder No.: **Solinst**
Site:	**Montrose Superfund Site**	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	125 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	28.67 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	130 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	120-130 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
10:05	0.350	--	--	--	--	--	--	--	--	--	--	40.25	Purged one liter prior to collecting readings.
10:08	0.350	10	5	80	21.89	6.22	0.523	<1	8	-79	1.0	40.25	Clear. No odor.
10:11	0.350	10	5	80	22.05	6.13	0.524	<1	6	-75	2.0	40.25	Clear . Slight chemical odor.
10:14	0.350	10	5	80	22.02	6.27	0.556	<1	3	-83	3.0	40.25	Clear . Slight chemical odor.
10:17	0.350	10	5	80	22.01	6.33	0.555	<1	3	-88	4.0	40.25	Clear . Slight chemical odor.
10:20	0.350	10	5	80	22.00	6.36	0.555	<1	3	-88	5.0	40.25	Clear . Slight chemical odor.
10:25	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By E. Smith Date 9/4/2014

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		45.81 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	78.19 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	60
Sample No.	BF-11-20140909	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	BF-11	Interface Probe No.: **N/A**
Location:	New Hampshire, S of Milton	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	114 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	33.66 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	124 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	104-124 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
7:52	--	--	--	--	--	--	--	--	--	--	--	45.81	Purged one liter prior to collecting readings.
7:56	0.300	11	9	60	22.55	6.91	0.847	1.39	3	175	1.0	45.83	Clear. No odor.
7:59	0.300	11	9	60	22.50	7.16	0.497	1.14	2	163	1.9	45.83	Clear. No odor.
8:02	0.300	11	9	60	22.55	7.30	0.365	0.66	2	104	2.8	45.83	Clear. No odor.
8:05	0.300	11	9	60	22.56	7.33	0.362	0.62	2	99	3.7	45.83	Clear. No odor.
8:08	0.300	11	9	60	22.57	7.35	0.360	0.60	2	96	4.6	45.83	Clear. No odor.
8:09	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

Recorded By R. Matchett Date 9/9/2014

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		34.38 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	85.62 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	80
Sample No.	BF-12-20140916 BF-1200-20140916	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	BF-12	Interface Probe No.: **N/A**
Location:	Linley, E of Doble	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	115 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	22.2 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	120 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	110-120 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
8:07	--	--	--	--	--	--	--	--	--	--	--	34.38	Purged one liter prior to collecting readings.
8:11	0.300	11	9	80	22.44	6.49	0.942	1.12	13	183	1.0	34.40	Clear. No odor.
8:14	0.300	11	9	80	22.33	6.52	1.025	0.53	10	130	1.9	34.42	Clear. No odor.
8:17	0.300	11	9	80	22.30	6.55	1.026	0.50	9	120	2.8	34.42	Clear. No odor.
8:20	0.300	11	9	80	22.31	6.57	1.027	0.48	9	115	3.7	34.42	Clear. No odor.
8:23	0.300	11	9	80	22.33	6.57	1.027	0.46	8	114	4.6	34.42	Clear. No odor.
8:24	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/16/2014

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	**Montrose Superfund- 2014 Baseline GWM**	Project No.:	**60288979.13.02**
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		**47.34** (water)
Optimum Pump Rate (L/min)	0.2	Total Liters Extracted:	**5**
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	74.66 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10.5	Discharge Time (sec): 4.5	Discharge Pressure (psi):	60
Sample No.	BF-14-20140905	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1000		

Well Information		Equipment Information
Number:	**BF-14**	Interface Probe No.: **N/A**
Location:	**Budlong, N of Milton**	Sounder No.: **Solinst**
Site:	**Montrose Superfund Site**	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	114 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	36.3 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	122 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	111-121 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
9:33	--	--	--	--	--	--	--	--	--	--	--	47.41	Purged one liter prior to collecting readings.
9:38	0.200	10.5	4.5	60	23.24	8.42	0.279	0.69	4	74	1.0	47.41	Clear. Slight chemical odor.
9:43	0.200	10.5	4.5	60	23.27	8.20	0.283	1.45	3	65	2.0	47.41	Clear. Slight chemical odor.
9:48	0.200	10.5	4.5	60	23.09	8.05	0.288	1.69	3	60	3.0	47.41	Clear. Slight chemical odor.
9:53	0.200	10.5	4.5	60	22.90	7.93	0.294	1.52	3	57	4.0	47.41	Clear. Slight chemical odor.
9:58	0.200	10.5	4.5	60	22.90	7.86	0.302	1.49	3	53	5	47.41	Clear. Slight chemical odor.
10:03	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By N. DiPietro Date 9/5/2014

Checked By K.Carr Green Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		33.65 (water)
Optimum Pump Rate (L/min)	50	Total Liters Extracted:	1.250
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	80.35 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec):	10	Discharge Time (sec): 5	Discharge Pressure (psi): 150
Sample No.	BF-15-20140904	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	50		

Well Information		Equipment Information
Number:	BF-15	Interface Probe No.: **N/A**
Location:	Milton, E of Kenwood	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	85 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	22.82 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	114 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	78-113 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
14:10	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
14:15	0.050	10	5	150	22.74	6.95	0.302	0.99	1.69	-162.9	1.000	33.65	Clear. No odor.
14:20	0.050	10	5	150	22.50	6.92	0.303	0.50	1.56	-178.1	1.050	33.65	Clear. No odor.
14:25	0.050	10	5	150	22.33	6.94	0.306	0.43	1.43	-188.5	1.100	33.65	Clear. No odor.
14:30	0.050	10	5	150	22.33	6.95	0.308	0.39	1.35	-200.3	1.150	33.65	Clear. No odor.
14:35	0.050	10	5	150	22.26	6.99	0.315	0.310	1.48	-220.5	1.200	33.65	Clear. No odor.
14:37	0.050	10	5	150	22.24	7.00	0.316	0.290	1.36	-226.5	1.250	33.65	Clear. No odor.
14:40	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By M. Worsnopp Date 9/4/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	**Montrose Superfund- 2014 Baseline GWM**	Project No.:	**60288979.13.02**
PID/FID Readings:	0 (ambient)	0 (well mouth)	
Static Levels:	NA (product)	**46.96** (water)	
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	**4.5**
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	83.04 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	90
Sample No.	BF-16-20140905	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1500		

Well Information		Equipment Information
Number:	**BF-16**	Interface Probe No.: **N/A**
Location:	**Budlong, N of 212th**	Sounder No.: **Solinst**
Site:	**Montrose Superfund Site**	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	110 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	35.31 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	130 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	103-124 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
15:01	--	--	--	--	--	--	--	--	--	--	0.0	46.96	Purged one liter prior to collecting readings.
15:06	0.300	10	5	90	21.98	10.05	0.814	0.60	5	18	1.5	46.96	Clear. No odor.
15:11	0.300	10	5	90	21.86	10.08	0.816	0.33	3	1	3.0	46.96	Clear. No odor.
15:16	0.300	10	5	90	21.83	10.09	0.816	0.36	4	-5	4.5	46.96	Clear. No odor.
15:21	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By N. DiPietro Date 9/5/2014

Checked By K.Carr Green Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		34.69 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	89.31 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	100
Sample No.	BF-17-20140904	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	BF-17	Interface Probe No.: **N/A**
Location:	New Hampshire, W of Javelin	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	22.67 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	124 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	100-120 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
12:18	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
12:21	0.300	11	9	100	22.16	7.20	1.436	0.23	2	-89	1.9	34.75	Clear. No odor.
12:24	0.300	11	9	100	22.07	7.13	1.446	0.21	2	-82	2.8	34.75	Clear. No odor.
12:27	0.300	11	9	100	22.07	7.11	1.448	0.20	1	-80	3.7	34.75	Clear. No odor.
12:30	0.300	11	9	100	22.04	7.11	1.449	0.20	1	-78	4.6	34.75	Clear. No odor.
12:31	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/4/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		51.05 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.0
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	83.95 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings	DEDICATED PUMP		
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	80
Sample No.	BF-19-20140915	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	300		

Well Information		Equipment Information
Number:	BF-19	Interface Probe No.: **N/A**
Location:	Francisco, E of Normandie	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	130 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	40.44 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	135 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	128-133 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
14:37	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
14:40	0.300	11	9	80	23.66	5.85	0.307	0.37	53	-23	1.9	51.09	Slightly turbid. No odor.
14:43	0.300	11	9	80	23.69	5.86	0.307	0.37	55	-23	2.8	51.09	Slightly turbid. No odor.
14:46	0.300	11	9	80	23.61	5.90	0.306	0.36	53	-27	3.7	51.09	Slightly turbid. No odor.
14:49	0.300	11	9	80	23.61	5.93	0.305	0.36	53	-29	4.6	51.09	Slightly turbid. No odor.
14:50	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/15/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		50.43 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	72.57 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	100
Sample No.	BF-21-20140904	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	BF-21	Interface Probe No.: **N/A**
Location:	Normandie IN - S of Tor Blvd	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	110 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	39.67 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	123 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	96-121 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
13:39	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
13:42	0.300	11	9	100	23.68	7.33	1.278	0.50	46	-33	1.9	50.45	Clear. No odor.
13:45	0.300	11	9	100	23.46	7.36	1.267	0.28	39	-39	2.8	50.45	Clear. No odor.
13:48	0.300	11	9	100	23.39	7.37	1.260	0.26	31	-40	3.7	50.45	Clear. No odor.
13:51	0.300	11	9	100	23.34	7.40	1.260	0.26	37	-43	4.6	50.45	Clear. No odor.
13:52	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/4/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	**Montrose Superfund- 2014 Baseline GWM**	Project No.:	**60288979.13.02**
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		**43.93** (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	**4.6**
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	76.07 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	90
Sample No.	BF-22-20140903	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	300		

Well Information		Equipment Information
Number:	**BF-22**	Interface Probe No.: **N/A**
Location:	**212th, W of Royal**	Sounder No.: **Solinst**
Site:	**Montrose Superfund Site**	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	102 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	34.29 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	120 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	87-117 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
13:34	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
13:37	0.300	11	9	90	24.35	7.75	0.914	0.51	10	-94	1.9	44.00	Clear. No odor.
13:40	0.300	11	9	90	24.33	7.75	0.918	0.41	10	-95	2.8	44.00	Clear. No odor.
13:43	0.300	11	9	90	24.22	7.75	0.919	0.39	9	-95	3.7	44.00	Clear. No odor.
13:46	0.300	11	9	90	24.19	7.75	0.917	0.38	7	-96	4.6	44.00	Clear. No odor.
13:47	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/3/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	**Montrose Superfund- 2014 Baseline GWM**	Project No.:	**60288979.13.02**
PID/FID Readings:	0 (ambient)	0 (well mouth)	
Static Levels:	NA (product)	**36.98** (water)	
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	**4.6**
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	83.02 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	90
Sample No.	BF-23-20140908	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		**Equipment Information**
Number:	**BF-23**	Interface Probe No.: **N/A**
Location:	**Catalina, N of Milton**	Sounder No.: **Solinst**
Site:	**Montrose Superfund Site**	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	110 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	25.93 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	120 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	101-116 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
9:57	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
10:00	0.300	11	9	90	22.83	7.41	1.092	0.70	2	-142	1.9	37.02	Clear. No odor.
10:03	0.300	11	9	90	22.79	7.39	1.121	0.67	2	-134	2.8	37.02	Clear. No odor.
10:06	0.300	11	9	90	22.81	7.37	1.137	0.64	2	-131	3.7	37.02	Clear. No odor.
10:09	0.300	11	9	90	22.82	7.37	1.140	0.61	2	-130	4.6	37.02	Clear. No odor.
10:10	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/8/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		42.69 (water)
Optimum Pump Rate (L/min)	0.35	Total Liters Extracted:	4.0
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	78.31 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	110
Sample No.	BF-24-20140904	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1000		

Well Information		Equipment Information
Number:	BF-24	Interface Probe No.: **N/A**
Location:	209th, E of Royal	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	110 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	31.18 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	121 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	96-121 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
13:50	--	--	--	--	--	--	--	--	--	--	--	42.70	Purged one liter prior to collecting readings.
13:53	0.350	10	5	110	21.86	6.45	2.121	0.38	7	-102	1.0	42.70	Clear. Slight to moderate odor.
13:56	0.350	10	5	110	21.82	6.52	2.112	0.34	7	-107	2.0	42.70	Clear. Slight to moderate odor.
13:59	0.350	10	5	110	21.81	6.53	2.109	0.33	5	-109	3.0	42.70	Clear. Slight to moderate odor.
14:02	0.350	10	5	110	21.78	6.56	2.103	0.33	7	-107	4.0	42.70	Clear. Slight to moderate odor.
14:05	--	--	--	--	--	--	--	--	--	--	--	42.70	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By E. Smith Date 9/5/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		35.98 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	79.02 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	100
Sample No.	BF-24-20140905	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	BF-25	Interface Probe No.: **N/A**
Location:	Doble & Clarion	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	99 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	23.7 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	115 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	94-104 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
8:57	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
9:00	0.300	11	9	100	22.45	7.11	1.522	0.44	1	-123	1.9	36.10	Clear. No odor.
9:03	0.300	11	9	100	22.32	7.17	1.541	0.30	1	-135	2.8	36.10	Clear. No odor.
9:06	0.300	11	9	100	22.26	7.22	1.539	0.28	0	-143	3.7	36.10	Clear. No odor.
9:09	0.300	11	9	100	22.25	7.25	1.537	0.28	0	-144	4.6	36.10	Clear. No odor.
9:10	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/4/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		35.10 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	86.90 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	90
Sample No.	BF-27-20140903	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	BF-27	Interface Probe No.: **N/A**
Location:	214th, W of Vermont	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	111 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	24.18 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	122 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	101-121 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
12:19	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
12:22	0.300	11	9	90	23.33	7.18	2.109	0.72	1	-52	1.9	35.15	Clear. No odor.
12:25	0.300	11	9	90	23.21	7.16	2.093	0.48	1	-53	2.8	35.15	Clear. No odor.
12:28	0.300	11	9	90	23.06	7.16	2.090	0.47	1	-54	3.7	35.15	Clear. No odor.
12:31	0.300	11	9	90	23.07	7.16	2.090	0.46	0	-54	4.6	35.15	Clear. No odor.
12:32	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/3/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		45.98 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	5.5
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	69.02 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	90
Sample No.	BF-28-20140903	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	BF-28	Interface Probe No.: **N/A**
Location:	W Clarion, E of Vermont	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	105 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	33.84 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	115 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	95-110 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
10:38	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
10:41	0.300	11	9	90	23.22	7.61	1.512	0.72	85	-123	1.9	46.00	Clear. No odor.
10:44	0.300	11	9	90	23.13	7.59	1.831	0.54	118	-140	2.8	46.00	Clear. No odor. Water appears bubbly or carbonated.
10:47	0.300	11	9	90	23.95	7.58	1.844	0.38	99	-158	3.7	46.00	Clear. No odor. Water appears bubbly or carbonated.
10:50	0.300	11	9	90	22.96	7.60	1.842	0.350	91	-164	4.6	46.00	Clear. No odor. Water appears bubbly or carbonated.
10:53	0.300	11	9	90	22.82	7.60	1.845	0.35	97	-166	5.5	46.00	Clear. No odor. Water appears bubbly or carbonated.
10:54	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/3/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		50.52 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	75.48 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	70
Sample No.	BF-29-20140916	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	BF-29	Interface Probe No.: **N/A**
Location:	Halldale, N of 209th	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	110 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	39.62 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	126 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	100-120 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
9:16	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
9:19	0.300	11	9	70	23.34	6.15	0.766	0.83	22	40	1.9	50.54	Clear. No odor.
9:22	0.300	11	9	70	23.67	6.24	0.765	0.49	19	27	2.8	50.54	Clear. No odor.
9:25	0.300	11	9	70	23.22	6.25	0.768	0.50	18	25	3.7	50.54	Clear. No odor.
9:28	0.300	11	9	70	23.41	6.25	0.769	0.510	17	25	4.6	50.54	Clear. No odor.
9:29	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/16/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		36.07 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	5.5
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	83.93 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	
Sample No.	BF-30-20140908	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	BF-30	Interface Probe No.: **N/A**
Location:	Clarion Dr, E of Normandie	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	100 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	24.58 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	120 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	82-113 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
9:02	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
9:05	0.300	11	9	100	22.37	7.57	0.747	0.60	39	-40	1.9	36.07	Clear. No odor.
9:08	0.300	11	9	100	22.34	7.72	0.750	0.33	31	-52	2.8	36.07	Clear. No odor.
9:11	0.300	11	9	100	22.31	7.76	0.751	0.27	35	-57	3.7	36.07	Clear. No odor.
9:14	0.300	11	9	100	22.28	7.80	0.750	0.25	32	-62	4.6	36.07	Clear. No odor.
9:17	0.300	11	9	100	22.29	7.84	0.749	0.25	32	-65	5.5	36.07	Clear. No odor.
9:18	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/8/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		48.33 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	86.67 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	70
Sample No.	BF-31-20140910	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	BF-31	Interface Probe No.: **N/A**
Location:	Denker, S of 209th	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	120 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	37.55 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	135 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	105-135 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
9:05	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
9:08	0.300	11	9	70	22.41	8.74	1.219	1.12	6	-225	1.9	48.36	Clear. Slight sulfer odor.
9:11	0.300	11	9	70	22.42	8.72	1.228	1.02	6	-231	2.8	48.36	Clear. Slight sulfer odor.
9:14	0.300	11	9	70	22.42	8.69	1.230	0.94	6	-236	3.7	48.36	Clear. Slight sulfer odor.
9:17	0.300	11	9	70	22.41	8.67	1.231	0.93	5	-240	4.6	48.36	Clear. Slight sulfer odor.
9:18	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/10/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	**Montrose Superfund- 2014 Baseline GWM**	Project No.:	**60288979.13.02**
PID/FID Readings:	0 (ambient)	0 (well mouth)	
Static Levels:	NA (product)	**60.17** (water)	
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	**4.6**
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	59.83 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	60
Sample No.	BF-32A-20140915	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		**Equipment Information**
Number:	**BF-32A**	Interface Probe No.: **N/A**
Location:	**206th, E of Western**	Sounder No.: **Solinst**
Site:	**Montrose Superfund Site**	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	90 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	50.81 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	120 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	65-115 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
12:25	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
12:29	0.300	11	9	60	22.9	6.38	2.804	2.99	>1000	55	1.0	60.25	No odor. Rust colored water. Turbidity due to coloration.
12:32	0.300	11	9	60	22.92	6.40	2.802	2.85	>1000	42	1.9	60.27	No odor. Rust colored water. Turbidity due to coloration.
12:35	0.300	11	9	60	22.91	6.42	2.801	2.71	>1000	42	2.8	60.27	No odor. Rust colored water. Turbidity due to coloration.
12:38	0.300	11	9	60	22.93	6.43	2.800	2.69	>1000	41	3.7	60.27	No odor. Rust colored water. Turbidity due to coloration.
12:41	0.300	11	9	60	22.89	6.44	2.800	2.67	>1000	41	4.6	60.27	No odor. Rust colored water. Turbidity due to coloration.
12:42	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/15/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		60.96 (water)
Optimum Pump Rate (L/min)	0.2	Total Liters Extracted:	4.0
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	65.04 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	60
Sample No.	BF-35-20140911	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1000		

Well Information		Equipment Information
Number:	BF-35	Interface Probe No.: **N/A**
Location:	Francisco, W of Normandie	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	115 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	50.34 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	2 inches	Thermometer No.: **YSI 556**
Well Depth:	126 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	105.5-126 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
10:08	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
10:13	0.200	11	9	60	23.68	7.66	0.889	1.52	20	-158	1.0	60.96	Clear. No odor.
10:18	0.200	11	9	60	23.26	7.40	0.936	0.68	27	-126	2.0	60.96	Clear. No odor.
10:23	0.200	11	9	60	23.24	7.38	0.946	0.56	24	-111	3.0	60.96	Clear. No odor.
10:28	0.200	11	9	60	23.24	7.38	0.946	0.490	26	-110	4.0	60.96	Clear. No odor.
10:33	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal
1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft
3/16" I.D. Tubing Volume = 0.006 L/ft
* Windy Conditions

Stability Requirements:
Temperature: ± 1° C Conductivity: ± 5%
pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/11/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		33.99 (water)
Optimum Pump Rate (L/min)		Total Liters Extracted:	4
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	101.01 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	60
Sample No.	SWL0027-20140905	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	SWL0027	Interface Probe No.: **N/A**
Location:	AlpineVillage; Torr Blvd/Vermont	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	125 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	33.77 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	135 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	119-135 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
11:30	0.350	--	--	--	--	--	--	--	--	--	0.0	34.00	Purged one liter prior to collecting readings.
11:33	0.350	10	5	60	23.91	7.58	1.03	<1	4	-43	1.0	34.00	Clear . No odor.
11:36	0.350	10	5	60	23.58	7.25	1.03	<1	2	-62	2.0	34.00	Clear . No odor.
11:39	0.350	10	5	60	23.47	7.22	1.03	<1	2	-63	2.0	34.00	Clear . No odor.
11:42	0.350	10	5	60	23.31	7.22	1.03	<1	1	-63	4.0	34.00	Clear . No odor.
11:45	--	--	--	--	--	--	--	--	--	--	4.5	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By E. Smith Date 9/3/2014

Checked By K. Carr Green Date 10/9/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		47.80 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	5
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	92.06 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 4	Discharge Pressure (psi):	90
Sample No.	SWL0033-20140905	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	SWL0033	Interface Probe No.: **N/A**
Location:	Budlong, S of 204th	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	130 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	35.75 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	139.86 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	124.3-140 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
11:10	0.300	11	4	90	--	--	--	--	--	--	--	47.85	Purged one liter prior to collecting readings.
11:15	0.300	11	4	90	23.09	7.59	1.474	0.55	2	-96	1.5	47.85	Clear . Slight chemical odor.
11:20	0.300	11	4	90	22.92	7.56	1.472	0.39	2	-104	3.0	47.85	Clear . Slight chemical odor.
11:25	0.300	11	4	90	22.87	7.55	1.471	0.29	1	-108	4.5	47.85	Clear . Slight chemical odor.
11:30	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

Recorded By N. DiPietro Date 9/5/2014

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Checked By K. Carr Green Date 10/9/2014

APPENDIX A

LOW FLOW/MINIMAL DRAWDOWN WELL SAMPLING LOG

Gage Aquifer

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		58.14 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	106.36 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 9	Discharge Time (sec): 6	Discharge Pressure (psi):	70
Sample No.	G-1-20140909; G-100-20140909	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	--		

Well Information		Equipment Information
Number:	G-1	Interface Probe No.: **N/A**
Location:	MONTROSE	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	145 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	46.66 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	164.5 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	140.5-160 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
10:50	--	--	--	--	--	--	--	--	--	--	--	58.21	Purged one liter prior to collecting readings.
10:53	0.300	9.0	6.0	70	24.87	7.52	0.656	1.58	6	26	1.9	58.22	Clear. No odor.
10:56	0.300	9.0	6.0	70	24.83	7.45	0.654	1.33	6	22	2.8	58.22	Clear. No odor.
10:59	0.300	9.0	6.0	70	24.79	7.43	0.654	1.17	8	19	3.7	58.22	Clear. No odor.
11:02	0.300	9.0	6.0	70	24.77	7.42	0.655	1.09	8	18	4.6	58.22	Clear. No odor.
11:05	0.300	9.0	6.0	70	24.76	7.42	0.654	1.02	7	17	5.5	58.22	Clear. No odor.
11:06	--	--	--	--	--	--	--	--	--	--	--		Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By D. Cebra Date 9/9/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		55.24 (water)
Optimum Pump Rate (L/min)	0.2	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	124.76 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	95
Sample No.	G-2-20140910	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	G-2	Interface Probe No.: **N/A**
Location:	Montrose	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	165 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	43.26 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	180 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	155-175.5 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
14:30	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
14:34	0.300	11	9	95	26.420	9.120	0.522	1.07	12	-153	1	55.32	Clear. No odor.
14:37	0.300	11	9	95	25.28	8.95	0.521	0.78	9	-160	1.9	55.32	Clear. No odor.
14:40	0.300	11	9	95	25.15	8.97	0.520	0.58	9	-171	2.8	55.32	Clear. No odor.
14:43	0.300	11	9	95	25.07	8.98	0.520	0.54	8	-177	3.7	55.32	Clear. No odor.
14:46	0.300	11	9	95	25.10	8.99	0.520	0.53	8	-181	4.6	55.32	Clear. No odor.
14:47	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/10/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		61.24 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	108.76 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings	DEDICATED PUMP		
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	100
Sample No.	G-3-20140909	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	G-3	Interface Probe No.: **N/A**
Location:	MONTROSE	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	156 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	49.7 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	170 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	145.5-166 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
13:10	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
13:14	0.300	11.0	9.0	100.0	24.63	8.19	0.581	1.22	5	-35	1.0	61.25	Clear. No odor.
13:17	0.300	11.0	9.0	100.0	24.61	8.24	0.584	1.01	6	-34	1.9	61.26	Clear. No odor.
13:20	0.300	11.0	9.0	100.0	24.80	8.32	0.587	0.97	6	-33	2.8	61.26	Clear. No odor.
13:23	0.300	11.0	9.0	100.0	24.95	8.36	0.585	0.93	6	-34	3.7	61.26	Clear. No odor.
13:26	0.300	11.0	9.0	100.0	24.96	8.38	0.589	0.92	6	-34	4.6	61.26	Clear. No odor.
13:27	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By D. Cebra Date 9/9/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		51.95 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	143.05 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings	DEDICATED PUMP		
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	100
Sample No. G-4-20140909	Sample Analysis:	VOCs + FO and pCBSA	
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	G-4	Interface Probe No.: **N/A**
Location:	Jon St, E of Normandie	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	174 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	39.7 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	195 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	154-194 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
10:31	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
10:35	0.300	11	9	100	26.92	7.19	0.566	1.71	12	-88	1.0	51.96	Clear. No odor.
10:38	0.300	11	9	100	26.80	7.25	0.551	1.48	5	-93	1.9	51.97	Clear. No odor.
10:41	0.300	11	9	100	26.82	7.33	0.539	1.41	4	-102	2.8	51.97	Clear. No odor.
10:44	0.300	11	9	100	26.77	7.39	0.534	1.35	3	-107	3.7	51.97	Clear. No odor.
10:47	0.300	11	9	100	26.75	7.41	0.531	1.32	3	-109	4.6	51.97	Clear. No odor.
10:48	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/9/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM		Project No.:	60288979.13.02	
PID/FID Readings:	0	(ambient)		0	(well mouth)
Static Levels:	NA	(product)		53.72	(water)
Optimum Pump Rate (L/min)	0.3		Total Liters Extracted:	5.5	
Disposal of Discharge Water:	Temporary treatment system				
Water Column Length:	140.28	feet	Minimum Purge Volume:	N/A	Liters
Optimum Controller Settings					
Refill Time (sec):	7	Discharge Time (sec):	13	Discharge Pressure (psi):	90
Sample No.	G-5-20140910	Sample Analysis:	VOCs + FO and pCBSA		
Volume Discharged per Purge (mL):	100				

Well Information		Equipment Information
Number:	G-5	Interface Probe No.: **N/A**
Location:	LADWP-E	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	160 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	41.71 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	194 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	151-190 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
11:27	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
11:31	0.300	7	13	90	24.59	7.60	0.733	1.61	4	-25	1.0	53.72	Clear. No odor.
11:34	0.300	7	13	90	24.46	7.61	0.733	1.50	3	-28	1.9	53.72	Clear. No odor.
11:37	0.300	7	13	90	24.45	7.61	0.732	1.40	4	-29	2.8	53.72	Clear. No odor.
11:40	0.300	7	13	90	24.42	7.62	0.732	1.39	4	-32	3.7	53.72	Clear. No odor.
11:43	0.300	7	13	90	24.39	7.63	0.732	1.38	3	-32	4.6	53.72	Clear. No odor.
11:46	0.300	7	13	90	24.36	7.62	0.733	1.36	3	-33	5.5	53.72	Clear. No odor.
11:47	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By D. Cebra Date 9/10/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		34.88 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	146.12 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	100
Sample No.	G-8-20140909	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	G-8	Interface Probe No.: **N/A**
Location:	Milton, E of Kenwood	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	160 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	22.52 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	181 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	140-180 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
13:58	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
14:02	0.300	11	9	100	23.61	7.60	0.525	1.13	39	-105	1.0	34.91	Clear. No odor.
14:05	0.300	11	9	100	23.56	7.53	0.529	1.11	34	-115	1.9	34.91	Clear. No odor.
14:08	0.300	11	9	100	23.42	7.53	0.530	1.17	31	-115	2.8	34.91	Clear. No odor.
14:11	0.300	11	9	100	23.37	7.52	0.530	1.19	30	-115	3.7	34.91	Clear. No odor.
14:14	0.300	11	9	100	23.35	7.52	0.530	1.20	31	-115	4.6	34.91	Clear. No odor.
14:15	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/9/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM		Project No.:	60288979.13.02	
PID/FID Readings:	0	(ambient)		0	(well mouth)
Static Levels:	NA	(product)		41.70	(water)
Optimum Pump Rate (L/min)	0.35		Total Liters Extracted:	5.0	
Disposal of Discharge Water:	Temporary treatment system				
Water Column Length:	168.30	feet	Minimum Purge Volume:	N/A	Liters
Optimum Controller Settings					
Refill Time (sec):	10	Discharge Time (sec):	5	Discharge Pressure (psi):	150
Sample No.	G-9-20140904	Sample Analysis:	VOCs + FO and pCBSA		
Volume Discharged per Purge (mL):	1000				

Well Information		Equipment Information
Number:	G-9	Interface Probe No.: **N/A**
Location:	New Hampshire, S of Milton	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	190 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	28.58 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	5 inches	Thermometer No.: **YSI 556**
Well Depth:	210 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	171-213 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
8:45	--	--	--	--	--	--	--	--	--	--	--	41.7	Purged one liter prior to collecting readings.
8:48	0.350	10	5	150	21.53	7.41	0.703	1.13	4	-87	1.0	41.7	Clear. Slight to moderate odor.
8:51	0.350	10	5	150	21.50	7.46	0.704	0.89	3	-97	2.0	41.7	Clear. Slight to moderate odor.
8:54	0.350	10	5	150	21.51	7.48	0.703	0.76	3	-98	3.0	41.7	Clear. Slight to moderate odor.
8:57	0.350	10	5	150	21.52	7.51	0.703	0.75	3	-101	4.0	41.7	Clear. Slight to moderate odor.
9:00	0.350	10	5	150	21.53	7.53	0.703	0.74	2	-102	5.0	41.7	Clear. Slight to moderate odor.
9:03	--	--	--	--	--	--	--	--	--	--	--	41.7	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By E. Smith Date 9/4/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM		Project No.:	60288979.13.02	
PID/FID Readings:	0	(ambient)		0	(well mouth)
Static Levels:	NA	(product)		38.53	(water)
Optimum Pump Rate (L/min)			Total Liters Extracted:	4.6	
Disposal of Discharge Water:	Temporary treatment system				
Water Column Length:	179.47	feet	Minimum Purge Volume:	N/A	Liters
Optimum Controller Settings					
Refill Time (sec):	11	Discharge Time (sec):	9	Discharge Pressure (psi):	90
Sample No.	G-11-20140915	Sample Analysis:	VOCs + FO and pCBSA		
Volume Discharged per Purge (mL):		100			

Well Information		Equipment Information
Number:	G-11	Interface Probe No.: **N/A**
Location:	Del Amo, W of Vermont	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	28.58 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	5 inches	Thermometer No.: **YSI 556**
Well Depth:	218 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	171-213 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
10:26	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
10:30	0.300	11	9	90	25.24	6.61	1.010	0.97	7	-122	1.0	38.55	Clear. Slight biological odor.
10:33	0.300	11	9	90	24.91	6.13	1.000	0.54	3	-107	1.9	38.55	Clear. Slight biological odor.
10:36	0.300	11	9	90	24.52	5.96	1.000	0.45	2	-113	2.8	38.55	Clear. Slight biological odor.
10:39	0.300	11	9	90	24.35	5.95	1.001	0.44	2	-121	3.7	38.55	Clear. Slight biological odor.
10:42	0.300	11	9	90	24.25	5.90	1.000	0.41	2	-121	4.6	38.55	Clear. Slight biological odor.
10:43	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/15/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM		Project No.:	60288979.13.02	
PID/FID Readings:	0	(ambient)		0	(well mouth)
Static Levels:	NA	(product)		38.66	(water)
Optimum Pump Rate (L/min)	0.3		Total Liters Extracted:	4.6	
Disposal of Discharge Water:	Temporary treatment system				
Water Column Length:	159.34	feet	Minimum Purge Volume:	N/A	Liters
Optimum Controller Settings					
Refill Time (sec):	4	Discharge Time (sec):	9	Discharge Pressure (psi):	110
Sample No.	G-12-20140908	Sample Analysis:	VOCs + FO and pCBSA		
Volume Discharged per Purge (mL):		100			

Well Information		Equipment Information
Number:	G-12	Interface Probe No.: **N/A**
Location:	Catalina, N of Milton	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	160 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	25.85 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	198 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	158-198 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
10:24	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
10:28	0.300	11	9	110	22.35	7.50	1.211	1.40	23	-97	1.0	38.70	Clear. No odor.
10:31	0.300	11	9	110	22.34	7.51	1.256	0.94	31	-107	1.9	38.71	Clear. No odor.
10:34	0.300	11	9	110	22.36	7.53	1.283	0.69	36	-118	2.8	38.71	Clear. No odor.
10:37	0.300	11	9	110	22.36	7.54	1.284	0.67	37	-119	3.7	38.71	Clear. No odor.
10:40	0.300	11	9	110	22.36	7.54	1.285	0.65	35	-121	4.6	38.71	Clear. No odor.
10:41	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/8/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		48.70 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	2.0
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	146.30 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	170
Sample No.	G-13-20140905	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	G-13	Interface Probe No.: **N/A**
Location:	Budlong, N of Milton	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	170 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	41.71 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	195 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	157-197 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
14:05	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
14:08	0.050	10	5	170	26.82	7.98	0.692	2.51	2	-144	0.25	48.70	Clear. No odor.
14:11	0.050	10	5	170	26.62	7.97	0.691	2.08	2	-144	0.25	48.70	Clear. No odor.
14:14	0.050	10	5	170	26.50	7.97	0.690	1.82	2	-148	0.25	48.70	Clear. No odor.
14:17	0.050	10	5	170	26.24	7.97	0.690	1.51	2	-146	0.25	48.71	Clear. No odor.
14:20	0.050	10	5	170	26.28	7.96	0.689	1.33	1	-138	0.25	48.71	Clear. No odor.
14:30	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By M. Worsnopp Date 9/5/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		52.65 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	143.35 feet	Minimum Purge Volume:	N/A Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	100
Sample No.	G-14-20140915	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	G-14	Interface Probe No.: **N/A**
Location:	Francisco, E of Normandie	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	175 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	40.62 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	196 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	155-195 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
15:26	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
15:30	0.300	11	9	100	24.40	6.38	0.466	1.10	22	36	1.0	52.67	Clear. No odor.
15:33	0.300	11	9	100	24.17	6.42	0.483	0.86	29	30	1.9	52.67	Clear. No odor.
15:36	0.300	11	9	100	24.14	6.45	0.487	0.79	18	27	2.8	52.67	Clear. No odor.
15:39	0.300	11	9	100	24.07	6.48	0.489	0.77	19	25	3.7	52.67	Clear. No odor.
15:42	0.300	11	9	100	24.08	6.50	0.493	0.73	20	23	4.6	52.67	Clear. No odor.
15:43	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/15/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		59.95 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	124.05 feet	Minimum Purge Volume:	N/A Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	95
Sample No.	G-15-20140916	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	G-15	Interface Probe No.: **N/A**
Location:	Farmer Brothers	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	162 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	48.71 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	184 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	142-182 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
11:35	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
11:38	0.300	11	9	95	26.01	6.7	0.506	0.77	53	2	1.0	59.97	Clear. No odor.
11:41	0.300	11	9	95	25.01	6.70	0.522	0.64	64	-12	1.9	59.97	Clear. No odor.
11:44	0.300	11	9	95	24.97	6.68	0.522	0.59	64	-16	2.8	59.97	Clear. No odor.
11:47	0.300	11	9	95	24.95	6.70	0.523	0.58	58	-14	3.7	59.97	Clear. No odor.
11:50	0.300	11	9	95	24.93	6.71	0.523	0.56	59	-13	4.6	59.97	Clear. No odor.
11:51	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/16/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		49.23 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	5.5
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	137.77 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	95
Sample No.	G-16-20140916	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	G-16	Interface Probe No.: **N/A**
Location:	Milton, E of Normandie	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	165 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	37.1 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	187 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	145-185 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
10:23	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
10:27	0.300	11	9	95	23.85	7.51	0.447	0.81	904	29	1.0	49.25	Clear. No odor.
10:30	0.300	11	9	95	23.70	7.17	0.453	0.69	687	31	1.9	49.25	Clear. No odor.
10:33	0.300	11	9	95	23.65	7.03	0.462	0.44	603	19	2.8	49.25	Clear. No odor.
10:36	0.300	11	9	95	23.68	7.24	0.463	0.42	699	9	3.7	49.25	Clear. No odor.
10:39	0.300	11	9	95	23.72	7.23	0.463	0.40	703	7	4.6	49.25	Clear. No odor.
10:42	0.300	11	9	95	23.73	7.23	0.463	0.39	695	7	5.5	49.25	Clear. No odor.
10:43	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/16/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	**Montrose Superfund- 2014 Baseline GWM**	Project No.:	**60288979.13.02**
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		**48.60** (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	**5.5**
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	164.40 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	110
Sample No.	G-17-20140910 G-1700-20140910	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	**G-17**	Interface Probe No.: **N/A**
Location:	**LADWP-E**	Sounder No.: **Solinst**
Site:	**Montrose Superfund Site**	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	192 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	35.99 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	213 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	172-212 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
7:48	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
7:52	0.300	11	9	110	21.83	7.59	1.007	1.69	19	-34	1	48.60	Clear. No odor.
7:55	0.300	11	9	110	21.97	7.43	1.41	1.11	25	-107	1.9	48.60	Clear. No odor.
7:58	0.300	11	9	110	22.00	7.46	1.445	0.65	46	-104	2.8	48.60	Brownish tint. No odor.
8:01	0.300	11	9	110	22.06	7.48	1.452	0.63	55	-119	3.7	48.60	Brownish tint. No odor.
8:04	0.300	11	9	110	22.07	7.48	1.452	0.62	54	-120	4.6	48.60	Brownish tint. No odor.
8:07	0.300	11	9	110	22.08	7.48	1.452	0.61	51	-122	5.5	48.60	Brownish tint. No odor.
8:08	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/10/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		34.76 (water)
Optimum Pump Rate (L/min)	0.35	Total Liters Extracted:	5.0
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	164.74 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	70
Sample No.	G-18-20140903	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1000		

Well Information		Equipment Information
Number:	G-18	Interface Probe No.: **N/A**
Location:	Brody Ave, S of Torr Blvd	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	181 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	21.7 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	199.5 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	161-201 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
13:30	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
13:33	0.350	10	5	80	25.66	8.07	0.454	2.09	6	-29	1.0	34.77	Clear. No odor.
13:36	0.350	10	5	80	25.10	7.96	0.455	1.15	5	-37	2.0	34.77	Clear. No odor.
13:39	0.350	10	5	80	25.05	7.95	0.456	1.00	6	-38	3.0	34.77	Clear. No odor.
13:41	0.350	10	5	80	25.00	7.92	0.455	1.00	4	-39	4.0	34.77	Clear. No odor.
13:44	0.350	10	5	80	25.02	7.91	0.455	1.00	5	-39	5.0	34.77	Clear. No odor.
13:50	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By E. Smith Date 9/3/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		47.95 (water)
Optimum Pump Rate (L/min)	0.2	Total Liters Extracted:	4.0
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	154.05 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	70
Sample No.	G-19A-20140903	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):			

Well Information		Equipment Information
Number:	G-19A	Interface Probe No.: **N/A**
Location:	Catalina, S of Torr Blvd	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	180 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	35.23 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	202 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	160-200 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
14:35	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
14:38	0.200	10	5	70	23.94	8.17	0.400	1.99	2	-52	1.0	48.15	Clear. No odor.
14:41	0.200	10	5	70	23.92	8.16	0.401	1.75	2	-56	1.6	48.15	Clear. No odor.
14:44	0.200	10	5	70	23.88	8.15	0.404	1.54	2	-58	2.2	48.15	Clear. No odor.
14:47	0.200	10	5	70	23.81	8.16	0.408	1.26	3	-68	2.8	48.15	Clear. No odor.
14:50	0.200	10	5	70	23.80	8.15	0.410	1.20	2	-69	3.4	48.15	Clear. No odor.
14:53	0.200	10	5	70	23.51	8.13	0.411	<0.01	2	-66	4.0	48.15	Clear. No odor.
14:55	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By E. Smith Date 9/3/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		59.49 (water)
Optimum Pump Rate (L/min)	0.2	Total Liters Extracted:	4.0
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	111.51 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10.5	Discharge Time (sec): 9.5	Discharge Pressure (psi):	90
Sample No. G-21-20140904	Sample Analysis:	VOCs + FO and pCBSA	
Volume Discharged per Purge (mL):			

Well Information	
Number:	G-21
Location:	Francisco, W of Normandie
Site:	Montrose Superfund Site
Pump/Sampling Depth:	159 ft TOC
Top Of Casing Elev.:	47.67 ft msl
Well Diameter:	2 inches
Well Depth:	171 ft TOC
Well Material:	PVC
Screen Interval:	149-169 ft bgs

Equipment Information
Interface Probe No.: **N/A**
Sounder No.: **Solinst**
Flow Cell Model: **YSI 556**
pH Meter No.: **YSI 556**
Conductivity Meter No.: **YSI 556**
Thermometer No.: **YSI 556**
D.O. Meter No.: **YSI 556**
Turbidity Meter No.: **La Motte 2020**
ORP Meter No.: **YSI 556**
Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
14:35	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
14:38	0.200	10.5	9.5	90	23.31	7.66	0.718	0.91	18	-100	1.0	59.49	Clear. No odor.
14:41	0.200	10.5	9.5	90	23.33	7.65	0.723	0.79	16	-103	2.0	59.49	Clear. No odor.
14:44	0.200	10.5	9.5	90	23.27	7.65	0.727	0.73	18	-108	3.0	59.49	Clear. No odor.
14:47	0.200	10.5	9.5	90	23.24	7.64	0.728	0.71	14	-109	4.0	59.49	Clear. No odor.
14:55	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal
1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft
3/16" I.D. Tubing Volume = 0.006 L/ft
* Windy Conditions
Stability Requirements:
Temperature: ± 1° C Conductivity: ± 5%
pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/4/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	**Montrose Superfund- 2014 Baseline GWM**	Project No.:	**60288979.13.02**
PID/FID Readings:	0 (ambient)	0 (well mouth)	
Static Levels:	NA (product)	**47.30** (water)	
Optimum Pump Rate (L/min)	0.35	Total Liters Extracted:	**4.0**
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	130.70 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	110
Sample No.	G-23-20140905	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1000		

Well Information		Equipment Information
Number:	**G-23**	Interface Probe No.: **N/A**
Location:	**Berendo, N of 212th**	Sounder No.: **Solinst**
Site:	**Montrose Superfund Site**	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	160 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	34.83 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	178 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	148-178 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
8:48	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
8:51	0.350	10	5	110	21.84	8.12	0.330	1.31	1	-10	1.0	47.41	Clear. No odor.
8:54	0.350	10	5	110	21.81	8.00	0.329	0.84	2	-14	2.0	47.41	Clear. No odor.
8:57	0.350	10	5	110	21.75	8.08	0.328	0.81	1	-14	3.0	47.41	Clear. No odor.
9:00	0.350	10	5	110	21.72	8.09	0.328	0.83	1	-14	4.0	47.41	Clear. No odor.
9:03	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By E. Smith Date 9/5/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		52.01 (water)
Optimum Pump Rate (L/min)	0.35	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	129.99 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	100
Sample No.	G-24-20140904	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	G-24	Interface Probe No.: **N/A**
Location:	Normandie IN - S of Tor Blvd	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	158 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	40.4 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	182 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	SCH 40 PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	138.3-178.3 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
14:10	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
14:14	0.300	11	9	100	24.34	7.70	1.094	2.01	12	-71	1	52.07	Clear. No odor.
14:17	0.300	11	9	100	24.12	7.62	1.131	1.63	13	-66	1.9	52.07	Clear. No odor.
14:20	0.300	11	9	100	24.08	7.61	1.132	1.50	9	-68	2.8	52.07	Clear. No odor.
14:23	0.300	11	9	100	24.04	7.60	1.133	1.43	7	-69	3.7	52.07	Clear. No odor.
14:26	0.300	11	9	100	24.03	7.60	1.133	1.38	6	-70	4.6	52.07	Clear. No odor.
14:27	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/4/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		56.81 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	5.5
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	107.09 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 10	Discharge Pressure (psi):	75
Sample No.	G-25-20140909	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	G-25	Interface Probe No.: **N/A**
Location:	Denker, S of 206th	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	130 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	46.06 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	163.9 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	124-164 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
9:40	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
9:44	0.300	10	10	75	24.73	8.09	0.868	1.83	2	-63	1.0	56.84	Clear. No odor.
9:47	0.300	10	10	75	23.77	7.70	0.853	6.73	3	-71	1.9	56.84	Clear. No odor.
9:50	0.300	10	10	75	23.53	6.70	0.853	3.98	2	-27	2.8	56.84	Clear. No odor.
9:53	0.300	10	10	75	23.55	6.70	0.854	1.26	2	-33	3.7	56.84	Clear. No odor.
9:56	0.300	10	10	75	23.56	6.68	0.853	1.25	1	-33	4.6	56.84	Clear. No odor.
9:59	0.300	10	10	75	23.47	6.68	0.855	1.27	1	-33	5.5	56.84	Clear. No odor.
10:00	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By D. Cebra Date 9/9/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		46.75 (water)
Optimum Pump Rate (L/min)	0.35	Total Liters Extracted:	4.0
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	125.70 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	70
Sample No.	G-26-20140904	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1000		

Well Information		Equipment Information
Number:	G-26	Interface Probe No.: **N/A**
Location:	211th, W of Brighton	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	150 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	35.72 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	172.45 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	SCH 40 PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	131.5-172 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
13:20	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
13:23	0.350	10	5	70	22.53	6.88	0.854	<0.01	1	-61	1.0	46.89	Clear. No odor.
13:26	0.350	10	5	70	22.39	6.86	0.871	<0.01	<1	-59	2.0	46.89	Clear. No odor.
13:29	0.350	10	5	70	22.38	6.85	0.872	<0.01	<1	-57	3.0	46.89	Clear. No odor.
13:32	0.350	10	5	70	22.35	6.87	0.871	<0.01	1	-59	4.0	46.89	Clear. No odor.
13:36	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By E. Smith Date 9/4/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		36.51 (water)
Optimum Pump Rate (L/min)	0.1	Total Liters Extracted:	1.2
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	133.49 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 13	Discharge Time (sec): 7	Discharge Pressure (psi):	200
Sample No.	G-27-20140904	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):			

Well Information		Equipment Information
Number:	G-27	Interface Probe No.: **N/A**
Location:	Clarion Dr, W of Budlong	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	130 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	24.52 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	170 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	124-164 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
12:22	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
12:32	0.050	11.5	3.5	155	25.5	7.82	0.692	1.2	1	-78	1.000	36.51	Clear. No odor.
12:40	0.050	11.5	3.5	155	23.91	8.87	0.701	1.07	1	-79	1.050	36.51	Clear. No odor.
12:45	0.050	11.5	3.5	155	23.82	7.87	0.705	0.85	<1	-82	1.100	36.51	Clear. No odor.
12:49	0.100	13	7	200	22.67	7.88	0.707	0.45	1	-101	1.150	36.51	Clear. No odor.
12:54	0.100	13	7	200	22.47	7.83	0.707	0.49	1	-101	1.200	36.51	Clear. No odor.
13:04	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By N. DiPietro Date 9/4/2014

Checked By K. Carr Green Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		48.84 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	146.16 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	100
Sample No.	G-28-20140903	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	G-28	Interface Probe No.: **N/A**
Location:	214th, E of Vermont	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	168 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	35.54 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	195 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	148-188 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
9:43	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
9:47	0.300	11	9	100	23.31	6.72	0.715	2.42	9	24	1.0	48.86	Clear. No odor.
9:50	0.300	11	9	100	22.42	6.89	0.710	1.86	7	-3	1.9	48.86	Clear. No odor.
9:53	0.300	11	9	100	22.30	6.93	0.709	1.42	7	-22	2.8	48.86	Clear. No odor.
9:56	0.300	11	9	100	22.16	7.00	0.710	1.39	6	-27	3.7	48.86	Clear. No odor.
9:59	0.300	11	9	100	22.12	7.01	0.711	1.35	6	-31	4.6	48.86	Clear. No odor.
10:00	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/3/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		49.93 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	150.07 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	100
Sample No.	G-29-20140904	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	G-29	Interface Probe No.: **N/A**
Location:	Peace Apostlic Church	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	177 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	35.42 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	200 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	157-197 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
10:49	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
10:53	0.300	11	9	100	22.29	7.5	1.078	1.2	2	6	1.0	49.93	Clear. No odor.
10:56	0.300	11	9	100	22.07	7.42	1.072	1.14	3	2	1.9	49.93	Clear. No odor.
10:59	0.300	11	9	100	22.04	7.41	1.072	1.13	2	-1	2.8	49.93	Clear. No odor.
11:02	0.300	11	9	100	22.04	7.41	1.072	1.03	2	-3	3.7	49.93	Clear. No odor.
11:05	0.300	11	9	100	22.04	7.41	1.071	1.02	2	-4	4.6	49.93	Clear. No odor.
11:06	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/4/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	**Montrose Superfund- 2014 Baseline GWM**	Project No.:	**60288979.13.02**
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		**55.55** (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	**6.0**
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	146.45 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	90
Sample No.	G-30-20140911	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1500		

Well Information		**Equipment Information**
Number:	**G-30**	Interface Probe No.: **N/A**
Location:	**Harvard, S of 211th**	Sounder No.: **Solinst**
Site:	**Montrose Superfund Site**	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	145 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	44.96 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	202 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	135-165 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
13:17	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
13:22	0.300	11	9	90	22.89	7.03	1.178	1.09	10	-74	1.5	55.58	Clear. No odor.
13:27	0.300	11	9	90	23.26	7.17	1.18	1.74	10	-56	3.0	55.58	Clear. No odor.
13:32	0.300	11	9	90	23.29	7.18	1.179	1.68	10	-55	4.5	55.58	Clear. No odor.
13:37	0.300	11	9	90	23.25	7.12	1.176	1.66	10	-53	6.0	55.58	Clear. No odor.
13:24	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal
1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft
3/16" I.D. Tubing Volume = 0.006 L/ft
* Windy Conditions

Stability Requirements:
Temperature: ± 1° C Conductivity: ± 5%
pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/11/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		49.51 (water)
Optimum Pump Rate (L/min)	0.35	Total Liters Extracted:	5.0
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	151.49 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	70
Sample No.	G-32-20140904	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1000		

Well Information		Equipment Information
Number:	G-32	Interface Probe No.: **N/A**
Location:	Nicolle, S of W 214th	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	32.68 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	201 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	SCH 40 PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	160-190 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
11:48	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
11:51	0.350	10	5	70	23.89	6.25	0.589	1.22	2	-54	1.0	49.55	Clear. No odor.
11:54	0.350	10	5	70	23.85	6.28	0.587	<0.01	1	-51	2.0	49.55	Clear. No odor.
11:57	0.350	10	5	70	24.04	6.42	0.590	<0.01	1	-51	3.0	49.55	Clear. No odor.
12:00	0.350	10	5	70	24.10	6.45	0.592	<0.01	1	-53	4.0	49.55	Clear. No odor.
12:03	0.350	10	5	70	24.00	6.44	0.592	<0.01	1	-52	5.0	49.55	Clear. No odor.
12:06	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By E. Smith Date 9/4/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		60.65 (water)
Optimum Pump Rate (L/min)	0.2	Total Liters Extracted:	4.0
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	140.35 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	90
Sample No.	G-33-20140911	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1000		

Well Information	
Number:	G-33
Location:	206th, E of Western
Site:	Montrose Superfund Site
Pump/Sampling Depth:	75 ft TOC
Top Of Casing Elev.:	50.14 ft msl
Well Diameter:	4 inches
Well Depth:	201 ft TOC
Well Material:	PVC
Screen Interval:	143-173 ft bgs

Equipment Information
Interface Probe No.: **N/A**
Sounder No.: **Solinst**
Flow Cell Model: **YSI 556**
pH Meter No.: **YSI 556**
Conductivity Meter No.: **YSI 556**
Thermometer No.: **YSI 556**
D.O. Meter No.: **YSI 556**
Turbidity Meter No.: **La Motte 2020**
ORP Meter No.: **YSI 556**
Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
9:12	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
9:17	0.200	11	9	90	24.47	7.29	0.643	8.35	8	-46	14	60.65	Clear. No odor.
9:22	0.200	11	9	90	24.25	7.27	0.677	1.57	5	-72	2.0	60.65	Clear. No odor.
9:27	0.200	11	9	90	24.22	7.30	0.692	1.20	5	-85	3.0	60.65	Clear. No odor.
9:32	0.200	11	9	90	24.25	7.36	0.699	0.95	5	-93	4.0	60.65	Clear. No odor.
9:37	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal
1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft
3/16" I.D. Tubing Volume = 0.006 L/ft
* Windy Conditions

Stability Requirements:
Temperature: ± 1° C Conductivity: ± 5%
pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/11/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		44.61 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	165.39 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	100
Sample No.	G-35-20140904	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	G-35	Interface Probe No.: **N/A**
Location:	S Van Deene, S of Javelin	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	170 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	32.07 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	210 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	150-190 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
9:56	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
10:00	0.300	11	9	100	23.05	7.35	1.229	1.78	7	-50	1.0	44.63	Clear. No odor.
10:03	0.300	11	9	100	22.78	7.21	1.286	1.41	8	-43	1.9	44.64	Clear. No odor.
10:06	0.300	11	9	100	22.65	7.18	1.301	1.39	8	-39	2.8	44.64	Clear. No odor.
10:09	0.300	11	9	100	22.69	7.16	1.304	1.31	7	-35	3.7	44.64	Clear. No odor.
10:12	0.300	11	9	100	22.63	7.15	1.306	1.29	5	-33	4.6	44.64	Clear. No odor.
10:13	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/4/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		42.01 (water)
Optimum Pump Rate (L/min)	0.35	Total Liters Extracted:	4
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	112.99 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	110
Sample No.	G-OW-3-20140905	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1000		

Well Information		Equipment Information
Number:	G-OW-3	Interface Probe No.: **N/A**
Location:	Royal, N of 210th	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	165 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	29.32 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	2 inches	Thermometer No.: **YSI 556**
Well Depth:	155 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	SCH 40 PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	145-155 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
11:27	--	--	--	--	--	--	--	--	--	--	--	42.20	Purged one liter prior to collecting readings.
11:30	0.350	10	5	110	23.11	6.67	0.625	0.84	14	-49	1.0	42.20	Clear. Moderate odor.
11:33	0.350	10	5	110	23.09	6.55	0.616	0.55	7	-49	2.0	42.20	Clear. Moderate odor.
11:35	0.350	10	5	110	23.08	6.57	0.613	0.52	5	-50	3.0	42.20	Clear. Moderate odor.
11:38	0.350	10	5	110	23.11	6.58	0.613	0.52	4	-52	4.0	42.20	Clear. Moderate odor.
11:45	--	--	--	--	--	--	--	--	--	--	--		Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By E. Smith Date 9/5/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		57.95 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	153.05 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	120
Sample No.	LG-1-20140916 LG-100-20140916	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	LG-1	Interface Probe No.: **N/A**
Location:	Montrose	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	200 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	43.26 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	211 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	188.5-209 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
15:10	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
15:14	0.300	11	9	120	24.58	6.99	0.442	0.63	48	16	1.0	57.98	Clear. No odor.
15:17	0.300	11	9	120	24.48	7.03	0.456	0.44	45	3	1.9	57.98	Clear. No odor.
15:20	0.300	11	9	120	24.49	7.08	0.457	0.39	44	-2	2.8	57.98	Clear. No odor.
15:23	0.300	11	9	120	24.48	7.10	0.457	0.39	46	-2	3.7	57.98	Clear. No odor.
15:26	0.300	11	9	120	24.51	7.11	0.457	0.40	45	-3	4.6	57.98	Clear. No odor.
15:27	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/16/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	**Montrose Superfund- 2014 Baseline GWM**	Project No.:	**60288979.13.02**
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		**56.26** (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	**4.6**
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	150.74 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	120
Sample No.	LG-2-20140916	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		**Equipment Information**
Number:	**LG-2**	Interface Probe No.: **N/A**
Location:	**Montrose**	Sounder No.: **Solinst**
Site:	**Montrose Superfund Site**	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	195 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	44.61 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	207 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	185-205 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
14:02	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
14:06	0.300	11	9	120	24.28	6.97	0.656	0.76	30	15	1.0	56.27	Clear. No odor.
14:09	0.300	11	9	120	24.12	6.88	0.654	0.62	30	9	1.9	56.28	Clear. No odor.
14:12	0.300	11	9	120	23.76	6.87	0.655	0.39	21	-12	2.8	56.28	Clear. No odor.
14:15	0.300	11	9	120	23.73	6.89	0.654	0.37	22	-15	3.7	56.28	Clear. No odor.
14:18	0.300	11	9	120	23.70	6.92	0.653	0.36	20	-18	4.6	56.28	Clear. No odor.
14:19	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/16/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	NA (ambient)		NA (well mouth)
Static Levels:	NA (product)		35.73 (water)
Optimum Pump Rate (L/min)	350	Total Liters Extracted:	5
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	139.47 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	60
Sample No.	SWL0026-20140903	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1000		

Well Information		Equipment Information
Number:	SWL0026	Interface Probe No.: **N/A**
Location:	AlpineVillage; Torr Blvd/Vermont	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	165 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	22.47 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	175.2 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	159-175 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
12:25	--	--	--	--	--	--	--	--	--	--	--	35.75	Purged one liter prior to collecting readings.
12:28	0.350	10	5	60	25.03	7.83	0.475	1.75	1	-41	1.0	35.75	Clear. No odor.
12:31	0.350	10	5	60	24.95	7.80	0.481	1.20	<1	-62	2.0	35.75	Clear. No odor.
12:34	0.350	10	5	60	24.92	7.82	0.483	<0.01	<1	-62	3.0	35.75	Clear. No odor.
12:37	0.350	10	5	60	24.89	7.83	0.485	<0.01	<1	-63	4.0	35.75	Clear. No odor.
12:40	0.350	10	5	60	25.00	7.83	0.481	<0.01	<1	-63	5.0	35.75	Clear. No odor.
12:43	--	--	--	--	--	--	--	--	--	--	--		Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By E. Smith Date 9/3/2014

Checked By N. DiPietro Date 10/10/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		46.51 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	131.49 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 9.5	Discharge Time (sec): 5.5	Discharge Pressure (psi):	90
Sample No.	SWL0034-20140905	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1500		

Well Information		Equipment Information
Number:	SWL0034	Interface Probe No.: **N/A**
Location:	Budlong & 204th	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	165 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	35.49 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	178 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	160-175.8 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
13:51	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
13:56	0.300	9.5	5.5	90	22.27	7.47	0.418	0.77	2	84	1.5	46.51	Clear. No odor.
14:01	0.300	9.5	5.5	90	22.24	7.40	0.419	0.51	2	76	3.0	46.51	Clear. No odor.
14:06	0.300	9.5	5.5	90	22.15	7.29	0.427	0.29	1	54	4.5	46.51	Clear. No odor.
14:11	0.300	9.5	5.5	90	22.13	7.28	0.429	0.27	2	50	6.0	46.51	Clear. No odor.
14:16	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By N. DiPietro Date 9/5/2014

Checked By N. DiPietro Date 10/10/2014

APPENDIX A

LOW FLOW/MINIMAL DRAWDOWN WELL SAMPLING LOG

Lynwood Aquifer

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	NA (ambient)		NA (well mouth)
Static Levels:	NA (product)		66.40 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	5.5
Disposal of Discharge Water:	Temporary Treatment System		
Water Column Length:	184.60 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings			
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	130
Sample No.	LW-1-20140910 LW-100-20140910	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	LW-1	Interface Probe No.: **N/A**
Location:	Montrose	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	240 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	45.02 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	251 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	230-250 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
13:25	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
13:29	0.300	11	9	130	24.640	7.57	0.413	1.050	56	-42	1.0	66.42	Clear. No odor. White particulate in water.
13:32	0.300	11	9	130	24.64	7.53	0.411	0.97	68	-38	1.9	66.42	Clear. No odor. White particulate in water.
13:35	0.300	11	9	130	24.64	7.52	0.411	1.02	49	-34	2.8	66.42	Clear. No odor. White particulate in water.
13:38	0.300	11	9	130	24.51	7.50	0.410	1.34	46	-26	3.7	66.42	Clear. No odor. White particulate in water.
13:41	0.300	11	9	130	24.52	7.50	0.410	1.33	42	-27	4.6	66.42	Clear. No odor. White particulate in water.
13:44	0.300	11	9	130	24.47	7.51	0.409	1.44	45	-27	5.5	66.42	Clear. No odor. White particulate in water.
13:45	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/10/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	**Montrose Superfund- 2014 Baseline GWM**	Project No.:	**60288979.13.02**
PID/FID Readings:	0 (ambient)	0 (well mouth)	
Static Levels:	NA (product)	**63.59** (water)	
Optimum Pump Rate (L/min)	0.2	Total Liters Extracted:	**4.0**
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	189.41 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings	Dedicated Pump		
Refill Time (sec): 7.5	Discharge Time (sec): 7.5	Discharge Pressure (psi):	120
Sample No.	LW-2-20140910 LW-200-20140910	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1000		

Well Information		**Equipment Information**
Number:	**LW-2**	Interface Probe No.: **N/A**
Location:	**LADWP**	Sounder No.: **Solinst**
Site:	**Montrose Superfund Site**	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	45.02 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	253 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	232-252 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
11:16	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
11:21	0.200	7.5	7.5	120	23.97	8.81	0.455	1.31	2	-72	1.0	63.59	Clear. No odor.
11:26	0.200	7.5	7.5	120	23.87	8.58	0.450	0.41	2	-101	2.0	63.59	Clear. No odor.
11:31	0.200	7.5	7.5	120	23.82	8.57	0.449	0.35	2	-105	3.0	63.59	Clear. No odor.
11:36	0.200	7.5	7.5	120	23.81	8.55	0.449	0.32	2	-103	4.0	63.59	Clear. No odor.
11:41	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By N. DiPietro Date 9/10/2014

Checked By K.Carr Green Date 10/18/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		63.96 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	6.4
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	182.04 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings	Dedicated Pump		
Refill Time (sec): 9	Discharge Time (sec): 6	Discharge Pressure (psi):	120
Sample No.	LW-4-20140919	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	LW-4	Interface Probe No.: **N/A**
Location:	WM Triangle	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	230 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	42.64 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	246 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	225-245 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
11:35	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
11:39	0.200	7.5	7.5	120	24.64	7.18	0.458	5.03	15	-34	1.9	63.96	Clear. No odor.
11:42	0.200	7.5	7.5	120	24.46	7.04	0.451	2.46	11	-54	2.8	63.96	Clear. No odor.
11:45	0.200	7.5	7.5	120	24.47	6.98	0.450	1.74	10	-60	3.7	63.96	Clear. No odor.
11:48	0.200	7.5	7.5	120	24.46	6.95	0.449	1.25	13	-66	4.6	63.96	Clear. No odor.
11:51	0.200	7.5	7.5	120	24.44	6.95	0.448	1.22	11	-69	5.50	63.96	Clear. No odor.
11:54	0.200	7.5	7.5	120	24.43	6.94	0.448	1.20	10	-69	6.40	63.96	Clear. No odor.
11:55	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal
1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft
3/16" I.D. Tubing Volume = 0.006 L/ft
* Windy Conditions
Stability Requirements:
Temperature: ± 1° C Conductivity: ± 5%
pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By D. Cebra Date 9/19/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Well Development/Purge Log

Project Name:	**Montrose Superfund Site**	Project No.:	**60288979.13.02**		
PID/FID Readings:	NA	(ambient)	NA	(well mouth)	
Static Levels:	NA	(product)	**55.85**	(water)	
Sampling Depth:	**230 ft TOC**				
Water Column Length:	**181.89**	(ft) X 0.65	(gal/ft) = **118.23**	(gal - One Well Volume)	
Well Volumes Extracted:	**4.76**				
Pump ■ /Bail ☐	Avg. Rate:	Total Gallons Extracted:	**562.5**		
Disposition of Discharge Water:	**TGRS**				

Well Information		Equipment Information
Number:	**LW-4**	Bailer No.: **NA**
Location:	**Torrance, Ca**	Pump No.: **2-inch GrundfosRediFlo**
Datum:	**NAD83**	Interface Probe No.: NA
Elev. Datum Point:	**NAVD29**	Sounder No.: **Solinst**
Top Of Casing Ele	**42.64 ft MS**	pH Meter No.:**YSI 556**
Well Diameter:	**4-inch**	Conductivity Meter No.: **YSI 556**
Well Depth:	**246 feetTOC**	Thermometer No.: **YSI 556**
Well Material:	**PVC**	D.O. Meter No.: **YSI 556**
Screen Interval:	**225-245 feet**	Turbidity Meter No.: **La Mottle 2020**
		ORP Meter No.: **YSI 556**

Time (24 hr.)	Flow rate (gpm)	Water Temp (°C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Settleable Solids (ml/L)	Gallons Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
9:00	--	--	--	--	--	--	--	--	0.0	63.07	TD = 244.96 ft TOC. Pump set at 230 ft TOC.
9:15	2.5	--	--	--	--	--	--	--	0.0	63.34	Begin PurgeClear. Black flakes in water.
9:45	2.5	23.96	7.09	0.397	0.55	7.0	-92	--	75.0	63.33	Clear. No odor.
10:00	2.5	23.95	7.26	0.392	0.17	2.0	-128	--	87.5	63.33	Clear. No odor.
10:15	2.5	24.04	7.44	0.381	0.10	0.90	-164	--	125.0	63.33	Clear. No odor.
10:30	2.5	24.08	7.50	0.380	0.08	0.20	-174	--	162.5	63.33	Clear. No odor.
10:45	2.5	24.08	7.53	0.379	0.07	0.20	-179	--	200.0	63.33	Clear. No odor.
11:00	2.5	24.07	7.54	0.378	0.06	0.10	-180	--	237.5	63.33	Clear. No odor.
11:15	2.5	24.08	7.54	0.379	0.06	0.20	-182	--	275.0	63.33	Clear. No odor.
11:30	2.5	24.07	7.57	0.378	0.06	0.29	-185	--	312.5	63.33	Clear. No odor.
12:00	2.5	24.05	7.62	0.384	0.04	0.35	-190	--	350.0	63.33	Clear. No odor.
12:15	2.5	24.07	7.65	0.383	0.05	0.10	-195	--	387.5	63.34	Clear. No odor.
12:30	2.5	24.09	7.65	0.381	0.05	0.25	-195	--	425.0	63.33	Clear. No odor.
12:45	2.5	24.10	7.68	0.382	0.04	0.77	-197	--	462.5	63.33	Clear. No odor.
13:10	2.5	24.12	7.68	0.382	0.04	0.78	-199	--	525.0	63.33	Clear. No odor.
13:15	2.5	--	--	--	--	--	--	--	562.5	63.10	Sample well

Notes:
NA = Non-applicable
bgs - below grade surface
TOC = Top of Casing

Recorded By E. Moncayo & T. Peterson Date 1/13/2015
Checked By K.Carr Green Date 2/26/2015

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		67.68 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	6.0
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	183.32 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings	Dedicated Pump		
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	150
Sample No.	LW-5-20140911	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1500		

Well Information		Equipment Information
Number:	LW-5	Interface Probe No.: **N/A**
Location:	Montrose	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	240 ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	46.25 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	251 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	230-250 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
12:26	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
12:31	0.300	11	9	150	24.15	7.44	0.448	1.27	3	-88	1.5	67.72	Clear. No odor.
12:36	0.300	11	9	150	24.14	7.34	0.443	0.89	2	-88	3.0	67.72	Clear. No odor.
12:41	0.300	11	9	150	24.12	7.28	0.441	0.82	2	-89	4.5	67.72	Clear. No odor.
12:46	0.300	11	9	150	24.10	7.26	0.441	0.80	2	-87	6.0	67.72	Clear. No odor.
12:51	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal
1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft
3/16" I.D. Tubing Volume = 0.006 L/ft
* Windy Conditions
Stability Requirements:
Temperature: ± 1° C Conductivity: ± 5%
pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/11/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		65.70 (water)
Optimum Pump Rate (L/min)	0.35	Total Liters Extracted:	4.0
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	190.30 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings	Dedicated Pump		
Refill Time (sec): 10	Discharge Time (sec): 5	Discharge Pressure (psi):	90
Sample No.	LW-6-20140910	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	1000		

Well Information		Equipment Information
Number:	LW-6	Interface Probe No.: **N/A**
Location:	Montrose	Sounder No.: **Solinst**
Site:	Montrose Superfund Site	Flow Cell Model: **YSI 556**
Pump/Sampling Depth:	ft TOC	pH Meter No.: **YSI 556**
Top Of Casing Elev.:	44.25 ft msl	Conductivity Meter No.: **YSI 556**
Well Diameter:	4 inches	Thermometer No.: **YSI 556**
Well Depth:	256 ft TOC	D.O. Meter No.: **YSI 556**
Well Material:	PVC	Turbidity Meter No.: **La Motte 2020**
Screen Interval:	235-255 ft bgs	ORP Meter No.: **YSI 556**
		Hach Kit No.: **N/A**

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
14:35	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
14:38	0.350	10	5	90	25.19	7.14	0.464	1.99	8	-7	1.0	65.70	Clear. No odor.
14:41	0.350	10	5	90	24.45	7.15	0.452	1.36	6	-21	2.0	65.70	Clear. No odor.
14:44	0.350	10	5	90	24.48	7.15	0.450	1.35	5	-20	3.0	65.70	Clear. No odor.
14:47	0.350	10	5	90	24.45	7.15	0.450	1.35	7	-21	4.0	65.70	Clear. No odor.
14:50	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal
1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft
3/16" I.D. Tubing Volume = 0.006 L/ft
* Windy Conditions
Stability Requirements:
Temperature: ± 1° C Conductivity: ± 5%
pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By E. Smith Date 9/18/2014

Checked By N. DiPietro Date 10/16/2014

Low Flow/Minimal Drawdown Well Sampling Log

Project Name:	Montrose Superfund- 2014 Baseline GWM	Project No.:	60288979.13.02
PID/FID Readings:	0 (ambient)		0 (well mouth)
Static Levels:	NA (product)		69.99 (water)
Optimum Pump Rate (L/min)	0.3	Total Liters Extracted:	4.6
Disposal of Discharge Water:	Temporary treatment system		
Water Column Length:	181.01 feet	Minimum Purge Volume:	1 Liters
Optimum Controller Settings	Dedicated Pump		
Refill Time (sec): 11	Discharge Time (sec): 9	Discharge Pressure (psi):	130
Sample No.	LW-7-20140915	Sample Analysis:	VOCs + FO and pCBSA
Volume Discharged per Purge (mL):	100		

Well Information		Equipment Information
Number:	LW-7	Interface Probe No.: N/A
Location:	Montrose	Sounder No.: Solinst
Site:	Montrose Superfund Site	Flow Cell Model: YSI 556
Pump/Sampling Depth:	240 ft TOC	pH Meter No.: YSI 556
Top Of Casing Elev.:	48.68 ft msl	Conductivity Meter No.: YSI 556
Well Diameter:	4 inches	Thermometer No.: YSI 556
Well Depth:	251 ft TOC	D.O. Meter No.: YSI 556
Well Material:	PVC	Turbidity Meter No.: La Motte 2020
Screen Interval:	230-250 ft bgs	ORP Meter No.: YSI 556
		Hach Kit No.: N/A

Time (24 hr.)	Flow rate (L/min)	Refill Cycle (sec)	Discharge Cycle (sec)	Discharge Pressure (psi)	Water Temperature (deg C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Liters Dev./Purge Before Meas.	Water Level (feet)	Remarks (e.g. water clarity)
11:15	--	--	--	--	--	--	--	--	--	--	--	--	Purged one liter prior to collecting readings.
11:19	0.300	11	9	130	26.65	7.07	0.438	1.92	15	9	1.0	70.00	Clear. No odor.
11:22	0.300	11	9	130	25.80	6.57	0.431	1.27	13	3	1.9	70.00	Clear. No odor.
11:25	0.300	11	9	130	25.49	6.38	0.429	1.21	9	-2	2.8	70.00	Clear. No odor.
11:28	0.300	11	9	130	25.38	6.37	0.428	1.20	8	-3	3.7	70.00	Clear. No odor.
11:31	0.300	11	9	130	25.40	6.37	0.428	1.18	10	-4	4.6	70.00	Clear. No odor.
11:32	--	--	--	--	--	--	--	--	--	--	--	--	Sample collected.

Bladder volume = 0.495 L = 0.131 gal

1/4" I.D. Tubing Volume = 0.010 L/ft = 0.002 gal/ft

3/16" I.D. Tubing Volume = 0.006 L/ft

* Windy Conditions

Stability Requirements:

Temperature: ± 1° C Conductivity: ± 5%

pH: ± 0.1 unit Turbidity: ± 10 NTU

Recorded By R. Matchett Date 9/15/2014

Checked By N. DiPietro Date 10/16/2014

APPENDIX B

LABORATORY RESULTS AND ELECTRONIC DATA DELIVERABLES

Level II Data Packages

Level IV Data Packages Compact Disk

APPENDIX B

Level II LABORATORY RESULTS

14-09-0173
14-09-0312
14-09-0448
14-09-0554
14-09-0555
14-09-0554
14-09-0658
14-09-0659
14-09-0760
14-09-0943
14-09-1187
14-09-1264
14-09-1462
14-09-1606
14-09-2424
440-89324
440-91882
15-01-0665

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WORK ORDER NUMBER: 14-09-0173

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Analytical Report For

Client: AECOM

Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02

Attention: Katharine Carr Green
3995 Via Oro Ave
Long Beach, CA 90810-1869

Vikas Patel

Approved for release on 09/19/2014 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 14-09-0173

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Work Order Narrative

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/03/14. They were assigned to Work Order 14-09-0173.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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QC Association Summary

Work Order: 14-09-0173

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
TB-20140903	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140905S028	140905L045
EB-20140903	EPA 314.0 (M) pCBSA		N/A	IC 8	140905S01	140905L01
EB-20140903	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140905S028	140905L045
BF-28-20140903	EPA 314.0 (M) pCBSA		N/A	IC 8	140905S01	140905L01
BF-28-20140903	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140905S028	140905L045
BF-27-20140903	EPA 314.0 (M) pCBSA		N/A	IC 8	140905S01	140905L01
BF-27-20140903	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140905S028	140905L045
SWL0027-20140903	EPA 314.0 (M) pCBSA		N/A	IC 8	140905S01	140905L01
SWL0027-20140903	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140905S028	140905L045
G-18-20140903	EPA 314.0 (M) pCBSA		N/A	IC 8	140905S01	140905L01
G-18-20140903	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140905S028	140905L045
SWL0026-20140903	EPA 314.0 (M) pCBSA		N/A	IC 8	140905S01	140905L01
SWL0026-20140903	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140905S01	140905L01
SWL0026-20140903	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140905S028	140905L045
G-19A-20140903	EPA 314.0 (M) pCBSA		N/A	IC 8	140905S01	140905L01
G-19A-20140903	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140905S028	140905L045
G-19A-20140903	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140909S027	140909L033
BF-22-20140903	EPA 314.0 (M) pCBSA		N/A	IC 8	140905S01	140905L01
BF-22-20140903	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140905S028	140905L045
G-28-20140903	EPA 314.0 (M) pCBSA		N/A	IC 8	140905S01	140905L01
G-28-20140903	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140905S028	140905L045

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0173
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/03/14
Attn:	Katharine Carr Green		Page 1 of 1

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
EB-20140903 (14-09-0173-2)						
Methylene Chloride	0.41	J	0.38*	ug/L	EPA 8260B	EPA 5030C
BF-28-20140903 (14-09-0173-3)						
p-Chlorobenzenesulfonic Acid	390		50	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	0.48	J	0.14*	ug/L	EPA 8260B	EPA 5030C
BF-27-20140903 (14-09-0173-4)						
Chlorobenzene	0.66		0.50	ug/L	EPA 8260B	EPA 5030C
SWL0027-20140903 (14-09-0173-5)						
p-Chlorobenzenesulfonic Acid	77		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
G-18-20140903 (14-09-0173-6)						
p-Chlorobenzenesulfonic Acid	2000		250	ug/L	EPA 314.0 (M) pCBSA	N/A
SWL0026-20140903 (14-09-0173-7)						
p-Chlorobenzenesulfonic Acid	110	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	110		10	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	0.73		0.50	ug/L	EPA 8260B	EPA 5030C
G-19A-20140903 (14-09-0173-8)						
p-Chlorobenzenesulfonic Acid	5700		500	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	0.62		0.50	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	110	E	0.50	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	110		2.5	ug/L	EPA 8260B	EPA 5030C
BF-22-20140903 (14-09-0173-9)						
p-Chlorobenzenesulfonic Acid	14000		2000	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	4.6		0.50	ug/L	EPA 8260B	EPA 5030C
Chloroform	0.31	J	0.22*	ug/L	EPA 8260B	EPA 5030C
Styrene	0.80		0.50	ug/L	EPA 8260B	EPA 5030C
G-28-20140903 (14-09-0173-10)						
p-Chlorobenzenesulfonic Acid	2000		250	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	0.94		0.50	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

* MDL is shown

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140903	**14-09-0173-2-D**	**09/03/14 15:45**	**Aqueous**	**IC 8**	**N/A**	**09/05/14 13:00**	**140905L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

BF-28-20140903	**14-09-0173-3-E**	**09/03/14 10:54**	**Aqueous**	**IC 8**	**N/A**	**09/05/14 13:19**	**140905L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	390	50	4.6	10.0	

BF-27-20140903	**14-09-0173-4-E**	**09/03/14 12:32**	**Aqueous**	**IC 8**	**N/A**	**09/05/14 13:39**	**140905L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

SWL0027-20140903	**14-09-0173-5-E**	**09/03/14 11:45**	**Aqueous**	**IC 8**	**N/A**	**09/05/14 13:58**	**140905L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	77	5.0	0.46	1.00	

G-18-20140903	**14-09-0173-6-E**	**09/03/14 13:45**	**Aqueous**	**IC 8**	**N/A**	**09/05/14 14:18**	**140905L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	2000	250	23	50.0	

SWL0026-20140903	**14-09-0173-7-E**	**09/03/14 12:43**	**Aqueous**	**IC 8**	**N/A**	**09/05/14 14:37**	**140905L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	110	5.0	0.46	1.00	E

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SWL0026-20140903	**14-09-0173-7-E**	**09/03/14 12:43**	**Aqueous**	**IC 8**	**N/A**	**09/05/14 17:32**	**140905L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	110	10	0.92	2.00	

G-19A-20140903	**14-09-0173-8-E**	**09/03/14 14:55**	**Aqueous**	**IC 8**	**N/A**	**09/05/14 17:51**	**140905L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	5700	500	46	100	

BF-22-20140903	**14-09-0173-9-E**	**09/03/14 13:47**	**Aqueous**	**IC 8**	**N/A**	**09/05/14 15:35**	**140905L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	14000	2000	180	400	

G-28-20140903	**14-09-0173-10-E**	**09/03/14 10:00**	**Aqueous**	**IC 8**	**N/A**	**09/05/14 15:55**	**140905L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	2000	250	23	50.0	

Method Blank	**099-15-080-30**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/05/14 11:55**	**140905L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-20140903	**14-09-0173-1-A**	**09/03/14 08:45**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/06/14 02:41**	**140905L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 33

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	104	80-128	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140903	**14-09-0173-2-A**	**09/03/14 15:45**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/06/14 03:10**	**140905L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 33

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	0.41	1.0	0.38	1.00	J
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/03/14
3995 Via Oro Ave	Work Order:	14-09-0173
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 6 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-28-20140903	**14-09-0173-3-A**	**09/03/14 10:54**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/06/14 03:38**	**140905L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	0.48	0.50	0.14	1.00	J
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 33

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/03/14
3995 Via Oro Ave	Work Order:	14-09-0173
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 9 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	106	80-128	
Toluene-d8	97	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-27-20140903	**14-09-0173-4-A**	**09/03/14 12:32**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/06/14 04:07**	**140905L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	0.66	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 33

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/03/14
3995 Via Oro Ave	Work Order:	14-09-0173
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 12 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 13 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SWL0027-20140903	**14-09-0173-5-A**	**09/03/14 11:45**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/06/14 04:35**	**140905L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 14 of 33

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/03/14
3995 Via Oro Ave	Work Order:	14-09-0173
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 15 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	109	80-128	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 16 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-18-20140903	**14-09-0173-6-A**	**09/03/14 13:45**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/06/14 05:04**	**140905L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 17 of 33

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/03/14
3995 Via Oro Ave	Work Order:	14-09-0173
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 18 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	97	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 19 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SWL0026-20140903	**14-09-0173-7-A**	**09/03/14 12:43**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/06/14 05:32**	**140905L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	0.73	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 20 of 33

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/03/14
3995 Via Oro Ave	Work Order:	14-09-0173
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 21 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	68-120	
Dibromofluoromethane	107	80-127	
1,2-Dichloroethane-d4	114	80-128	
Toluene-d8	97	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 22 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-19A-20140903	**14-09-0173-8-A**	**09/03/14 14:55**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/06/14 06:00**	**140905L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	0.62	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	110	0.50	0.14	1.00	E
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 23 of 33

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 24 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-120	
Dibromofluoromethane	105	80-127	
1,2-Dichloroethane-d4	110	80-128	
Toluene-d8	99	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-19A-20140903	**14-09-0173-8-B**	**09/03/14 14:55**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 02:35**	**140909L033**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	110	2.5	0.72	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	101	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 25 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-22-20140903	**14-09-0173-9-A**	**09/03/14 13:47**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/06/14 06:29**	**140905L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	4.6	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	0.31	0.50	0.22	1.00	J
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 26 of 33

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	0.80	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/03/14
3995 Via Oro Ave	Work Order:	14-09-0173
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 27 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	102	80-128	
Toluene-d8	97	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 28 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-28-20140903	**14-09-0173-10-A**	**09/03/14 10:00**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/06/14 08:51**	**140905L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	0.94	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 29 of 33

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/03/14
3995 Via Oro Ave	Work Order:	14-09-0173
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 30 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	106	80-128	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 31 of 33

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-63**	**N/A**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/05/14 23:50**	**140905L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 32 of 33

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 33 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	68-120	
Dibromofluoromethane	105	80-127	
1,2-Dichloroethane-d4	110	80-128	
Toluene-d8	98	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-65**	**N/A**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/09/14 23:44**	**140909L033**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	ND	0.50	0.14	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	68-120	
Dibromofluoromethane	96	80-127	
1,2-Dichloroethane-d4	98	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BF-27-20140903	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/05/14 13:39**	**140905S01**
BF-27-20140903	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/05/14 16:14**	**140905S01**
BF-27-20140903	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/05/14 16:33**	**140905S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	25.00	22.80	91	23.96	96	70-130	5	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BF-27-20140903	**Sample**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/06/14 04:07**	**140905S028**
BF-27-20140903	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/06/14 06:57**	**140905S028**
BF-27-20140903	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/06/14 07:26**	**140905S028**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	9.336	93	10.91	109	80-120	16	0-20	
Benzene	ND	10.00	9.810	98	10.22	102	76-124	4	0-20	
Bromobenzene	ND	10.00	10.19	102	10.21	102	80-120	0	0-20	
Bromochloromethane	ND	10.00	9.246	92	10.81	108	80-120	16	0-20	
Bromodichloromethane	ND	10.00	8.899	89	9.754	98	80-120	9	0-20	
Bromoform	ND	10.00	7.094	71	7.480	75	80-120	5	0-20	3
Bromomethane	ND	10.00	8.456	85	8.944	89	80-120	6	0-20	
2-Butanone	ND	10.00	9.534	95	9.555	96	80-120	0	0-20	
n-Butylbenzene	ND	10.00	10.50	105	10.66	107	80-120	2	0-25	
sec-Butylbenzene	ND	10.00	10.56	106	11.02	110	80-120	4	0-20	
tert-Butylbenzene	ND	10.00	10.79	108	11.44	114	80-120	6	0-20	
Carbon Disulfide	ND	10.00	8.850	88	9.196	92	80-120	4	0-20	
Carbon Tetrachloride	ND	10.00	8.749	87	9.414	94	74-134	7	0-20	
Chlorobenzene	0.6554	10.00	11.06	104	10.93	103	80-120	1	0-20	
Chloroethane	ND	10.00	9.993	100	9.694	97	80-120	3	0-20	
Chloroform	ND	10.00	10.24	102	10.70	107	80-120	4	0-20	
Chloromethane	ND	10.00	10.09	101	10.64	106	80-120	5	0-20	
2-Chlorotoluene	ND	10.00	10.57	106	10.63	106	80-120	1	0-20	
4-Chlorotoluene	ND	10.00	10.35	104	10.63	106	80-120	3	0-20	
Dibromochloromethane	ND	10.00	7.948	79	8.697	87	80-120	9	0-20	3
1,2-Dibromo-3-Chloropropane	ND	10.00	8.132	81	8.846	88	80-120	8	0-20	
1,2-Dibromoethane	ND	10.00	9.656	97	9.875	99	80-120	2	0-20	
Dibromomethane	ND	10.00	9.836	98	9.978	100	80-120	1	0-20	
1,2-Dichlorobenzene	ND	10.00	10.72	107	11.02	110	80-120	3	0-20	
1,3-Dichlorobenzene	ND	10.00	10.50	105	10.75	107	80-120	2	0-20	
1,4-Dichlorobenzene	ND	10.00	10.15	101	10.35	103	80-120	2	0-20	
Dichlorodifluoromethane	ND	10.00	10.50	105	10.50	105	80-120	0	0-20	
1,1-Dichloroethane	ND	10.00	9.527	95	9.986	100	80-120	5	0-20	
1,2-Dichloroethane	ND	10.00	9.900	99	10.22	102	80-120	3	0-20	
1,1-Dichloroethene	ND	10.00	9.792	98	10.76	108	73-127	9	0-20	
c-1,2-Dichloroethene	ND	10.00	9.928	99	10.65	106	80-120	7	0-20	
t-1,2-Dichloroethene	ND	10.00	9.516	95	10.28	103	80-120	8	0-20	
1,2-Dichloropropane	ND	10.00	9.504	95	9.639	96	80-120	1	0-25	
1,3-Dichloropropane	ND	10.00	9.642	96	9.777	98	80-120	1	0-20	
2,2-Dichloropropane	ND	10.00	8.000	80	8.364	84	80-120	4	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 7

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	10.51	105	10.94	109	80-120	4	0-20	
c-1,3-Dichloropropene	ND	10.00	9.026	90	9.336	93	80-120	3	0-20	
t-1,3-Dichloropropene	ND	10.00	8.375	84	8.417	84	80-120	1	0-20	
Ethylbenzene	ND	10.00	9.906	99	9.964	100	78-126	1	0-20	
2-Hexanone	ND	10.00	9.236	92	9.372	94	80-120	1	0-20	
Isopropylbenzene	ND	10.00	10.30	103	10.70	107	80-120	4	0-20	
p-Isopropyltoluene	ND	10.00	9.507	95	9.853	99	80-120	4	0-20	
Methylene Chloride	ND	10.00	9.840	98	10.45	105	80-120	6	0-20	
4-Methyl-2-Pentanone	ND	10.00	9.362	94	9.955	100	80-120	6	0-20	
Naphthalene	ND	10.00	11.38	114	11.84	118	80-120	4	0-20	
n-Propylbenzene	ND	10.00	10.20	102	10.46	105	80-120	3	0-20	
Styrene	ND	10.00	10.02	100	10.09	101	80-120	1	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	8.632	86	9.053	91	80-120	5	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	9.972	100	9.937	99	80-120	0	0-20	
Tetrachloroethene	ND	10.00	8.158	82	8.092	81	80-120	1	0-20	
Toluene	ND	10.00	9.822	98	10.35	103	80-120	5	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.70	107	10.91	109	80-120	2	0-20	
1,2,4-Trichlorobenzene	ND	10.00	10.42	104	10.87	109	80-120	4	0-20	
1,1,1-Trichloroethane	ND	10.00	9.727	97	10.17	102	80-120	4	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	9.777	98	10.34	103	80-120	6	0-20	
1,1,2-Trichloroethane	ND	10.00	9.351	94	9.385	94	80-120	0	0-20	
Trichloroethene	ND	10.00	9.424	94	9.854	99	77-120	4	0-20	
Trichlorofluoromethane	ND	10.00	10.62	106	10.87	109	80-120	2	0-20	
1,2,3-Trichloropropane	ND	10.00	8.000	80	8.331	83	80-120	4	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.17	102	10.61	106	80-120	4	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.29	103	10.48	105	80-120	2	0-20	
Vinyl Acetate	ND	10.00	9.013	90	9.430	94	80-120	5	0-20	
Vinyl Chloride	ND	10.00	9.740	97	10.19	102	72-126	5	0-20	
p/m-Xylene	ND	20.00	20.96	105	21.45	107	80-120	2	0-20	
o-Xylene	ND	10.00	10.72	107	10.97	110	80-120	2	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.378	94	9.602	96	67-121	2	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	53.04	106	48.95	98	36-162	8	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	9.967	100	10.52	105	60-138	5	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.220	92	9.552	96	69-123	4	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	8.591	86	8.760	88	65-120	2	0-20	
Ethanol	ND	100.0	126.0	126	130.5	130	30-180	3	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BF-27-20140903	**Sample**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/06/14 04:07**	**140905S028**
BF-27-20140903	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/06/14 06:57**	**140905S028**
BF-27-20140903	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/06/14 07:26**	**140905S028**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.832	98	9.940	99	68-120	
Dibromofluoromethane	10.00	10.75	108	10.56	106	80-127	
1,2-Dichloroethane-d4	10.00	10.76	108	10.85	108	80-128	
Toluene-d8	10.00	9.794	98	9.735	97	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0312-4	**Sample**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 01:09**	**140909S027**
14-09-0312-4	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 01:38**	**140909S027**
14-09-0312-4	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 02:06**	**140909S027**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	9.135	91	8.526	85	80-120	7	0-20	
Benzene	ND	10.00	10.36	104	10.29	103	76-124	1	0-20	
Bromobenzene	ND	10.00	10.41	104	10.24	102	80-120	2	0-20	
Bromochloromethane	ND	10.00	10.84	108	10.78	108	80-120	1	0-20	
Bromodichloromethane	ND	10.00	9.960	100	10.00	100	80-120	0	0-20	
Bromoform	ND	10.00	9.104	91	9.339	93	80-120	3	0-20	
Bromomethane	ND	10.00	11.46	115	10.24	102	80-120	11	0-20	
2-Butanone	ND	10.00	9.638	96	8.968	90	80-120	7	0-20	
n-Butylbenzene	ND	10.00	10.18	102	10.24	102	80-120	1	0-25	
sec-Butylbenzene	ND	10.00	10.76	108	10.50	105	80-120	2	0-20	
tert-Butylbenzene	ND	10.00	11.11	111	10.86	109	80-120	2	0-20	
Carbon Disulfide	ND	10.00	9.842	98	9.489	95	80-120	4	0-20	
Carbon Tetrachloride	ND	10.00	9.776	98	10.09	101	74-134	3	0-20	
Chlorobenzene	ND	10.00	10.71	107	10.64	106	80-120	1	0-20	
Chloroethane	ND	10.00	10.21	102	9.757	98	80-120	5	0-20	
Chloroform	ND	10.00	10.21	102	10.22	102	80-120	0	0-20	
Chloromethane	ND	10.00	9.896	99	9.804	98	80-120	1	0-20	
2-Chlorotoluene	ND	10.00	10.87	109	10.84	108	80-120	0	0-20	
4-Chlorotoluene	ND	10.00	10.52	105	10.22	102	80-120	3	0-20	
Dibromochloromethane	ND	10.00	9.784	98	10.03	100	80-120	3	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	9.700	97	9.912	99	80-120	2	0-20	
1,2-Dibromoethane	ND	10.00	10.03	100	10.16	102	80-120	1	0-20	
Dibromomethane	ND	10.00	10.21	102	10.06	101	80-120	2	0-20	
1,2-Dichlorobenzene	ND	10.00	10.73	107	10.38	104	80-120	3	0-20	
1,3-Dichlorobenzene	ND	10.00	10.76	108	10.68	107	80-120	1	0-20	
1,4-Dichlorobenzene	ND	10.00	10.02	100	10.18	102	80-120	2	0-20	
Dichlorodifluoromethane	ND	10.00	10.35	103	10.32	103	80-120	0	0-20	
1,1-Dichloroethane	ND	10.00	9.872	99	9.881	99	80-120	0	0-20	
1,2-Dichloroethane	ND	10.00	9.924	99	9.812	98	80-120	1	0-20	
1,1-Dichloroethene	ND	10.00	10.30	103	10.08	101	73-127	2	0-20	
c-1,2-Dichloroethene	ND	10.00	11.74	117	11.48	115	80-120	2	0-20	
t-1,2-Dichloroethene	ND	10.00	10.25	102	10.35	103	80-120	1	0-20	
1,2-Dichloropropane	ND	10.00	9.824	98	9.638	96	80-120	2	0-25	
1,3-Dichloropropane	ND	10.00	10.22	102	9.942	99	80-120	3	0-20	
2,2-Dichloropropane	ND	10.00	9.142	91	8.857	89	80-120	3	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 6 of 7

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	10.61	106	10.15	102	80-120	4	0-20	
c-1,3-Dichloropropene	ND	10.00	9.847	98	9.833	98	80-120	0	0-20	
t-1,3-Dichloropropene	ND	10.00	9.341	93	9.170	92	80-120	2	0-20	
Ethylbenzene	ND	10.00	10.40	104	10.50	105	78-126	1	0-20	
2-Hexanone	ND	10.00	9.115	91	9.410	94	80-120	3	0-20	
Isopropylbenzene	ND	10.00	10.87	109	10.67	107	80-120	2	0-20	
p-Isopropyltoluene	ND	10.00	9.742	97	9.468	95	80-120	3	0-20	
Methylene Chloride	ND	10.00	10.68	107	10.45	104	80-120	2	0-20	
4-Methyl-2-Pentanone	ND	10.00	10.01	100	10.24	102	80-120	2	0-20	
Naphthalene	ND	10.00	11.72	117	11.77	118	80-120	0	0-20	
n-Propylbenzene	ND	10.00	10.39	104	10.30	103	80-120	1	0-20	
Styrene	ND	10.00	10.33	103	10.29	103	80-120	0	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	9.909	99	9.865	99	80-120	0	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.14	101	10.03	100	80-120	1	0-20	
Tetrachloroethene	ND	10.00	8.456	85	8.349	83	80-120	1	0-20	
Toluene	ND	10.00	10.13	101	10.16	102	80-120	0	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.84	108	11.13	111	80-120	3	0-20	
1,2,4-Trichlorobenzene	ND	10.00	10.84	108	10.68	107	80-120	1	0-20	
1,1,1-Trichloroethane	ND	10.00	10.16	102	9.982	100	80-120	2	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	10.04	100	9.862	99	80-120	2	0-20	
1,1,2-Trichloroethane	ND	10.00	10.09	101	9.964	100	80-120	1	0-20	
Trichloroethene	ND	10.00	9.956	100	9.714	97	77-120	2	0-20	
Trichlorofluoromethane	ND	10.00	10.04	100	9.565	96	80-120	5	0-20	
1,2,3-Trichloropropane	ND	10.00	9.233	92	9.331	93	80-120	1	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.50	105	10.36	104	80-120	1	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.72	107	10.61	106	80-120	1	0-20	
Vinyl Acetate	ND	10.00	9.753	98	9.538	95	80-120	2	0-20	
Vinyl Chloride	ND	10.00	10.63	106	10.67	107	72-126	0	0-20	
p/m-Xylene	ND	20.00	21.69	108	21.33	107	80-120	2	0-20	
o-Xylene	ND	10.00	10.83	108	10.80	108	80-120	0	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.814	98	9.480	95	67-121	3	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	58.82	118	52.33	105	36-162	12	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	10.16	102	10.02	100	60-138	1	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	10.03	100	10.55	105	69-123	5	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.762	98	9.344	93	65-120	4	0-20	
Ethanol	ND	100.0	115.4	115	112.8	113	30-180	2	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0312-4	**Sample**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 01:09**	**140909S027**
14-09-0312-4	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 01:38**	**140909S027**
14-09-0312-4	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 02:06**	**140909S027**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.01	100	10.16	102	68-120	
Dibromofluoromethane	10.00	10.12	101	10.03	100	80-127	
1,2-Dichloroethane-d4	10.00	10.13	101	10.10	101	80-128	
Toluene-d8	10.00	9.922	99	9.872	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-30	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/05/14 12:41**	**140905L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	22.80	91	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-63	**LCS**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/05/14 22:53**	**140905L045**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	14.59	146	80-120	73-127	X
Benzene	10.00	10.02	100	80-120	73-127	
Bromobenzene	10.00	10.44	104	80-120	73-127	
Bromochloromethane	10.00	10.08	101	80-120	73-127	
Bromodichloromethane	10.00	9.986	100	80-120	73-127	
Bromoform	10.00	8.236	82	80-120	73-127	
Bromomethane	10.00	8.414	84	80-120	73-127	
2-Butanone	10.00	12.12	121	80-120	73-127	ME
n-Butylbenzene	10.00	11.05	110	77-123	69-131	
sec-Butylbenzene	10.00	11.03	110	80-120	73-127	
tert-Butylbenzene	10.00	11.05	111	80-120	73-127	
Carbon Disulfide	10.00	9.096	91	80-120	73-127	
Carbon Tetrachloride	10.00	9.824	98	74-134	64-144	
Chlorobenzene	10.00	10.60	106	80-120	73-127	
Chloroethane	10.00	9.946	99	80-120	73-127	
Chloroform	10.00	10.70	107	80-120	73-127	
Chloromethane	10.00	10.40	104	80-120	73-127	
2-Chlorotoluene	10.00	11.04	110	80-120	73-127	
4-Chlorotoluene	10.00	10.72	107	80-120	73-127	
Dibromochloromethane	10.00	9.060	91	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	9.168	92	80-120	73-127	
1,2-Dibromoethane	10.00	10.15	101	79-121	72-128	
Dibromomethane	10.00	9.978	100	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.81	108	80-120	73-127	
1,3-Dichlorobenzene	10.00	11.03	110	80-120	73-127	
1,4-Dichlorobenzene	10.00	10.47	105	80-120	73-127	
Dichlorodifluoromethane	10.00	11.15	111	80-120	73-127	
1,1-Dichloroethane	10.00	9.860	99	80-120	73-127	
1,2-Dichloroethane	10.00	10.75	108	80-120	73-127	
1,1-Dichloroethene	10.00	9.909	99	78-126	70-134	
c-1,2-Dichloroethene	10.00	9.972	100	80-120	73-127	
t-1,2-Dichloroethene	10.00	10.17	102	80-120	73-127	
1,2-Dichloropropane	10.00	9.723	97	79-115	73-121	
1,3-Dichloropropane	10.00	10.14	101	80-120	73-127	
2,2-Dichloropropane	10.00	10.35	103	80-120	73-127	
1,1-Dichloropropene	10.00	11.30	113	80-120	73-127	
c-1,3-Dichloropropene	10.00	10.07	101	80-120	73-127	
t-1,3-Dichloropropene	10.00	9.486	95	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 7

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	10.32	103	80-120	73-127	
2-Hexanone	10.00	10.99	110	80-120	73-127	
Isopropylbenzene	10.00	10.91	109	80-120	73-127	
p-Isopropyltoluene	10.00	10.06	101	80-120	73-127	
Methylene Chloride	10.00	10.40	104	80-120	73-127	
4-Methyl-2-Pentanone	10.00	10.75	107	80-120	73-127	
Naphthalene	10.00	12.13	121	80-120	73-127	ME
n-Propylbenzene	10.00	10.85	108	80-120	73-127	
Styrene	10.00	10.50	105	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	9.809	98	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	10.04	100	80-120	73-127	
Tetrachloroethene	10.00	9.864	99	80-120	73-127	
Toluene	10.00	10.26	103	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	11.38	114	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	10.98	110	80-120	73-127	
1,1,1-Trichloroethane	10.00	10.54	105	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	10.31	103	80-120	73-127	
1,1,2-Trichloroethane	10.00	10.07	101	80-120	73-127	
Trichloroethene	10.00	9.916	99	79-127	71-135	
Trichlorofluoromethane	10.00	11.19	112	80-120	73-127	
1,2,3-Trichloropropane	10.00	8.745	87	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.63	106	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.97	110	80-120	73-127	
Vinyl Acetate	10.00	11.06	111	80-120	73-127	
Vinyl Chloride	10.00	9.970	100	72-132	62-142	
p/m-Xylene	20.00	21.99	110	80-120	73-127	
o-Xylene	10.00	11.10	111	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	9.858	99	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	49.22	98	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	10.34	103	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	10.16	102	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	9.224	92	70-120	62-128	
Ethanol	100.0	129.3	129	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 2
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-63	**LCS**	**Aqueous**	**GC/MS L**	**09/05/14**	**09/05/14 22:53**	**140905L045**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.993	100	68-120	
Dibromofluoromethane	10.00	10.50	105	80-127	
1,2-Dichloroethane-d4	10.00	11.44	114	80-128	
Toluene-d8	10.00	9.645	96	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-65	**LCS**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/09/14 22:18**	**140909L033**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	17.07	171	80-120	73-127	X
Benzene	10.00	10.14	101	80-120	73-127	
Bromobenzene	10.00	10.08	101	80-120	73-127	
Bromochloromethane	10.00	10.10	101	80-120	73-127	
Bromodichloromethane	10.00	10.24	102	80-120	73-127	
Bromoform	10.00	10.86	109	80-120	73-127	
Bromomethane	10.00	13.11	131	80-120	73-127	X
2-Butanone	10.00	11.50	115	80-120	73-127	
n-Butylbenzene	10.00	10.40	104	77-123	69-131	
sec-Butylbenzene	10.00	10.75	108	80-120	73-127	
tert-Butylbenzene	10.00	10.65	106	80-120	73-127	
Carbon Disulfide	10.00	9.097	91	80-120	73-127	
Carbon Tetrachloride	10.00	10.17	102	74-134	64-144	
Chlorobenzene	10.00	10.47	105	80-120	73-127	
Chloroethane	10.00	9.930	99	80-120	73-127	
Chloroform	10.00	9.841	98	80-120	73-127	
Chloromethane	10.00	10.41	104	80-120	73-127	
2-Chlorotoluene	10.00	10.58	106	80-120	73-127	
4-Chlorotoluene	10.00	10.44	104	80-120	73-127	
Dibromochloromethane	10.00	10.81	108	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	10.29	103	80-120	73-127	
1,2-Dibromoethane	10.00	10.32	103	79-121	72-128	
Dibromomethane	10.00	10.17	102	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.52	105	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.76	108	80-120	73-127	
1,4-Dichlorobenzene	10.00	10.07	101	80-120	73-127	
Dichlorodifluoromethane	10.00	10.42	104	80-120	73-127	
1,1-Dichloroethane	10.00	9.688	97	80-120	73-127	
1,2-Dichloroethane	10.00	9.612	96	80-120	73-127	
1,1-Dichloroethene	10.00	10.09	101	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.01	100	80-120	73-127	
t-1,2-Dichloroethene	10.00	10.09	101	80-120	73-127	
1,2-Dichloropropane	10.00	9.760	98	79-115	73-121	
1,3-Dichloropropane	10.00	10.17	102	80-120	73-127	
2,2-Dichloropropane	10.00	9.244	92	80-120	73-127	
1,1-Dichloropropene	10.00	10.21	102	80-120	73-127	
c-1,3-Dichloropropene	10.00	10.04	100	80-120	73-127	
t-1,3-Dichloropropene	10.00	9.550	95	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 6 of 7

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	10.09	101	80-120	73-127	
2-Hexanone	10.00	11.59	116	80-120	73-127	
Isopropylbenzene	10.00	10.49	105	80-120	73-127	
p-Isopropyltoluene	10.00	9.654	97	80-120	73-127	
Methylene Chloride	10.00	10.25	102	80-120	73-127	
4-Methyl-2-Pentanone	10.00	11.29	113	80-120	73-127	
Naphthalene	10.00	12.56	126	80-120	73-127	ME
n-Propylbenzene	10.00	10.24	102	80-120	73-127	
Styrene	10.00	10.10	101	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	10.17	102	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	10.47	105	80-120	73-127	
Tetrachloroethene	10.00	10.06	101	80-120	73-127	
Toluene	10.00	10.02	100	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	11.69	117	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	11.25	113	80-120	73-127	
1,1,1-Trichloroethane	10.00	9.740	97	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	9.778	98	80-120	73-127	
1,1,2-Trichloroethane	10.00	10.14	101	80-120	73-127	
Trichloroethene	10.00	9.648	96	79-127	71-135	
Trichlorofluoromethane	10.00	9.673	97	80-120	73-127	
1,2,3-Trichloropropane	10.00	9.424	94	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.50	105	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.42	104	80-120	73-127	
Vinyl Acetate	10.00	10.20	102	80-120	73-127	
Vinyl Chloride	10.00	11.07	111	72-132	62-142	
p/m-Xylene	20.00	20.92	105	80-120	73-127	
o-Xylene	10.00	10.37	104	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	10.09	101	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	49.48	99	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	9.997	100	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	10.09	101	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	10.03	100	70-120	62-128	
Ethanol	100.0	115.4	115	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 1
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/03/14
3995 Via Oro Ave		Work Order:	14-09-0173
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-65	**LCS**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/09/14 22:18**	**140909L033**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.17	102	68-120	
Dibromofluoromethane	10.00	9.929	99	80-127	
1,2-Dichloroethane-d4	10.00	9.880	99	80-128	
Toluene-d8	10.00	10.03	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-0173

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0 (M) pCBSA	N/A	811	IC 8	1
EPA 8260B	EPA 5030C	316	GC/MS L	2

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Glossary of Terms and Qualifiers

Work Order: 14-09-0173 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AECOM

Chain-of-Custody Record

14-09-0173

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00005
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL 1
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/3/2014
Page: 1 of 2

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
01	TB-20140903	9/3/2014	0845	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
02	EB-20140903	9/3/2014	1545	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
02	EB-20140903	9/3/2014	1545	W	125 mL P	≤6° C	None		1		X	
03	BF-28-20140903	9/3/2014	1054	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
03	BF-28-20140903	9/3/2014	1054	W	125 mL P	≤6° C	None		1		X	
04	BF-27-20140903	9/3/2014	1232	W	40 mL VOA	≤6° C	HCl pH < 2		8	X		MS/MSD
04	BF-27-20140903	9/3/2014	1232	W	125 mL P	≤6° C	None		2		X	MS/MSD
05	SWL0027-20140903	9/3/2014	1145	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
05	SWL0027-20140903	9/3/2014	1145	W	125 mL P	≤6° C	None		1		X	
06	G-18-20140903	9/3/2014	1345	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
06	G-18-20140903	9/3/2014	1345	W	125 mL P	≤6° C	None		1		X	
07	SWL0026-20140903	9/3/2014	1243	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
07	SWL0026-20140903	9/3/2014	1243	W	125 mL P	≤6° C	None		1		X	
08	G-19A-20140903	9/3/2014	1455	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
08	G-19A-20140903	9/3/2014	1455	W	125 mL P	≤6° C	None		1		X	

Analyses Requested

Relinquished By	Date	Received By	Date
Signature: K Carr	9-3-14	Signature: Alex Marquez	9/3/14
Printed: K Carr	Time: 1700	Printed: Alex Marquez	Time: 1700
Company: AECOM		Company: ECI	
Reason:			

Relinquished By	Date	Received By	Date
Signature: Alex Marquez	9/3/14	Signature:	9/3/14
Printed: Alex Marquez	Time: 1802	Printed: Yan Liao	Time: 1802
Company: ECI		Company: ECI	
Reason:			

Relinquished By	Date	Received By	Date
Signature:		Signature:	
Printed:	Time:	Printed:	Time:
Company:		Company:	
Reason:			

Comments:
Shipment summary: 9 samples, 1 cooler, 2 COC pages. TAT Type: 1 Week.
RUN multiple Dilutions when necessary

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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AECOM

Chain-of-Custody Record

14-09-0173

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00005
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL 1
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/3/2014
Page: 2 of 2

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
09	BF-22-20140903	9/3/2014	1347	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
09	BF-22-20140903	9/3/2014	1347	W	125 mL P	≤6° C	None		1		X	

Relinquished By	Date	Received By	Date	Relinquished By	Date	Received By	Date
Signature [signature]	9-3-14	Signature [signature]	9/3/14	Signature [signature]	9/3/14	Signature [signature]	9/3/14
Printed:	Time	Printed: ALEX MARQUEZ	Time	Printed: ALEX MARQUEZ	Time	Printed: Yan Liao	Time
Company AECOM	1700	Company ECL	1700	Company ECL	1800	Company ECL	1800
Reason:				Reason:			

Comments:
Shipment summary: 9 samples, 1 cooler, 2 COC pages. TAT Type: 1 Week.

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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WORK ORDER #: 14-09-0173

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AECOM

DATE: 09/3/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.8 °C - 0.3 °C (CF) = 2.5 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** 678

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Checked by:** 678

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** 862

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☑125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 140828B **Labeled/Checked by:** 862

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 739

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 739

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WORK ORDER #: 14-09-0173

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

- ☐ Sample(s) NOT RECEIVED but listed on COC
- ☑ Sample(s) received but NOT LISTED on COC
- ☐ Holding time expired – list sample ID(s) and test
- ☐ Insufficient quantities for analysis – list test
- ☐ Improper container(s) used – list test
- ☐ Improper preservative used – list test
- ☐ No preservative noted on COC or label – list test & notify lab
- ☐ Sample labels illegible – note test/container type
- ☐ Sample label(s) do not match COC – Note in comments
  - ☐ Sample ID
  - ☐ Date and/or Time Collected
  - ☐ Project Information
  - ☐ # of Container(s)
  - ☐ Analysis
- ☐ Sample container(s) compromised – Note in comments
  - ☐ Water present in sample container
  - ☐ Broken
- ☐ Sample container(s) not labeled
- ☐ Air sample container(s) compromised – Note in comments
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (Not transferred - duplicate bag submitted)
  - ☐ Leaking (transferred into Calscience Tedlar® Bag*)
  - ☐ Leaking (transferred into Client's Tedlar® Bag*)
- ☐ Other: _____

Comments:

(-10) Received 4-vials w/ hcl and 1-125 plastic bottle unpreserved labeled as: G-28-20140903 9/3/14 10:00

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: 09/3/14

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Vikas Patel

From: CarrGreen, Katharine [Katharine.CarrGreen@aecom.com]
Sent: Thursday, September 04, 2014 2:42 PM
To: Vikas Patel
Subject: RE: Montrose 2014 BL GW Sampling / 60288979.13.02 - 14-09-0173 - COC Document

Yes . I will send a correct COC later today

Katharine

D: 562-213-4166
C: 310-569-1053

From: Vikas Patel [mailto:VikasPatel@eurofinsUS.com]
Sent: Thursday, September 04, 2014 10:52 AM
To: CarrGreen, Katharine
Cc: Vikas Patel
Subject: Montrose 2014 BL GW Sampling / 60288979.13.02 - 14-09-0173 - COC Document

Hello Katharine – We received four (4) - 40ml VOA vials w/HCl and one (1) - 125ml HDPE for sample G-28-20140903 (9/3/2014 @ 10:00) not listed on the Chain of Custody. Do you want this sample analyzed?

Regards,

Vik Patel
Project Manager

Eurofins Calscience, Inc
7440 Lincoln Way
Garden Grove, CA 92841-1427
USA

Phone +1 714 895 5494
Fax +1 714 894 7501

Please note new e-mail adddress below, please update your records. Thank you.

Email: vikaspatel@eurofinsUS.com
Website: www.calscience.com

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WORK ORDER NUMBER: 14-09-0312

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AECOM

Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02

Attention: Katharine Carr Green
3995 Via Oro Ave
Long Beach, CA 90810-1869

Vikas Patel

Approved for release on 09/22/2014 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 14-09-0312

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Work Order Narrative

Work Order: 14-09-0312 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/04/14. They were assigned to Work Order 14-09-0312.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Sample Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0312
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		PO Number:	
		Date/Time Received:	09/04/14 18:23
		Number of Containers:	82
Attn:	Katharine Carr Green		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
TB-20140904	14-09-0312-1	09/04/14 07:45	3	Aqueous
EB-20140904	14-09-0312-2	09/04/14 15:30	4	Aqueous
G-32-20140904	14-09-0312-3	09/04/14 12:06	5	Aqueous
G-27-20140904	14-09-0312-4	09/04/14 13:04	5	Aqueous
BF-25-20140904	14-09-0312-5	09/04/14 09:10	5	Aqueous
G-35-20140904	14-09-0312-6	09/04/14 10:13	5	Aqueous
G-29-20140904	14-09-0312-7	09/04/14 11:06	5	Aqueous
MW-26-20140904	14-09-0312-8	09/04/14 14:43	10	Aqueous
BF-10-20140904	14-09-0312-9	09/04/14 10:25	5	Aqueous
G-9-20140904	14-09-0312-10	09/04/14 09:03	5	Aqueous
G-26-20140904	14-09-0312-11	09/04/14 13:36	5	Aqueous
G-2600-20140904	14-09-0312-12	09/04/14 13:36	5	Aqueous
BF-21-20140904	14-09-0312-13	09/04/14 13:52	5	Aqueous
G-24-20140904	14-09-0312-14	09/04/14 14:27	5	Aqueous
BF-17-20140904	14-09-0312-15	09/04/14 12:31	5	Aqueous
BF-15-20140904	14-09-0312-16	09/04/14 14:40	5	Aqueous

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QC Association Summary

Work Order: 14-09-0312

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
TB-20140904	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140909S027	140909L033
EB-20140904	EPA 314.0 (M) pCBSA		N/A	IC 8	140906S01	140906L01
EB-20140904	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140909S027	140909L033
G-32-20140904	EPA 314.0 (M) pCBSA		N/A	IC 8	140906S01	140906L01
G-32-20140904	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140909S027	140909L033
G-27-20140904	EPA 314.0 (M) pCBSA		N/A	IC 8	140906S01	140906L01
G-27-20140904	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140909S027	140909L033
BF-25-20140904	EPA 314.0 (M) pCBSA		N/A	IC 8	140906S01	140906L01
BF-25-20140904	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140909S027	140909L033
G-35-20140904	EPA 314.0 (M) pCBSA		N/A	IC 8	140906S01	140906L01
G-35-20140904	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140909S027	140909L033
G-29-20140904	EPA 314.0 (M) pCBSA		N/A	IC 8	140906S01	140906L01
G-29-20140904	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140909S027	140909L033
MW-26-20140904	EPA 314.0 (M) pCBSA		N/A	IC 8	140906S01A	140906L01
MW-26-20140904	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140910S001	140910L001
BF-10-20140904	EPA 314.0 (M) pCBSA		N/A	IC 8	140906S01	140906L01
BF-10-20140904	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140909S027	140909L033
G-9-20140904	EPA 314.0 (M) pCBSA		N/A	IC 8	140906S01	140906L01
G-9-20140904	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140909S027	140909L033
G-9-20140904	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140910S001	140910L001
G-26-20140904	EPA 314.0 (M) pCBSA		N/A	IC 8	140906S01	140906L01
G-26-20140904	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140906S01A	140906L01
G-26-20140904	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140910S001	140910L001
G-26-20140904	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140910S001	140910L001
G-2600-20140904	EPA 314.0 (M) pCBSA		N/A	IC 8	140906S01	140906L01
G-2600-20140904	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140906S01A	140906L01
G-2600-20140904	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140910S001	140910L001
G-2600-20140904	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140910S001	140910L001
BF-21-20140904	EPA 314.0 (M) pCBSA		N/A	IC 8	140906S01	140906L01
BF-21-20140904	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140906S01A	140906L01
BF-21-20140904	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140910S001	140910L001
BF-21-20140904	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140910S001	140910L001
G-24-20140904	EPA 314.0 (M) pCBSA		N/A	IC 8	140906S01	140906L01
G-24-20140904	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140909S01	140909L01
G-24-20140904	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140910S001	140910L001
G-24-20140904	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140910S001	140910L001
BF-17-20140904	EPA 314.0 (M) pCBSA		N/A	IC 8	140906S01	140906L01
BF-17-20140904	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140906S01A	140906L01
BF-17-20140904	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140910S001	140910L001
BF-17-20140904	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140910S001	140910L001
BF-15-20140904	EPA 314.0 (M) pCBSA		N/A	IC 8	140906S01	140906L01
BF-15-20140904	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140906L02
BF-15-20140904	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140910S001	140910L001
BF-15-20140904	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140910S001	140910L001

1 = Dilution analysis performed, no associated matrix QC

R = Rerun

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0312
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/04/14
Attn:	Katharine Carr Green		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
BF-25-20140904 (14-09-0312-5)						
p-Chlorobenzenesulfonic Acid	4.7	J	0.46*	ug/L	EPA 314.0 (M) pCBSA	N/A
G-35-20140904 (14-09-0312-6)						
p-Chlorobenzenesulfonic Acid	4200		500	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	0.31	J	0.14*	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	3.5		0.50	ug/L	EPA 8260B	EPA 5030C
G-29-20140904 (14-09-0312-7)						
p-Chlorobenzenesulfonic Acid	11000		1000	ug/L	EPA 314.0 (M) pCBSA	N/A
MW-26-20140904 (14-09-0312-8)						
Chloroform	0.32	J	0.22*	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	0.26	J	0.22*	ug/L	EPA 8260B	EPA 5030C
G-9-20140904 (14-09-0312-10)						
p-Chlorobenzenesulfonic Acid	21000		2500	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	2.1		0.50	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	250	E	0.50	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	360		5.0	ug/L	EPA 8260B	EPA 5030C
G-26-20140904 (14-09-0312-11)						
p-Chlorobenzenesulfonic Acid	870	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	720		100	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	83	E	0.50	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	84		10	ug/L	EPA 8260B	EPA 5030C
G-2600-20140904 (14-09-0312-12)						
p-Chlorobenzenesulfonic Acid	870	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	730		100	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	85	E	0.50	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	87		10	ug/L	EPA 8260B	EPA 5030C
BF-21-20140904 (14-09-0312-13)						
p-Chlorobenzenesulfonic Acid	42000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	27000		5000	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	0.68		0.50	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	220	E	0.50	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	240		50	ug/L	EPA 8260B	EPA 5030C
Chloroform	0.59		0.50	ug/L	EPA 8260B	EPA 5030C
1,4-Dichlorobenzene	0.49	J	0.31*	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	1.3		0.50	ug/L	EPA 8260B	EPA 5030C

* MDL is shown

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0312
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/04/14
Attn:	Katharine Carr Green		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
G-24-20140904 (14-09-0312-14)						
p-Chlorobenzenesulfonic Acid	13000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	9200		1000	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	1.7	J	1.6*	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	980	E	2.5	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	1100		50	ug/L	EPA 8260B	EPA 5030C
1,2-Dichlorobenzene	1.7	J	0.85*	ug/L	EPA 8260B	EPA 5030C
1,4-Dichlorobenzene	10		2.5	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	4.4		2.5	ug/L	EPA 8260B	EPA 5030C
BF-17-20140904 (14-09-0312-15)						
p-Chlorobenzenesulfonic Acid	53000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	33000		5000	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	13		12	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	5400	E	12	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	4900		100	ug/L	EPA 8260B	EPA 5030C
1,4-Dichlorobenzene	14		12	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	220		12	ug/L	EPA 8260B	EPA 5030C
BF-15-20140904 (14-09-0312-16)						
p-Chlorobenzenesulfonic Acid	2000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	1400		250	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	1.3	J	1.3*	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	660	E	2.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	690		20	ug/L	EPA 8260B	EPA 5030C
1,4-Dichlorobenzene	2.4		2.0	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	1.6	J	0.74*	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	1.3	J	0.92*	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140904	**14-09-0312-2-D**	**09/04/14 15:30**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 13:18**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

G-32-20140904	**14-09-0312-3-E**	**09/04/14 12:06**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 17:31**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

G-27-20140904	**14-09-0312-4-E**	**09/04/14 13:04**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 17:50**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

BF-25-20140904	**14-09-0312-5-E**	**09/04/14 09:10**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 18:09**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	4.7	5.0	0.46	1.00	J

G-35-20140904	**14-09-0312-6-E**	**09/04/14 10:13**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 19:47**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	4200	500	46	100	

G-29-20140904	**14-09-0312-7-E**	**09/04/14 11:06**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 20:06**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	11000	1000	92	200	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-26-20140904	**14-09-0312-8-J**	**09/04/14 14:43**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 20:25**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

BF-10-20140904	**14-09-0312-9-E**	**09/04/14 10:25**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 20:45**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

G-9-20140904	**14-09-0312-10-E**	**09/04/14 09:03**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 21:04**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	21000	2500	230	500	

G-26-20140904	**14-09-0312-11-E**	**09/04/14 13:36**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 13:38**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	870	5.0	0.46	1.00	E

G-26-20140904	**14-09-0312-11-E**	**09/04/14 13:36**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 22:02**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	720	100	9.2	20.0	

G-2600-20140904	**14-09-0312-12-E**	**09/04/14 13:36**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 14:17**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	870	5.0	0.46	1.00	E

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-2600-20140904	**14-09-0312-12-E**	**09/04/14 13:36**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 22:22**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	730	100	9.2	20.0	

BF-21-20140904	**14-09-0312-13-E**	**09/04/14 13:52**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 14:55**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	42000	5.0	0.46	1.00	E

BF-21-20140904	**14-09-0312-13-E**	**09/04/14 13:52**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 22:41**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	27000	5000	460	1000	

G-24-20140904	**14-09-0312-14-E**	**09/04/14 14:27**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 15:34**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	13000	5.0	0.46	1.00	E

G-24-20140904	**14-09-0312-14-E**	**09/04/14 14:27**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 14:45**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	9200	1000	92	200	

BF-17-20140904	**14-09-0312-15-E**	**09/04/14 12:31**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 16:13**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	53000	5.0	0.46	1.00	E

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-17-20140904	**14-09-0312-15-E**	**09/04/14 12:31**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 23:20**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	33000	5000	460	1000	

BF-15-20140904	**14-09-0312-16-E**	**09/04/14 14:40**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 16:52**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	2000	5.0	0.46	1.00	E

BF-15-20140904	**14-09-0312-16-E**	**09/04/14 14:40**	**Aqueous**	**IC 8**	**N/A**	**09/07/14 01:16**	**140906L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	1400	250	23	50.0	

Method Blank	**099-15-080-35**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 12:38**	**140906L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

Method Blank	**099-15-080-36**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/07/14 00:18**	**140906L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

Method Blank	**099-15-080-32**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 11:47**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-20140904	**14-09-0312-1-A**	**09/04/14 07:45**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 00:12**	**140909L033**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/04/14
3995 Via Oro Ave	Work Order:	14-09-0312
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 3 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	100	80-128	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140904	**14-09-0312-2-A**	**09/04/14 15:30**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 00:41**	**140909L033**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/04/14
3995 Via Oro Ave	Work Order:	14-09-0312
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 6 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	100	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-32-20140904	**14-09-0312-3-A**	**09/04/14 12:06**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 04:00**	**140909L033**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 9 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	99	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-27-20140904	**14-09-0312-4-A**	**09/04/14 13:04**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 01:09**	**140909L033**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 12 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	99	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 13 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-25-20140904	**14-09-0312-5-A**	**09/04/14 09:10**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 04:29**	**140909L033**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 14 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 15 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	97	80-128	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 16 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-35-20140904	**14-09-0312-6-D**	**09/04/14 10:13**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 04:57**	**140909L033**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	0.31	0.50	0.14	1.00	J
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	3.5	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 17 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/04/14
3995 Via Oro Ave	Work Order:	14-09-0312
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 18 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	98	80-128	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 19 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-29-20140904	**14-09-0312-7-D**	**09/04/14 11:06**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 05:26**	**140909L033**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 20 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/04/14
3995 Via Oro Ave	Work Order:	14-09-0312
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 21 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	102	80-128	
Toluene-d8	97	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 22 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-26-20140904	**14-09-0312-8-D**	**09/04/14 14:43**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 12:04**	**140910L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	0.32	0.50	0.22	1.00	J
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 23 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	0.26	0.50	0.22	1.00	J
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/04/14
3995 Via Oro Ave	Work Order:	14-09-0312
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 24 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	68-120	
Dibromofluoromethane	97	80-127	
1,2-Dichloroethane-d4	96	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 25 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-10-20140904	**14-09-0312-9-D**	**09/04/14 10:25**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 05:54**	**140909L033**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 26 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/04/14
3995 Via Oro Ave	Work Order:	14-09-0312
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 27 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	97	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 28 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-9-20140904	**14-09-0312-10-D**	**09/04/14 09:03**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 06:23**	**140909L033**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	2.1	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	250	0.50	0.14	1.00	E
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 29 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 30 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	68-120	
Dibromofluoromethane	97	80-127	
1,2-Dichloroethane-d4	96	80-128	
Toluene-d8	101	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-9-20140904	**14-09-0312-10-C**	**09/04/14 09:03**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 16:22**	**140910L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	360	5.0	1.4	10.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	97	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 31 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-26-20140904	**14-09-0312-11-C**	**09/04/14 13:36**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 18:45**	**140910L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	83	0.50	0.14	1.00	E
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 32 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 33 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	100	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-26-20140904	**14-09-0312-11-D**	**09/04/14 13:36**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 12:33**	**140910L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	84	10	2.9	20.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	101	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 34 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-2600-20140904	**14-09-0312-12-C**	**09/04/14 13:36**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 19:14**	**140910L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	85	0.50	0.14	1.00	E
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 35 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 36 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	109	80-128	
Toluene-d8	100	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-2600-20140904	**14-09-0312-12-D**	**09/04/14 13:36**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 13:01**	**140910L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	87	10	2.9	20.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	101	80-128	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 37 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-21-20140904	**14-09-0312-13-C**	**09/04/14 13:52**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 19:43**	**140910L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	0.68	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	220	0.50	0.14	1.00	E
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	0.59	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	0.49	0.50	0.31	1.00	J
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	1.3	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 38 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 39 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	99	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-21-20140904	**14-09-0312-13-D**	**09/04/14 13:52**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 13:30**	**140910L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	240	50	14	100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 40 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-24-20140904	**14-09-0312-14-C**	**09/04/14 14:27**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 20:11**	**140910L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	50	18	5.00	
Benzene	1.7	2.5	1.6	5.00	J
Bromobenzene	ND	2.5	1.6	5.00	
Bromochloromethane	ND	5.0	1.9	5.00	
Bromodichloromethane	ND	2.5	0.98	5.00	
Bromoform	ND	2.5	1.7	5.00	
Bromomethane	ND	5.0	1.9	5.00	
2-Butanone	ND	25	14	5.00	
n-Butylbenzene	ND	2.5	1.7	5.00	
sec-Butylbenzene	ND	2.5	1.1	5.00	
tert-Butylbenzene	ND	2.5	1.9	5.00	
Carbon Disulfide	ND	5.0	2.2	5.00	
Carbon Tetrachloride	ND	2.5	1.1	5.00	
Chlorobenzene	980	2.5	0.72	5.00	E
Chloroethane	ND	2.5	1.7	5.00	
Chloroform	ND	2.5	1.1	5.00	
Chloromethane	ND	2.5	1.1	5.00	
2-Chlorotoluene	ND	2.5	1.7	5.00	
4-Chlorotoluene	ND	2.5	1.6	5.00	
Dibromochloromethane	ND	2.5	1.2	5.00	
1,2-Dibromo-3-Chloropropane	ND	25	14	5.00	
1,2-Dibromoethane	ND	2.5	1.7	5.00	
Dibromomethane	ND	2.5	1.7	5.00	
1,2-Dichlorobenzene	1.7	2.5	0.85	5.00	J
1,3-Dichlorobenzene	ND	2.5	0.85	5.00	
1,4-Dichlorobenzene	10	2.5	1.6	5.00	
Dichlorodifluoromethane	ND	5.0	1.2	5.00	
1,1-Dichloroethane	ND	2.5	0.95	5.00	
1,2-Dichloroethane	4.4	2.5	0.92	5.00	
1,1-Dichloroethene	ND	2.5	1.0	5.00	
c-1,2-Dichloroethene	ND	2.5	1.2	5.00	
t-1,2-Dichloroethene	ND	2.5	1.3	5.00	
1,2-Dichloropropane	ND	2.5	1.2	5.00	
1,3-Dichloropropane	ND	5.0	1.2	5.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 41 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	5.0	2.1	5.00	
1,1-Dichloropropene	ND	2.5	1.4	5.00	
c-1,3-Dichloropropene	ND	2.5	0.92	5.00	
t-1,3-Dichloropropene	ND	2.5	1.7	5.00	
Ethylbenzene	ND	2.5	1.6	5.00	
2-Hexanone	ND	50	13	5.00	
Isopropylbenzene	ND	2.5	2.1	5.00	
p-Isopropyltoluene	ND	2.5	0.68	5.00	
Methylene Chloride	ND	5.0	1.9	5.00	
4-Methyl-2-Pentanone	ND	25	14	5.00	
Naphthalene	ND	5.0	2.0	5.00	
n-Propylbenzene	ND	2.5	1.9	5.00	
Styrene	ND	2.5	1.6	5.00	
1,1,1,2-Tetrachloroethane	ND	2.5	1.2	5.00	
1,1,2,2-Tetrachloroethane	ND	2.5	1.1	5.00	
Tetrachloroethene	ND	2.5	1.1	5.00	
Toluene	ND	2.5	1.3	5.00	
1,2,3-Trichlorobenzene	ND	2.5	1.2	5.00	
1,2,4-Trichlorobenzene	ND	2.5	1.2	5.00	
1,1,1-Trichloroethane	ND	2.5	0.95	5.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	2.5	1.3	5.00	
1,1,2-Trichloroethane	ND	2.5	1.6	5.00	
Trichloroethene	ND	2.5	1.2	5.00	
Trichlorofluoromethane	ND	2.5	1.2	5.00	
1,2,3-Trichloropropane	ND	5.0	1.2	5.00	
1,2,4-Trimethylbenzene	ND	2.5	0.75	5.00	
1,3,5-Trimethylbenzene	ND	2.5	1.7	5.00	
Vinyl Acetate	ND	25	11	5.00	
Vinyl Chloride	ND	2.5	1.4	5.00	
p/m-Xylene	ND	2.5	1.2	5.00	
o-Xylene	ND	2.5	2.0	5.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.5	1.4	5.00	
Tert-Butyl Alcohol (TBA)	ND	50	20	5.00	
Diisopropyl Ether (DIPE)	ND	2.5	1.2	5.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.5	1.1	5.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.5	1.2	5.00	
Ethanol	ND	250	87	5.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 42 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	100	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-24-20140904	**14-09-0312-14-D**	**09/04/14 14:27**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 13:59**	**140910L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	1100	50	14	100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	106	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 43 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-17-20140904	**14-09-0312-15-C**	**09/04/14 12:31**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 20:40**	**140910L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	250	88	25.0	
Benzene	13	12	8.1	25.0	
Bromobenzene	ND	12	8.2	25.0	
Bromochloromethane	ND	25	9.5	25.0	
Bromodichloromethane	ND	12	4.9	25.0	
Bromoform	ND	12	8.4	25.0	
Bromomethane	ND	25	9.5	25.0	
2-Butanone	ND	120	72	25.0	
n-Butylbenzene	ND	12	8.6	25.0	
sec-Butylbenzene	ND	12	5.7	25.0	
tert-Butylbenzene	ND	12	9.5	25.0	
Carbon Disulfide	ND	25	11	25.0	
Carbon Tetrachloride	ND	12	5.4	25.0	
Chlorobenzene	5400	12	3.6	25.0	E
Chloroethane	ND	12	8.5	25.0	
Chloroform	ND	12	5.4	25.0	
Chloromethane	ND	12	5.4	25.0	
2-Chlorotoluene	ND	12	8.5	25.0	
4-Chlorotoluene	ND	12	8.2	25.0	
Dibromochloromethane	ND	12	5.9	25.0	
1,2-Dibromo-3-Chloropropane	ND	120	72	25.0	
1,2-Dibromoethane	ND	12	8.4	25.0	
Dibromomethane	ND	12	8.6	25.0	
1,2-Dichlorobenzene	ND	12	4.2	25.0	
1,3-Dichlorobenzene	ND	12	4.2	25.0	
1,4-Dichlorobenzene	14	12	7.8	25.0	
Dichlorodifluoromethane	ND	25	5.9	25.0	
1,1-Dichloroethane	ND	12	4.8	25.0	
1,2-Dichloroethane	220	12	4.6	25.0	
1,1-Dichloroethene	ND	12	5.0	25.0	
c-1,2-Dichloroethene	ND	12	6.1	25.0	
t-1,2-Dichloroethene	ND	12	6.5	25.0	
1,2-Dichloropropane	ND	12	6.0	25.0	
1,3-Dichloropropane	ND	25	6.0	25.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 44 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	25	11	25.0	
1,1-Dichloropropene	ND	12	7.0	25.0	
c-1,3-Dichloropropene	ND	12	4.6	25.0	
t-1,3-Dichloropropene	ND	12	8.7	25.0	
Ethylbenzene	ND	12	7.9	25.0	
2-Hexanone	ND	250	65	25.0	
Isopropylbenzene	ND	12	10	25.0	
p-Isopropyltoluene	ND	12	3.4	25.0	
Methylene Chloride	ND	25	9.6	25.0	
4-Methyl-2-Pentanone	ND	120	68	25.0	
Naphthalene	ND	25	10	25.0	
n-Propylbenzene	ND	12	9.5	25.0	
Styrene	ND	12	8.1	25.0	
1,1,1,2-Tetrachloroethane	ND	12	5.9	25.0	
1,1,2,2-Tetrachloroethane	ND	12	5.5	25.0	
Tetrachloroethene	ND	12	5.4	25.0	
Toluene	ND	12	6.6	25.0	
1,2,3-Trichlorobenzene	ND	12	6.2	25.0	
1,2,4-Trichlorobenzene	ND	12	6.2	25.0	
1,1,1-Trichloroethane	ND	12	4.8	25.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	12	6.4	25.0	
1,1,2-Trichloroethane	ND	12	8.1	25.0	
Trichloroethene	ND	12	5.8	25.0	
Trichlorofluoromethane	ND	12	6.2	25.0	
1,2,3-Trichloropropane	ND	25	6.2	25.0	
1,2,4-Trimethylbenzene	ND	12	3.8	25.0	
1,3,5-Trimethylbenzene	ND	12	8.3	25.0	
Vinyl Acetate	ND	120	56	25.0	
Vinyl Chloride	ND	12	6.8	25.0	
p/m-Xylene	ND	12	5.9	25.0	
o-Xylene	ND	12	9.8	25.0	
Methyl-t-Butyl Ether (MTBE)	ND	12	7.2	25.0	
Tert-Butyl Alcohol (TBA)	ND	250	100	25.0	
Diisopropyl Ether (DIPE)	ND	12	5.9	25.0	
Ethyl-t-Butyl Ether (ETBE)	ND	12	5.4	25.0	
Tert-Amyl-Methyl Ether (TAME)	ND	12	5.9	25.0	
Ethanol	ND	1200	430	25.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 45 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	99	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-17-20140904	**14-09-0312-15-D**	**09/04/14 12:31**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 14:27**	**140910L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	4900	100	29	200	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	68-120	
Dibromofluoromethane	103	80-127	
1,2-Dichloroethane-d4	106	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 46 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-15-20140904	**14-09-0312-16-C**	**09/04/14 14:40**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 21:09**	**140910L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	40	14	4.00	
Benzene	1.3	2.0	1.3	4.00	J
Bromobenzene	ND	2.0	1.3	4.00	
Bromochloromethane	ND	4.0	1.5	4.00	
Bromodichloromethane	ND	2.0	0.78	4.00	
Bromoform	ND	2.0	1.3	4.00	
Bromomethane	ND	4.0	1.5	4.00	
2-Butanone	ND	20	12	4.00	
n-Butylbenzene	ND	2.0	1.4	4.00	
sec-Butylbenzene	ND	2.0	0.91	4.00	
tert-Butylbenzene	ND	2.0	1.5	4.00	
Carbon Disulfide	ND	4.0	1.8	4.00	
Carbon Tetrachloride	ND	2.0	0.86	4.00	
Chlorobenzene	660	2.0	0.58	4.00	E
Chloroethane	ND	2.0	1.4	4.00	
Chloroform	ND	2.0	0.86	4.00	
Chloromethane	ND	2.0	0.86	4.00	
2-Chlorotoluene	ND	2.0	1.4	4.00	
4-Chlorotoluene	ND	2.0	1.3	4.00	
Dibromochloromethane	ND	2.0	0.94	4.00	
1,2-Dibromo-3-Chloropropane	ND	20	12	4.00	
1,2-Dibromoethane	ND	2.0	1.3	4.00	
Dibromomethane	ND	2.0	1.4	4.00	
1,2-Dichlorobenzene	ND	2.0	0.68	4.00	
1,3-Dichlorobenzene	ND	2.0	0.68	4.00	
1,4-Dichlorobenzene	2.4	2.0	1.2	4.00	
Dichlorodifluoromethane	ND	4.0	0.94	4.00	
1,1-Dichloroethane	ND	2.0	0.76	4.00	
1,2-Dichloroethane	1.6	2.0	0.74	4.00	J
1,1-Dichloroethene	ND	2.0	0.80	4.00	
c-1,2-Dichloroethene	ND	2.0	0.98	4.00	
t-1,2-Dichloroethene	ND	2.0	1.0	4.00	
1,2-Dichloropropane	ND	2.0	0.96	4.00	
1,3-Dichloropropane	ND	4.0	0.96	4.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 47 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	4.0	1.7	4.00	
1,1-Dichloropropene	ND	2.0	1.1	4.00	
c-1,3-Dichloropropene	ND	2.0	0.74	4.00	
t-1,3-Dichloropropene	ND	2.0	1.4	4.00	
Ethylbenzene	ND	2.0	1.3	4.00	
2-Hexanone	ND	40	10	4.00	
Isopropylbenzene	ND	2.0	1.7	4.00	
p-Isopropyltoluene	ND	2.0	0.54	4.00	
Methylene Chloride	ND	4.0	1.5	4.00	
4-Methyl-2-Pentanone	ND	20	11	4.00	
Naphthalene	ND	4.0	1.6	4.00	
n-Propylbenzene	ND	2.0	1.5	4.00	
Styrene	ND	2.0	1.3	4.00	
1,1,1,2-Tetrachloroethane	ND	2.0	0.94	4.00	
1,1,2,2-Tetrachloroethane	ND	2.0	0.88	4.00	
Tetrachloroethene	ND	2.0	0.86	4.00	
Toluene	ND	2.0	1.1	4.00	
1,2,3-Trichlorobenzene	ND	2.0	1.0	4.00	
1,2,4-Trichlorobenzene	ND	2.0	1.0	4.00	
1,1,1-Trichloroethane	ND	2.0	0.76	4.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	2.0	1.0	4.00	
1,1,2-Trichloroethane	ND	2.0	1.3	4.00	
Trichloroethene	1.3	2.0	0.92	4.00	J
Trichlorofluoromethane	ND	2.0	1.0	4.00	
1,2,3-Trichloropropane	ND	4.0	1.0	4.00	
1,2,4-Trimethylbenzene	ND	2.0	0.60	4.00	
1,3,5-Trimethylbenzene	ND	2.0	1.3	4.00	
Vinyl Acetate	ND	20	9.0	4.00	
Vinyl Chloride	ND	2.0	1.1	4.00	
p/m-Xylene	ND	2.0	0.94	4.00	
o-Xylene	ND	2.0	1.6	4.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.2	4.00	
Tert-Butyl Alcohol (TBA)	ND	40	16	4.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.94	4.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.86	4.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.94	4.00	
Ethanol	ND	200	69	4.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 48 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	99	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-15-20140904	**14-09-0312-16-C**	**09/04/14 14:40**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 21:37**	**140910L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	690	20	5.8	40.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 49 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-65**	**N/A**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/09/14 23:44**	**140909L033**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 50 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 51 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	68-120	
Dibromofluoromethane	96	80-127	
1,2-Dichloroethane-d4	98	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 52 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-64**	**N/A**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 11:35**	**140910L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 53 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/04/14
3995 Via Oro Ave	Work Order:	14-09-0312
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 54 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	103	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
G-27-20140904	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 17:50**	**140906S01**
G-27-20140904	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 18:29**	**140906S01**
G-27-20140904	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 18:48**	**140906S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	25.00	21.29	85	22.45	90	70-130	5	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-26-20140904	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 20:25**	**140906S01A**
MW-26-20140904	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 21:24**	**140906S01A**
MW-26-20140904	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 21:43**	**140906S01A**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	25.00	18.84	75	19.25	77	70-130	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0554-4	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 15:43**	**140909S01**
14-09-0554-4	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 16:22**	**140909S01**
14-09-0554-4	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 16:41**	**140909S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	25.00	26.46	106	26.17	105	70-130	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
G-27-20140904	**Sample**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 01:09**	**140909S027**
G-27-20140904	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 01:38**	**140909S027**
G-27-20140904	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 02:06**	**140909S027**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	9.135	91	8.526	85	80-120	7	0-20	
Benzene	ND	10.00	10.36	104	10.29	103	76-124	1	0-20	
Bromobenzene	ND	10.00	10.41	104	10.24	102	80-120	2	0-20	
Bromochloromethane	ND	10.00	10.84	108	10.78	108	80-120	1	0-20	
Bromodichloromethane	ND	10.00	9.960	100	10.00	100	80-120	0	0-20	
Bromoform	ND	10.00	9.104	91	9.339	93	80-120	3	0-20	
Bromomethane	ND	10.00	11.46	115	10.24	102	80-120	11	0-20	
2-Butanone	ND	10.00	9.638	96	8.968	90	80-120	7	0-20	
n-Butylbenzene	ND	10.00	10.18	102	10.24	102	80-120	1	0-25	
sec-Butylbenzene	ND	10.00	10.76	108	10.50	105	80-120	2	0-20	
tert-Butylbenzene	ND	10.00	11.11	111	10.86	109	80-120	2	0-20	
Carbon Disulfide	ND	10.00	9.842	98	9.489	95	80-120	4	0-20	
Carbon Tetrachloride	ND	10.00	9.776	98	10.09	101	74-134	3	0-20	
Chlorobenzene	ND	10.00	10.71	107	10.64	106	80-120	1	0-20	
Chloroethane	ND	10.00	10.21	102	9.757	98	80-120	5	0-20	
Chloroform	ND	10.00	10.21	102	10.22	102	80-120	0	0-20	
Chloromethane	ND	10.00	9.896	99	9.804	98	80-120	1	0-20	
2-Chlorotoluene	ND	10.00	10.87	109	10.84	108	80-120	0	0-20	
4-Chlorotoluene	ND	10.00	10.52	105	10.22	102	80-120	3	0-20	
Dibromochloromethane	ND	10.00	9.784	98	10.03	100	80-120	3	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	9.700	97	9.912	99	80-120	2	0-20	
1,2-Dibromoethane	ND	10.00	10.03	100	10.16	102	80-120	1	0-20	
Dibromomethane	ND	10.00	10.21	102	10.06	101	80-120	2	0-20	
1,2-Dichlorobenzene	ND	10.00	10.73	107	10.38	104	80-120	3	0-20	
1,3-Dichlorobenzene	ND	10.00	10.76	108	10.68	107	80-120	1	0-20	
1,4-Dichlorobenzene	ND	10.00	10.02	100	10.18	102	80-120	2	0-20	
Dichlorodifluoromethane	ND	10.00	10.35	103	10.32	103	80-120	0	0-20	
1,1-Dichloroethane	ND	10.00	9.872	99	9.881	99	80-120	0	0-20	
1,2-Dichloroethane	ND	10.00	9.924	99	9.812	98	80-120	1	0-20	
1,1-Dichloroethene	ND	10.00	10.30	103	10.08	101	73-127	2	0-20	
c-1,2-Dichloroethene	ND	10.00	11.74	117	11.48	115	80-120	2	0-20	
t-1,2-Dichloroethene	ND	10.00	10.25	102	10.35	103	80-120	1	0-20	
1,2-Dichloropropane	ND	10.00	9.824	98	9.638	96	80-120	2	0-25	
1,3-Dichloropropane	ND	10.00	10.22	102	9.942	99	80-120	3	0-20	
2,2-Dichloropropane	ND	10.00	9.142	91	8.857	89	80-120	3	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 9

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	10.61	106	10.15	102	80-120	4	0-20	
c-1,3-Dichloropropene	ND	10.00	9.847	98	9.833	98	80-120	0	0-20	
t-1,3-Dichloropropene	ND	10.00	9.341	93	9.170	92	80-120	2	0-20	
Ethylbenzene	ND	10.00	10.40	104	10.50	105	78-126	1	0-20	
2-Hexanone	ND	10.00	9.115	91	9.410	94	80-120	3	0-20	
Isopropylbenzene	ND	10.00	10.87	109	10.67	107	80-120	2	0-20	
p-Isopropyltoluene	ND	10.00	9.742	97	9.468	95	80-120	3	0-20	
Methylene Chloride	ND	10.00	10.68	107	10.45	104	80-120	2	0-20	
4-Methyl-2-Pentanone	ND	10.00	10.01	100	10.24	102	80-120	2	0-20	
Naphthalene	ND	10.00	11.72	117	11.77	118	80-120	0	0-20	
n-Propylbenzene	ND	10.00	10.39	104	10.30	103	80-120	1	0-20	
Styrene	ND	10.00	10.33	103	10.29	103	80-120	0	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	9.909	99	9.865	99	80-120	0	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.14	101	10.03	100	80-120	1	0-20	
Tetrachloroethene	ND	10.00	8.456	85	8.349	83	80-120	1	0-20	
Toluene	ND	10.00	10.13	101	10.16	102	80-120	0	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.84	108	11.13	111	80-120	3	0-20	
1,2,4-Trichlorobenzene	ND	10.00	10.84	108	10.68	107	80-120	1	0-20	
1,1,1-Trichloroethane	ND	10.00	10.16	102	9.982	100	80-120	2	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	10.04	100	9.862	99	80-120	2	0-20	
1,1,2-Trichloroethane	ND	10.00	10.09	101	9.964	100	80-120	1	0-20	
Trichloroethene	ND	10.00	9.956	100	9.714	97	77-120	2	0-20	
Trichlorofluoromethane	ND	10.00	10.04	100	9.565	96	80-120	5	0-20	
1,2,3-Trichloropropane	ND	10.00	9.233	92	9.331	93	80-120	1	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.50	105	10.36	104	80-120	1	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.72	107	10.61	106	80-120	1	0-20	
Vinyl Acetate	ND	10.00	9.753	98	9.538	95	80-120	2	0-20	
Vinyl Chloride	ND	10.00	10.63	106	10.67	107	72-126	0	0-20	
p/m-Xylene	ND	20.00	21.69	108	21.33	107	80-120	2	0-20	
o-Xylene	ND	10.00	10.83	108	10.80	108	80-120	0	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.814	98	9.480	95	67-121	3	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	58.82	118	52.33	105	36-162	12	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	10.16	102	10.02	100	60-138	1	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	10.03	100	10.55	105	69-123	5	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.762	98	9.344	93	65-120	4	0-20	
Ethanol	ND	100.0	115.4	115	112.8	113	30-180	2	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 6 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
G-27-20140904	**Sample**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 01:09**	**140909S027**
G-27-20140904	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 01:38**	**140909S027**
G-27-20140904	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/10/14 02:06**	**140909S027**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.01	100	10.16	102	68-120	
Dibromofluoromethane	10.00	10.12	101	10.03	100	80-127	
1,2-Dichloroethane-d4	10.00	10.13	101	10.10	101	80-128	
Toluene-d8	10.00	9.922	99	9.872	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-26-20140904	**Sample**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 12:04**	**140910S001**
MW-26-20140904	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 15:25**	**140910S001**
MW-26-20140904	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 15:53**	**140910S001**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	10.24	102	9.393	94	80-120	9	0-20	
Benzene	ND	10.00	10.30	103	10.35	104	76-124	0	0-20	
Bromobenzene	ND	10.00	10.17	102	10.31	103	80-120	1	0-20	
Bromochloromethane	ND	10.00	9.973	100	9.984	100	80-120	0	0-20	
Bromodichloromethane	ND	10.00	9.709	97	10.01	100	80-120	3	0-20	
Bromoform	ND	10.00	8.817	88	9.410	94	80-120	7	0-20	
Bromomethane	ND	10.00	10.24	102	10.34	103	80-120	1	0-20	
2-Butanone	ND	10.00	10.14	101	11.02	110	80-120	8	0-20	
n-Butylbenzene	ND	10.00	10.66	107	10.36	104	80-120	3	0-25	
sec-Butylbenzene	ND	10.00	11.03	110	10.60	106	80-120	4	0-20	
tert-Butylbenzene	ND	10.00	11.11	111	10.79	108	80-120	3	0-20	
Carbon Disulfide	ND	10.00	8.863	89	8.942	89	80-120	1	0-20	
Carbon Tetrachloride	ND	10.00	9.380	94	9.984	100	74-134	6	0-20	
Chlorobenzene	ND	10.00	10.58	106	10.55	106	80-120	0	0-20	
Chloroethane	ND	10.00	9.622	96	10.03	100	80-120	4	0-20	
Chloroform	ND	10.00	10.35	103	10.56	106	80-120	2	0-20	
Chloromethane	ND	10.00	9.536	95	10.57	106	80-120	10	0-20	
2-Chlorotoluene	ND	10.00	10.64	106	10.85	109	80-120	2	0-20	
4-Chlorotoluene	ND	10.00	10.59	106	10.34	103	80-120	2	0-20	
Dibromochloromethane	ND	10.00	9.410	94	9.922	99	80-120	5	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	9.341	93	9.396	94	80-120	1	0-20	
1,2-Dibromoethane	ND	10.00	9.893	99	10.24	102	80-120	3	0-20	
Dibromomethane	ND	10.00	10.36	104	10.40	104	80-120	0	0-20	
1,2-Dichlorobenzene	ND	10.00	10.90	109	10.75	107	80-120	1	0-20	
1,3-Dichlorobenzene	ND	10.00	10.99	110	10.71	107	80-120	3	0-20	
1,4-Dichlorobenzene	ND	10.00	10.33	103	10.20	102	80-120	1	0-20	
Dichlorodifluoromethane	ND	10.00	10.48	105	11.32	113	80-120	8	0-20	
1,1-Dichloroethane	ND	10.00	9.786	98	9.832	98	80-120	0	0-20	
1,2-Dichloroethane	ND	10.00	10.38	104	10.50	105	80-120	1	0-20	
1,1-Dichloroethene	ND	10.00	9.951	100	10.22	102	73-127	3	0-20	
c-1,2-Dichloroethene	ND	10.00	11.43	114	11.64	116	80-120	2	0-20	
t-1,2-Dichloroethene	ND	10.00	10.25	102	10.28	103	80-120	0	0-20	
1,2-Dichloropropane	ND	10.00	9.809	98	9.616	96	80-120	2	0-25	
1,3-Dichloropropane	ND	10.00	10.10	101	10.25	102	80-120	1	0-20	
2,2-Dichloropropane	ND	10.00	9.426	94	9.734	97	80-120	3	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 9

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	10.38	104	10.45	105	80-120	1	0-20	
c-1,3-Dichloropropene	ND	10.00	9.698	97	9.965	100	80-120	3	0-20	
t-1,3-Dichloropropene	ND	10.00	9.369	94	9.324	93	80-120	0	0-20	
Ethylbenzene	ND	10.00	10.16	102	10.33	103	78-126	2	0-20	
2-Hexanone	ND	10.00	8.935	89	9.929	99	80-120	11	0-20	
Isopropylbenzene	ND	10.00	10.55	105	10.46	105	80-120	1	0-20	
p-Isopropyltoluene	ND	10.00	9.739	97	9.404	94	80-120	4	0-20	
Methylene Chloride	ND	10.00	10.45	104	10.63	106	80-120	2	0-20	
4-Methyl-2-Pentanone	ND	10.00	10.78	108	10.77	108	80-120	0	0-20	
Naphthalene	ND	10.00	11.54	115	11.77	118	80-120	2	0-20	
n-Propylbenzene	ND	10.00	10.38	104	10.35	103	80-120	0	0-20	
Styrene	ND	10.00	9.289	93	9.170	92	80-120	1	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	9.427	94	9.868	99	80-120	5	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.41	104	10.53	105	80-120	1	0-20	
Tetrachloroethene	ND	10.00	8.829	88	8.799	88	80-120	0	0-20	
Toluene	ND	10.00	10.02	100	10.08	101	80-120	1	0-20	
1,2,3-Trichlorobenzene	ND	10.00	11.08	111	11.36	114	80-120	2	0-20	
1,2,4-Trichlorobenzene	ND	10.00	11.19	112	11.12	111	80-120	1	0-20	
1,1,1-Trichloroethane	ND	10.00	9.677	97	9.910	99	80-120	2	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	10.39	104	10.28	103	80-120	1	0-20	
1,1,2-Trichloroethane	ND	10.00	10.03	100	10.09	101	80-120	1	0-20	
Trichloroethene	ND	10.00	10.00	100	9.964	100	77-120	0	0-20	
Trichlorofluoromethane	ND	10.00	9.836	98	10.08	101	80-120	2	0-20	
1,2,3-Trichloropropane	ND	10.00	9.382	94	9.903	99	80-120	5	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.62	106	10.32	103	80-120	3	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.52	105	10.70	107	80-120	2	0-20	
Vinyl Acetate	ND	10.00	9.967	100	10.31	103	80-120	3	0-20	
Vinyl Chloride	ND	10.00	9.890	99	10.67	107	72-126	8	0-20	
p/m-Xylene	ND	20.00	21.11	106	21.04	105	80-120	0	0-20	
o-Xylene	ND	10.00	10.55	105	10.79	108	80-120	2	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.438	94	9.743	97	67-121	3	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	67.37	135	51.06	102	36-162	28	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	10.01	100	10.28	103	60-138	3	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.550	96	9.963	100	69-123	4	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.345	93	9.690	97	65-120	4	0-20	
Ethanol	ND	100.0	116.4	116	118.6	119	30-180	2	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 9 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-26-20140904	**Sample**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 12:04**	**140910S001**
MW-26-20140904	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 15:25**	**140910S001**
MW-26-20140904	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 15:53**	**140910S001**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.04	100	9.943	99	68-120	
Dibromofluoromethane	10.00	10.03	100	10.15	102	80-127	
1,2-Dichloroethane-d4	10.00	10.35	104	10.54	105	80-128	
Toluene-d8	10.00	9.933	99	9.836	98	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-35	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/06/14 12:57**	**140906L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	24.44	98	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-080-36	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/07/14 00:38**	**140906L02**
099-15-080-36	**LCSD**	**Aqueous**	**IC 8**	**N/A**	**09/07/14 00:57**	**140906L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	25.00	100	24.31	97	80-120	3	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-32	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 12:48**	**140909L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	23.95	96	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-65	**LCS**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/09/14 22:18**	**140909L033**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	17.07	171	80-120	73-127	X
Benzene	10.00	10.14	101	80-120	73-127	
Bromobenzene	10.00	10.08	101	80-120	73-127	
Bromochloromethane	10.00	10.10	101	80-120	73-127	
Bromodichloromethane	10.00	10.24	102	80-120	73-127	
Bromoform	10.00	10.86	109	80-120	73-127	
Bromomethane	10.00	13.11	131	80-120	73-127	X
2-Butanone	10.00	11.50	115	80-120	73-127	
n-Butylbenzene	10.00	10.40	104	77-123	69-131	
sec-Butylbenzene	10.00	10.75	108	80-120	73-127	
tert-Butylbenzene	10.00	10.65	106	80-120	73-127	
Carbon Disulfide	10.00	9.097	91	80-120	73-127	
Carbon Tetrachloride	10.00	10.17	102	74-134	64-144	
Chlorobenzene	10.00	10.47	105	80-120	73-127	
Chloroethane	10.00	9.930	99	80-120	73-127	
Chloroform	10.00	9.841	98	80-120	73-127	
Chloromethane	10.00	10.41	104	80-120	73-127	
2-Chlorotoluene	10.00	10.58	106	80-120	73-127	
4-Chlorotoluene	10.00	10.44	104	80-120	73-127	
Dibromochloromethane	10.00	10.81	108	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	10.29	103	80-120	73-127	
1,2-Dibromoethane	10.00	10.32	103	79-121	72-128	
Dibromomethane	10.00	10.17	102	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.52	105	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.76	108	80-120	73-127	
1,4-Dichlorobenzene	10.00	10.07	101	80-120	73-127	
Dichlorodifluoromethane	10.00	10.42	104	80-120	73-127	
1,1-Dichloroethane	10.00	9.688	97	80-120	73-127	
1,2-Dichloroethane	10.00	9.612	96	80-120	73-127	
1,1-Dichloroethene	10.00	10.09	101	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.01	100	80-120	73-127	
t-1,2-Dichloroethene	10.00	10.09	101	80-120	73-127	
1,2-Dichloropropane	10.00	9.760	98	79-115	73-121	
1,3-Dichloropropane	10.00	10.17	102	80-120	73-127	
2,2-Dichloropropane	10.00	9.244	92	80-120	73-127	
1,1-Dichloropropene	10.00	10.21	102	80-120	73-127	
c-1,3-Dichloropropene	10.00	10.04	100	80-120	73-127	
t-1,3-Dichloropropene	10.00	9.550	95	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 9

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	10.09	101	80-120	73-127	
2-Hexanone	10.00	11.59	116	80-120	73-127	
Isopropylbenzene	10.00	10.49	105	80-120	73-127	
p-Isopropyltoluene	10.00	9.654	97	80-120	73-127	
Methylene Chloride	10.00	10.25	102	80-120	73-127	
4-Methyl-2-Pentanone	10.00	11.29	113	80-120	73-127	
Naphthalene	10.00	12.56	126	80-120	73-127	ME
n-Propylbenzene	10.00	10.24	102	80-120	73-127	
Styrene	10.00	10.10	101	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	10.17	102	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	10.47	105	80-120	73-127	
Tetrachloroethene	10.00	10.06	101	80-120	73-127	
Toluene	10.00	10.02	100	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	11.69	117	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	11.25	113	80-120	73-127	
1,1,1-Trichloroethane	10.00	9.740	97	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	9.778	98	80-120	73-127	
1,1,2-Trichloroethane	10.00	10.14	101	80-120	73-127	
Trichloroethene	10.00	9.648	96	79-127	71-135	
Trichlorofluoromethane	10.00	9.673	97	80-120	73-127	
1,2,3-Trichloropropane	10.00	9.424	94	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.50	105	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.42	104	80-120	73-127	
Vinyl Acetate	10.00	10.20	102	80-120	73-127	
Vinyl Chloride	10.00	11.07	111	72-132	62-142	
p/m-Xylene	20.00	20.92	105	80-120	73-127	
o-Xylene	10.00	10.37	104	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	10.09	101	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	49.48	99	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	9.997	100	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	10.09	101	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	10.03	100	70-120	62-128	
Ethanol	100.0	115.4	115	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 1
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 6 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-65	**LCS**	**Aqueous**	**GC/MS L**	**09/09/14**	**09/09/14 22:18**	**140909L033**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.17	102	68-120	
Dibromofluoromethane	10.00	9.929	99	80-127	
1,2-Dichloroethane-d4	10.00	9.880	99	80-128	
Toluene-d8	10.00	10.03	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-64	**LCS**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 10:22**	**140910L001**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	17.87	179	80-120	73-127	X
Benzene	10.00	10.66	107	80-120	73-127	
Bromobenzene	10.00	10.70	107	80-120	73-127	
Bromochloromethane	10.00	10.46	105	80-120	73-127	
Bromodichloromethane	10.00	10.59	106	80-120	73-127	
Bromoform	10.00	10.15	101	80-120	73-127	
Bromomethane	10.00	9.909	99	80-120	73-127	
2-Butanone	10.00	14.19	142	80-120	73-127	X
n-Butylbenzene	10.00	11.27	113	77-123	69-131	
sec-Butylbenzene	10.00	11.56	116	80-120	73-127	
tert-Butylbenzene	10.00	11.32	113	80-120	73-127	
Carbon Disulfide	10.00	9.276	93	80-120	73-127	
Carbon Tetrachloride	10.00	10.34	103	74-134	64-144	
Chlorobenzene	10.00	10.94	109	80-120	73-127	
Chloroethane	10.00	9.259	93	80-120	73-127	
Chloroform	10.00	10.02	100	80-120	73-127	
Chloromethane	10.00	10.49	105	80-120	73-127	
2-Chlorotoluene	10.00	11.28	113	80-120	73-127	
4-Chlorotoluene	10.00	11.05	110	80-120	73-127	
Dibromochloromethane	10.00	10.35	103	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	9.914	99	80-120	73-127	
1,2-Dibromoethane	10.00	10.46	105	79-121	72-128	
Dibromomethane	10.00	10.51	105	80-120	73-127	
1,2-Dichlorobenzene	10.00	11.04	110	80-120	73-127	
1,3-Dichlorobenzene	10.00	11.33	113	80-120	73-127	
1,4-Dichlorobenzene	10.00	10.63	106	80-120	73-127	
Dichlorodifluoromethane	10.00	11.37	114	80-120	73-127	
1,1-Dichloroethane	10.00	9.975	100	80-120	73-127	
1,2-Dichloroethane	10.00	10.50	105	80-120	73-127	
1,1-Dichloroethene	10.00	10.01	100	78-126	70-134	
c-1,2-Dichloroethene	10.00	11.25	113	80-120	73-127	
t-1,2-Dichloroethene	10.00	10.25	103	80-120	73-127	
1,2-Dichloropropane	10.00	9.925	99	79-115	73-121	
1,3-Dichloropropane	10.00	10.35	103	80-120	73-127	
2,2-Dichloropropane	10.00	10.75	107	80-120	73-127	
1,1-Dichloropropene	10.00	10.86	109	80-120	73-127	
c-1,3-Dichloropropene	10.00	10.31	103	80-120	73-127	
t-1,3-Dichloropropene	10.00	9.826	98	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 9

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	10.75	108	80-120	73-127	
2-Hexanone	10.00	12.85	129	80-120	73-127	X
Isopropylbenzene	10.00	11.13	111	80-120	73-127	
p-Isopropyltoluene	10.00	10.28	103	80-120	73-127	
Methylene Chloride	10.00	10.50	105	80-120	73-127	
4-Methyl-2-Pentanone	10.00	10.71	107	80-120	73-127	
Naphthalene	10.00	11.99	120	80-120	73-127	
n-Propylbenzene	10.00	11.10	111	80-120	73-127	
Styrene	10.00	10.62	106	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	10.12	101	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	10.08	101	80-120	73-127	
Tetrachloroethene	10.00	9.453	95	80-120	73-127	
Toluene	10.00	10.54	105	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	11.59	116	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	11.42	114	80-120	73-127	
1,1,1-Trichloroethane	10.00	10.46	105	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	10.31	103	80-120	73-127	
1,1,2-Trichloroethane	10.00	10.08	101	80-120	73-127	
Trichloroethene	10.00	10.51	105	79-127	71-135	
Trichlorofluoromethane	10.00	10.94	109	80-120	73-127	
1,2,3-Trichloropropane	10.00	9.317	93	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.93	109	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	11.09	111	80-120	73-127	
Vinyl Acetate	10.00	10.59	106	80-120	73-127	
Vinyl Chloride	10.00	10.44	104	72-132	62-142	
p/m-Xylene	20.00	22.19	111	80-120	73-127	
o-Xylene	10.00	11.03	110	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	9.474	95	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	50.73	101	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	9.991	100	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	10.22	102	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	9.665	97	70-120	62-128	
Ethanol	100.0	112.4	112	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 0
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/04/14
3995 Via Oro Ave		Work Order:	14-09-0312
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 9 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-64	**LCS**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 10:22**	**140910L001**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.04	100	68-120	
Dibromofluoromethane	10.00	9.890	99	80-127	
1,2-Dichloroethane-d4	10.00	10.39	104	80-128	
Toluene-d8	10.00	9.972	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-0312

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0 (M) pCBSA	N/A	606	IC 8	1
EPA 314.0 (M) pCBSA	N/A	811	IC 8	1
EPA 8260B	EPA 5030C	316	GC/MS L	2

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Glossary of Terms and Qualifiers

Work Order: 14-09-0312 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AECOM

Chain-of-Custody Record

14-09-0312

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00006
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL2
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/4/2014
Page: 1 of 3

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
01	TB-20140904	9/4/2014	0745	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
02	EB-20140904	9/4/2014	1530	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
02	EB-20140904	9/4/2014	1530	W	125 mL P	≤6° C	None		1		X	
03	G-32-20140904	9/4/2014	1206	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
03	G-32-20140904	9/4/2014	1206	W	125 mL P	≤6° C	None		1		X	
04	G-27-20140904	9/4/2014	1304	W	40 mL VOA	≤6° C	HCl pH < 2		8	X		MS/MSD
04	G-27-20140904	9/4/2014	1304	W	125 mL P	≤6° C	None		2		X	MS/MSD
05	BF-25-20140904	9/4/2014	0910	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
05	BF-25-20140904	9/4/2014	0910	W	125 mL P	≤6° C	None		1		X	
06	G-35-20140904	9/4/2014	1013	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
06	G-35-20140904	9/4/2014	1013	W	125 mL P	≤6° C	None		1		X	
07	G-29-20140904	9/4/2014	1106	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
07	G-29-20140904	9/4/2014	1106	W	125 mL P	≤6° C	None		1		X	
08	MW-26-20140904	9/4/2014	1443	W	40 mL VOA	≤6° C	HCl pH < 2		8	X		MS/MSD
08	MW-26-20140904	9/4/2014	1443	W	125 mL P	≤6° C	None		2		X	MS/MSD

Relinquished By	Date	Received By	Date
Signature: K. Carr	9-4-14	Signature: Alex Marquez	9/4/14
Printed: K. Carr	Time: 17:10	Printed: Alex Marquez	Time: 1710
Company: AECOM		Company: ECI	
Reason:			

Relinquished By	Date	Received By	Date
Signature: Alex Marquez	9/4/14	Signature: Danny Le	9/4/14
Printed: Alex Marquez	Time: 1823	Printed: DANNY LE	Time: 18:23
Company: ECI		Company: ECI	
Reason:			

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Comments:
Shipment summary: 16 samples, 1 cooler, 3 COC pages. TAT Type: 1 Week.

multiple Dilutions when necessary (all samples)
Level IV Datapackages.

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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AECOM

Chain-of-Custody Record

0312

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00006
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL2
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/4/2014
Page: 2 of 3

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
09	BF-10-20140904	9/4/2014	1025	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
09	BF-10-20140904	9/4/2014	1025	W	125 mL P	≤6° C	None		1		X	
10	G-9-20140904	9/4/2014	0903	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
10	G-9-20140904	9/4/2014	0903	W	125 mL P	≤6° C	None		1		X	
11	G-26-20140904	9/4/2014	1336	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
11	G-26-20140904	9/4/2014	1336	W	125 mL P	≤6° C	None		1		X	
12	G-2600-20140904	9/4/2014	1336	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
12	G-2600-20140904	9/4/2014	1336	W	125 mL P	≤6° C	None		1		X	
13	BF-21-20140904	9/4/2014	1352	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
13	BF-21-20140904	9/4/2014	1352	W	125 mL P	≤6° C	None		1		X	
14	G-24-20140904	9/4/2014	1427	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
14	G-24-20140904	9/4/2014	1427	W	125 mL P	≤6° C	None		1		X	
15	BF-17-20140904	9/4/2014	1231	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
15	BF-17-20140904	9/4/2014	1231	W	125 mL P	≤6° C	None		1		X	
16	BF-15-20140904	9/4/2014	1440	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		

Analyses Requested

Relinquished By	Date	Received By	Date
Signature:	9-4-14	Signature:	9/4/14
Printed:	Time: 17:10	Printed:	Time: 1710
Company: AECOM		Company: ECI	
Reason:			

Relinquished By	Date	Received By	Date
Signature:	9/4/14	Signature:	9/4/14
Printed: Alex Marquez	Time: 1823	Printed: DANNY LE	Time: 18:23
Company: ECI		Company: ECI	
Reason:			

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Comments:
Shipment summary: 16 samples, 1 cooler, 3 COC pages. TAT Type: 1 Week.

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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AECOM

Chain-of-Custody Record

0312

Laboratory:
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7440 Lincoln Way
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Shipment Number: MT00006
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Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/4/2014
Page: 3 of 3

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	pCBSA (Mod. 314.0)	Remarks
16	BF-15-20140904	9/4/2014	1440	W	125 mL P	≤6° C	None		1	X	

Relinquished By	Date	Received By	Date	Relinquished By	Date	Received By	Date
Signature	9-4-14	Signature	9/4/14	Signature	9/4/14	Signature	9/4/14
Printed:	Time 1710	Printed:	Time 1710	Printed:	Time 1833	Printed:	Time 18:23
Company AECOM		Company		Company		Company	
Reason:				Reason:			

Comments:
Shipment summary: 16 samples, 1 cooler, 3 COC pages. TAT Type: 1 Week.

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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WORK ORDER #: 14-09-0312

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AECOM

DATE: 09/4/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.7 °C - 0.3 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 678

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: 678

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: GMI

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs

☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB

☑250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 140828R **Labeled/Checked by:** GMI

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 681

Preservative: h: HCL n: HNO_3 na_2: $Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** 681

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WORK ORDER #: 14-09-0312

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ Sample(s) NOT RECEIVED but listed on COC
- ☐ Sample(s) received but NOT LISTED on COC
- ☐ Holding time expired – list sample ID(s) and test
- ☐ Insufficient quantities for analysis – list test
- ☐ Improper container(s) used – list test
- ☐ Improper preservative used – list test
- ☐ No preservative noted on COC or label – list test & notify lab
- ☐ Sample labels illegible – note test/container type
- ☑ Sample label(s) do not match COC – Note in comments
  - ☐ Sample ID
  - ☐ Date and/or Time Collected
  - ☐ Project Information
  - ☑ # of Container(s)
  - ☐ Analysis
- ☐ Sample container(s) compromised – Note in comments
  - ☐ Water present in sample container
  - ☐ Broken
- ☐ Sample container(s) not labeled
- ☐ Air sample container(s) compromised – Note in comments
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (Not transferred - duplicate bag submitted)
  - ☐ Leaking (transferred into Calscience Tedlar® Bag*)
  - ☐ Leaking (transferred into Client's Tedlar® Bag*)
- ☐ Other: _____

(-4) Received 5 containers instead of 10.
-4 vials w. HCl
-1x125 mL unpreserved PB.

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: 681 09/4/14

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WORK ORDER NUMBER: 14-09-0448

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AECOM

Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02

Attention: Katharine Carr Green
3995 Via Oro Ave
Long Beach, CA 90810-1869

Vikas Patel

Approved for release on 09/19/2014 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02
Work Order Number: 14-09-0448

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Work Order Narrative

Work Order: 14-09-0448 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/05/14. They were assigned to Work Order 14-09-0448.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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QC Association Summary

Work Order: 14-09-0448

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
TB-20140905	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140910S033	140910L047
EB-20140905	EPA 314.0 (M) pCBSA		N/A	IC 8	140908S01	140908L01
EB-20140905	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140910S033	140910L047
G-23-20140905	EPA 314.0 (M) pCBSA		N/A	IC 8	140908S01	140908L01
G-23-20140905	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140910S033	140910L047
MW-23-20140905	EPA 314.0 (M) pCBSA		N/A	IC 8	140908S01	140908L01
MW-23-20140905	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140910S033	140910L047
MW-24-20140905	EPA 314.0 (M) pCBSA		N/A	IC 8	140908S01	140908L01
MW-24-20140905	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140910S033	140910L047
MW-30-20140905	EPA 314.0 (M) pCBSA		N/A	IC 8	140908S01	140908L01
MW-30-20140905	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140910S033	140910L047
MW-9-20140905	EPA 314.0 (M) pCBSA		N/A	IC 8	140908S01	140908L01
MW-9-20140905	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140910S033	140910L047
MW-9-20140905	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140911S002	140911L002
MW-900-20140905	EPA 314.0 (M) pCBSA		N/A	IC 8	140908S01	140908L01
MW-900-20140905	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140910S033	140910L047
MW-900-20140905	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140911S002	140911L002
BF-14-20140905	EPA 314.0 (M) pCBSA		N/A	IC 8	140908S01	140908L01
BF-14-20140905	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140908L02
BF-14-20140905	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S002	140911L002
BF-14-20140905	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140911S002	140911L002
G-OW-3-20140905	EPA 314.0 (M) pCBSA		N/A	IC 8	140908S01	140908L01
G-OW-3-20140905	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140908L02
G-OW-3-20140905	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S002	140911L002
G-OW-3-20140905	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140910S033	140910L047
G-13-20140905	EPA 314.0 (M) pCBSA		N/A	IC 8	140908S01	140908L01
G-13-20140905	EPA 314.0 (M) pCBSA	R	N/A	IC 8		140908L02
G-13-20140905	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S002	140911L002
G-13-20140905	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140910S033	140910L047
G-1300-20140905	EPA 314.0 (M) pCBSA		N/A	IC 8	140908S01	140908L01
G-1300-20140905	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140908L02
G-1300-20140905	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S002	140911L002
G-1300-20140905	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140910S033	140910L047
BF-16-20140905	EPA 314.0 (M) pCBSA		N/A	IC 8	140908S01	140908L01
BF-16-20140905	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140908L02
BF-16-20140905	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S002	140911L002
BF-16-20140905	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140910S033	140910L047
SWL0033-20140905	EPA 314.0 (M) pCBSA		N/A	IC 8	140908S01	140908L01
SWL0033-20140905	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140908L02
SWL0033-20140905	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S002	140911L002
SWL0033-20140905	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140910S033	140910L047
SWL0034-20140905	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S01	140909L01
SWL0034-20140905	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S002	140911L002
SWL0034-20140905	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140911S002	140911L002

1 = Dilution analysis performed, no associated matrix QC

R = Rerun

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QC Association Summary

Work Order: 14-09-0448

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
BF-24-20140905	EPA 314.0 (M) pCBSA		N/A	IC 8	140908S01	140908L01
BF-24-20140905	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140908L02
BF-24-20140905	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S002	140911L002
BF-24-20140905	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140911S002	140911L002

1 = Dilution analysis performed, no associated matrix QC

R = Rerun

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0448
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/05/14
Attn:	Katharine Carr Green		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
EB-20140905 (14-09-0448-2)						
Methylene Chloride	1.3		1.0	ug/L	EPA 8260B	EPA 5030C
G-23-20140905 (14-09-0448-3)						
p-Chlorobenzenesulfonic Acid	84		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
MW-23-20140905 (14-09-0448-4)						
p-Chlorobenzenesulfonic Acid	5.7		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
Chloroform	0.76		0.50	ug/L	EPA 8260B	EPA 5030C
MW-24-20140905 (14-09-0448-5)						
p-Chlorobenzenesulfonic Acid	11		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
Chloroform	0.55		0.50	ug/L	EPA 8260B	EPA 5030C
MW-30-20140905 (14-09-0448-6)						
Chloroform	0.27	J	0.22*	ug/L	EPA 8260B	EPA 5030C
MW-9-20140905 (14-09-0448-7)						
p-Chlorobenzenesulfonic Acid	2.6	J	0.46*	ug/L	EPA 314.0 (M) pCBSA	N/A
Chloroform	2900	E	10	ug/L	EPA 8260B	EPA 5030C
Chloroform	3000		50	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	43		10	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	5.4	J	4.6*	ug/L	EPA 8260B	EPA 5030C
MW-900-20140905 (14-09-0448-8)						
Chloroform	3000	E	10	ug/L	EPA 8260B	EPA 5030C
Chloroform	3000		50	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	43		10	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	6.2	J	4.6*	ug/L	EPA 8260B	EPA 5030C
BF-14-20140905 (14-09-0448-9)						
p-Chlorobenzenesulfonic Acid	1300	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	1000		100	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	42	E	0.50	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	41		1.0	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	0.34	J	0.22*	ug/L	EPA 8260B	EPA 5030C
G-OW-3-20140905 (14-09-0448-10)						
p-Chlorobenzenesulfonic Acid	11000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	6900		1000	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	5.4		1.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	290	E	1.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	320		100	ug/L	EPA 8260B	EPA 5030C

* MDL is shown

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0448
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/05/14
Attn:	Katharine Carr Green		Page 2 of 3

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
G-13-20140905 (14-09-0448-11)						
p-Chlorobenzenesulfonic Acid	37000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	21000		2000	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	940	E	2.5	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	900		120	ug/L	EPA 8260B	EPA 5030C
G-1300-20140905 (14-09-0448-12)						
p-Chlorobenzenesulfonic Acid	37000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	23000		2500	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	890	E	2.5	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	930		120	ug/L	EPA 8260B	EPA 5030C
BF-16-20140905 (14-09-0448-13)						
p-Chlorobenzenesulfonic Acid	11000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	7100		1000	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	290	E	1.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	320		100	ug/L	EPA 8260B	EPA 5030C
Chloroform	0.73	J	0.43*	ug/L	EPA 8260B	EPA 5030C
1,4-Dichlorobenzene	0.79	J	0.62*	ug/L	EPA 8260B	EPA 5030C
SWL0033-20140905 (14-09-0448-14)						
p-Chlorobenzenesulfonic Acid	67000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	39000		5000	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	33		20	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	6500	E	20	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	6300		120	ug/L	EPA 8260B	EPA 5030C
1,4-Dichlorobenzene	17	J	12*	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	8.3	J	7.4*	ug/L	EPA 8260B	EPA 5030C
SWL0034-20140905 (14-09-0448-15)						
p-Chlorobenzenesulfonic Acid	17		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	69	E	0.50	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	67		2.5	ug/L	EPA 8260B	EPA 5030C
1,4-Dichlorobenzene	0.52		0.50	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	0.28	J	0.18*	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	1.4		0.50	ug/L	EPA 8260B	EPA 5030C

* MDL is shown

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0448
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/05/14
Attn:	Katharine Carr Green		Page 3 of 3

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
BF-24-20140905 (14-09-0448-16)						
p-Chlorobenzenesulfonic Acid	31000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	19000		1000	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	38		5.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	2000	E	5.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	2200		50	ug/L	EPA 8260B	EPA 5030C
1,4-Dichlorobenzene	4.4	J	3.1*	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	320		5.0	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloropropane	10		5.0	ug/L	EPA 8260B	EPA 5030C
Ethylbenzene	32		5.0	ug/L	EPA 8260B	EPA 5030C
Isopropylbenzene	5.7		5.0	ug/L	EPA 8260B	EPA 5030C
1,2,4-Trimethylbenzene	3.8	J	1.5*	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140905	**14-09-0448-2-D**	**09/05/14 14:46**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 14:08**	**140908L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

G-23-20140905	**14-09-0448-3-E**	**09/05/14 09:03**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 14:27**	**140908L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	84	5.0	0.46	1.00	

MW-23-20140905	**14-09-0448-4-E**	**09/05/14 09:30**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 15:06**	**140908L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	5.7	5.0	0.46	1.00	

MW-24-20140905	**14-09-0448-5-E**	**09/05/14 08:28**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 15:25**	**140908L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	11	5.0	0.46	1.00	

MW-30-20140905	**14-09-0448-6-E**	**09/05/14 11:10**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 16:05**	**140908L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

MW-9-20140905	**14-09-0448-7-E**	**09/05/14 10:25**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 16:27**	**140908L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	2.6	5.0	0.46	1.00	J

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-900-20140905	**14-09-0448-8-E**	**09/05/14 10:25**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 16:47**	**140908L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

BF-14-20140905	**14-09-0448-9-E**	**09/05/14 10:03**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 17:07**	**140908L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	1300	5.0	0.46	1.00	E

BF-14-20140905	**14-09-0448-9-E**	**09/05/14 10:03**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 23:36**	**140908L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	1000	100	9.2	20.0	

G-OW-3-20140905	**14-09-0448-10-E**	**09/05/14 11:45**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 17:27**	**140908L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	11000	5.0	0.46	1.00	E

G-OW-3-20140905	**14-09-0448-10-E**	**09/05/14 11:45**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 23:55**	**140908L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	6900	1000	92	200	

G-13-20140905	**14-09-0448-11-E**	**09/05/14 14:30**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 17:46**	**140908L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	37000	5.0	0.46	1.00	E

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-13-20140905	**14-09-0448-11-E**	**09/05/14 14:30**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 00:15**	**140908L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	21000	2000	180	400	

G-1300-20140905	**14-09-0448-12-E**	**09/05/14 14:30**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 20:02**	**140908L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	37000	5.0	0.46	1.00	E

G-1300-20140905	**14-09-0448-12-E**	**09/05/14 14:30**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 00:34**	**140908L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	23000	2500	230	500	

BF-16-20140905	**14-09-0448-13-E**	**09/05/14 15:21**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 20:22**	**140908L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	11000	5.0	0.46	1.00	E

BF-16-20140905	**14-09-0448-13-E**	**09/05/14 15:21**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 00:53**	**140908L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	7100	1000	92	200	

SWL0033-20140905	**14-09-0448-14-E**	**09/05/14 11:30**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 20:41**	**140908L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	67000	5.0	0.46	1.00	E

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SWL0033-20140905	**14-09-0448-14-E**	**09/05/14 11:30**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 01:13**	**140908L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	39000	5000	460	1000	

SWL0034-20140905	**14-09-0448-15-E**	**09/05/14 14:16**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 14:06**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	17	5.0	0.46	1.00	

BF-24-20140905	**14-09-0448-16-E**	**09/05/14 14:05**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 21:20**	**140908L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	31000	5.0	0.46	1.00	E

BF-24-20140905	**14-09-0448-16-E**	**09/05/14 14:05**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 01:32**	**140908L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	19000	1000	92	200	

Method Blank	**099-15-080-33**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 12:07**	**140908L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

Method Blank	**099-15-080-34**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 22:37**	**140908L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-080-32**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 11:47**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-20140905	**14-09-0448-1-A**	**09/05/14 06:00**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 00:29**	**140910L047**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/05/14
3995 Via Oro Ave	Work Order:	14-09-0448
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 3 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	103	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140905	**14-09-0448-2-A**	**09/05/14 14:46**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 00:58**	**140910L047**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	1.3	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/05/14
3995 Via Oro Ave	Work Order:	14-09-0448
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 6 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	101	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-23-20140905	**14-09-0448-3-A**	**09/05/14 09:03**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 01:27**	**140910L047**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 9 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	104	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-23-20140905	**14-09-0448-4-A**	**09/05/14 09:30**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 01:55**	**140910L047**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	0.76	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/05/14
3995 Via Oro Ave	Work Order:	14-09-0448
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 12 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	103	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 13 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-24-20140905	**14-09-0448-5-A**	**09/05/14 08:28**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 02:24**	**140910L047**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	0.55	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 14 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 15 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	104	80-128	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 16 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-30-20140905	**14-09-0448-6-A**	**09/05/14 11:10**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 02:52**	**140910L047**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	0.27	0.50	0.22	1.00	J
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 17 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 18 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	68-120	
Dibromofluoromethane	97	80-127	
1,2-Dichloroethane-d4	101	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 19 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9-20140905	**14-09-0448-7-A**	**09/05/14 10:25**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 03:21**	**140910L047**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	200	71	20.0	
Benzene	ND	10	6.5	20.0	
Bromobenzene	ND	10	6.6	20.0	
Bromochloromethane	ND	20	7.6	20.0	
Bromodichloromethane	ND	10	3.9	20.0	
Bromoform	ND	10	6.7	20.0	
Bromomethane	ND	20	7.6	20.0	
2-Butanone	ND	100	58	20.0	
n-Butylbenzene	ND	10	6.8	20.0	
sec-Butylbenzene	ND	10	4.5	20.0	
tert-Butylbenzene	ND	10	7.6	20.0	
Carbon Disulfide	ND	20	8.8	20.0	
Carbon Tetrachloride	ND	10	4.3	20.0	
Chlorobenzene	ND	10	2.9	20.0	
Chloroethane	ND	10	6.8	20.0	
Chloroform	2900	10	4.3	20.0	E
Chloromethane	ND	10	4.3	20.0	
2-Chlorotoluene	ND	10	6.8	20.0	
4-Chlorotoluene	ND	10	6.6	20.0	
Dibromochloromethane	ND	10	4.7	20.0	
1,2-Dibromo-3-Chloropropane	ND	100	58	20.0	
1,2-Dibromoethane	ND	10	6.7	20.0	
Dibromomethane	ND	10	6.9	20.0	
1,2-Dichlorobenzene	ND	10	3.4	20.0	
1,3-Dichlorobenzene	ND	10	3.4	20.0	
1,4-Dichlorobenzene	ND	10	6.2	20.0	
Dichlorodifluoromethane	ND	20	4.7	20.0	
1,1-Dichloroethane	ND	10	3.8	20.0	
1,2-Dichloroethane	ND	10	3.7	20.0	
1,1-Dichloroethene	ND	10	4.0	20.0	
c-1,2-Dichloroethene	ND	10	4.9	20.0	
t-1,2-Dichloroethene	ND	10	5.2	20.0	
1,2-Dichloropropane	ND	10	4.8	20.0	
1,3-Dichloropropane	ND	20	4.8	20.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 20 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	20	8.5	20.0	
1,1-Dichloropropene	ND	10	5.6	20.0	
c-1,3-Dichloropropene	ND	10	3.7	20.0	
t-1,3-Dichloropropene	ND	10	7.0	20.0	
Ethylbenzene	ND	10	6.3	20.0	
2-Hexanone	ND	200	52	20.0	
Isopropylbenzene	ND	10	8.3	20.0	
p-Isopropyltoluene	ND	10	2.7	20.0	
Methylene Chloride	ND	20	7.7	20.0	
4-Methyl-2-Pentanone	ND	100	54	20.0	
Naphthalene	ND	20	8.1	20.0	
n-Propylbenzene	ND	10	7.6	20.0	
Styrene	ND	10	6.5	20.0	
1,1,1,2-Tetrachloroethane	ND	10	4.7	20.0	
1,1,2,2-Tetrachloroethane	ND	10	4.4	20.0	
Tetrachloroethene	43	10	4.3	20.0	
Toluene	ND	10	5.3	20.0	
1,2,3-Trichlorobenzene	ND	10	5.0	20.0	
1,2,4-Trichlorobenzene	ND	10	5.0	20.0	
1,1,1-Trichloroethane	ND	10	3.8	20.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	5.1	20.0	
1,1,2-Trichloroethane	ND	10	6.5	20.0	
Trichloroethene	5.4	10	4.6	20.0	J
Trichlorofluoromethane	ND	10	5.0	20.0	
1,2,3-Trichloropropane	ND	20	5.0	20.0	
1,2,4-Trimethylbenzene	ND	10	3.0	20.0	
1,3,5-Trimethylbenzene	ND	10	6.6	20.0	
Vinyl Acetate	ND	100	45	20.0	
Vinyl Chloride	ND	10	5.4	20.0	
p/m-Xylene	ND	10	4.7	20.0	
o-Xylene	ND	10	7.8	20.0	
Methyl-t-Butyl Ether (MTBE)	ND	10	5.8	20.0	
Tert-Butyl Alcohol (TBA)	ND	200	82	20.0	
Diisopropyl Ether (DIPE)	ND	10	4.7	20.0	
Ethyl-t-Butyl Ether (ETBE)	ND	10	4.3	20.0	
Tert-Amyl-Methyl Ether (TAME)	ND	10	4.7	20.0	
Ethanol	ND	1000	350	20.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 21 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	103	80-128	
Toluene-d8	99	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9-20140905	**14-09-0448-7-B**	**09/05/14 10:25**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 16:27**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chloroform	3000	50	22	100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	111	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 22 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-900-20140905	**14-09-0448-8-A**	**09/05/14 10:25**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 03:49**	**140910L047**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	200	71	20.0	
Benzene	ND	10	6.5	20.0	
Bromobenzene	ND	10	6.6	20.0	
Bromochloromethane	ND	20	7.6	20.0	
Bromodichloromethane	ND	10	3.9	20.0	
Bromoform	ND	10	6.7	20.0	
Bromomethane	ND	20	7.6	20.0	
2-Butanone	ND	100	58	20.0	
n-Butylbenzene	ND	10	6.8	20.0	
sec-Butylbenzene	ND	10	4.5	20.0	
tert-Butylbenzene	ND	10	7.6	20.0	
Carbon Disulfide	ND	20	8.8	20.0	
Carbon Tetrachloride	ND	10	4.3	20.0	
Chlorobenzene	ND	10	2.9	20.0	
Chloroethane	ND	10	6.8	20.0	
Chloroform	3000	10	4.3	20.0	E
Chloromethane	ND	10	4.3	20.0	
2-Chlorotoluene	ND	10	6.8	20.0	
4-Chlorotoluene	ND	10	6.6	20.0	
Dibromochloromethane	ND	10	4.7	20.0	
1,2-Dibromo-3-Chloropropane	ND	100	58	20.0	
1,2-Dibromoethane	ND	10	6.7	20.0	
Dibromomethane	ND	10	6.9	20.0	
1,2-Dichlorobenzene	ND	10	3.4	20.0	
1,3-Dichlorobenzene	ND	10	3.4	20.0	
1,4-Dichlorobenzene	ND	10	6.2	20.0	
Dichlorodifluoromethane	ND	20	4.7	20.0	
1,1-Dichloroethane	ND	10	3.8	20.0	
1,2-Dichloroethane	ND	10	3.7	20.0	
1,1-Dichloroethene	ND	10	4.0	20.0	
c-1,2-Dichloroethene	ND	10	4.9	20.0	
t-1,2-Dichloroethene	ND	10	5.2	20.0	
1,2-Dichloropropane	ND	10	4.8	20.0	
1,3-Dichloropropane	ND	20	4.8	20.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 23 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	20	8.5	20.0	
1,1-Dichloropropene	ND	10	5.6	20.0	
c-1,3-Dichloropropene	ND	10	3.7	20.0	
t-1,3-Dichloropropene	ND	10	7.0	20.0	
Ethylbenzene	ND	10	6.3	20.0	
2-Hexanone	ND	200	52	20.0	
Isopropylbenzene	ND	10	8.3	20.0	
p-Isopropyltoluene	ND	10	2.7	20.0	
Methylene Chloride	ND	20	7.7	20.0	
4-Methyl-2-Pentanone	ND	100	54	20.0	
Naphthalene	ND	20	8.1	20.0	
n-Propylbenzene	ND	10	7.6	20.0	
Styrene	ND	10	6.5	20.0	
1,1,1,2-Tetrachloroethane	ND	10	4.7	20.0	
1,1,2,2-Tetrachloroethane	ND	10	4.4	20.0	
Tetrachloroethene	43	10	4.3	20.0	
Toluene	ND	10	5.3	20.0	
1,2,3-Trichlorobenzene	ND	10	5.0	20.0	
1,2,4-Trichlorobenzene	ND	10	5.0	20.0	
1,1,1-Trichloroethane	ND	10	3.8	20.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	5.1	20.0	
1,1,2-Trichloroethane	ND	10	6.5	20.0	
Trichloroethene	6.2	10	4.6	20.0	J
Trichlorofluoromethane	ND	10	5.0	20.0	
1,2,3-Trichloropropane	ND	20	5.0	20.0	
1,2,4-Trimethylbenzene	ND	10	3.0	20.0	
1,3,5-Trimethylbenzene	ND	10	6.6	20.0	
Vinyl Acetate	ND	100	45	20.0	
Vinyl Chloride	ND	10	5.4	20.0	
p/m-Xylene	ND	10	4.7	20.0	
o-Xylene	ND	10	7.8	20.0	
Methyl-t-Butyl Ether (MTBE)	ND	10	5.8	20.0	
Tert-Butyl Alcohol (TBA)	ND	200	82	20.0	
Diisopropyl Ether (DIPE)	ND	10	4.7	20.0	
Ethyl-t-Butyl Ether (ETBE)	ND	10	4.3	20.0	
Tert-Amyl-Methyl Ether (TAME)	ND	10	4.7	20.0	
Ethanol	ND	1000	350	20.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 24 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	106	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	100	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-900-20140905	**14-09-0448-8-B**	**09/05/14 10:25**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 16:55**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chloroform	3000	50	22	100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	109	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 25 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-14-20140905	**14-09-0448-9-B**	**09/05/14 10:03**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 17:24**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	42	0.50	0.14	1.00	E
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 26 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	0.34	0.50	0.22	1.00	J
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 27 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	112	80-128	
Toluene-d8	101	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-14-20140905	**14-09-0448-9-B**	**09/05/14 10:03**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 17:53**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	41	1.0	0.29	2.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	112	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 28 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-OW-3-20140905	**14-09-0448-10-B**	**09/05/14 11:45**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 18:21**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	7.1	2.00	
Benzene	5.4	1.0	0.65	2.00	
Bromobenzene	ND	1.0	0.66	2.00	
Bromochloromethane	ND	2.0	0.76	2.00	
Bromodichloromethane	ND	1.0	0.39	2.00	
Bromoform	ND	1.0	0.67	2.00	
Bromomethane	ND	2.0	0.76	2.00	
2-Butanone	ND	10	5.8	2.00	
n-Butylbenzene	ND	1.0	0.68	2.00	
sec-Butylbenzene	ND	1.0	0.45	2.00	
tert-Butylbenzene	ND	1.0	0.76	2.00	
Carbon Disulfide	ND	2.0	0.88	2.00	
Carbon Tetrachloride	ND	1.0	0.43	2.00	
Chlorobenzene	290	1.0	0.29	2.00	E
Chloroethane	ND	1.0	0.68	2.00	
Chloroform	ND	1.0	0.43	2.00	
Chloromethane	ND	1.0	0.43	2.00	
2-Chlorotoluene	ND	1.0	0.68	2.00	
4-Chlorotoluene	ND	1.0	0.66	2.00	
Dibromochloromethane	ND	1.0	0.47	2.00	
1,2-Dibromo-3-Chloropropane	ND	10	5.8	2.00	
1,2-Dibromoethane	ND	1.0	0.67	2.00	
Dibromomethane	ND	1.0	0.69	2.00	
1,2-Dichlorobenzene	ND	1.0	0.34	2.00	
1,3-Dichlorobenzene	ND	1.0	0.34	2.00	
1,4-Dichlorobenzene	ND	1.0	0.62	2.00	
Dichlorodifluoromethane	ND	2.0	0.47	2.00	
1,1-Dichloroethane	ND	1.0	0.38	2.00	
1,2-Dichloroethane	ND	1.0	0.37	2.00	
1,1-Dichloroethene	ND	1.0	0.40	2.00	
c-1,2-Dichloroethene	ND	1.0	0.49	2.00	
t-1,2-Dichloroethene	ND	1.0	0.52	2.00	
1,2-Dichloropropane	ND	1.0	0.48	2.00	
1,3-Dichloropropane	ND	2.0	0.48	2.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 29 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	2.0	0.85	2.00	
1,1-Dichloropropene	ND	1.0	0.56	2.00	
c-1,3-Dichloropropene	ND	1.0	0.37	2.00	
t-1,3-Dichloropropene	ND	1.0	0.70	2.00	
Ethylbenzene	ND	1.0	0.63	2.00	
2-Hexanone	ND	20	5.2	2.00	
Isopropylbenzene	ND	1.0	0.83	2.00	
p-Isopropyltoluene	ND	1.0	0.27	2.00	
Methylene Chloride	ND	2.0	0.77	2.00	
4-Methyl-2-Pentanone	ND	10	5.4	2.00	
Naphthalene	ND	2.0	0.81	2.00	
n-Propylbenzene	ND	1.0	0.76	2.00	
Styrene	ND	1.0	0.65	2.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.47	2.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.44	2.00	
Tetrachloroethene	ND	1.0	0.43	2.00	
Toluene	ND	1.0	0.53	2.00	
1,2,3-Trichlorobenzene	ND	1.0	0.50	2.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	2.00	
1,1,1-Trichloroethane	ND	1.0	0.38	2.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.0	0.51	2.00	
1,1,2-Trichloroethane	ND	1.0	0.65	2.00	
Trichloroethene	ND	1.0	0.46	2.00	
Trichlorofluoromethane	ND	1.0	0.50	2.00	
1,2,3-Trichloropropane	ND	2.0	0.50	2.00	
1,2,4-Trimethylbenzene	ND	1.0	0.30	2.00	
1,3,5-Trimethylbenzene	ND	1.0	0.66	2.00	
Vinyl Acetate	ND	10	4.5	2.00	
Vinyl Chloride	ND	1.0	0.54	2.00	
p/m-Xylene	ND	1.0	0.47	2.00	
o-Xylene	ND	1.0	0.78	2.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.58	2.00	
Tert-Butyl Alcohol (TBA)	ND	20	8.2	2.00	
Diisopropyl Ether (DIPE)	ND	1.0	0.47	2.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	0.43	2.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	0.47	2.00	
Ethanol	ND	100	35	2.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 30 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	106	80-128	
Toluene-d8	100	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-OW-3-20140905	**14-09-0448-10-A**	**09/05/14 11:45**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 04:46**	**140910L047**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	320	100	29	200	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	108	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 31 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-13-20140905	**14-09-0448-11-B**	**09/05/14 14:30**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 18:50**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	50	18	5.00	
Benzene	ND	2.5	1.6	5.00	
Bromobenzene	ND	2.5	1.6	5.00	
Bromochloromethane	ND	5.0	1.9	5.00	
Bromodichloromethane	ND	2.5	0.98	5.00	
Bromoform	ND	2.5	1.7	5.00	
Bromomethane	ND	5.0	1.9	5.00	
2-Butanone	ND	25	14	5.00	
n-Butylbenzene	ND	2.5	1.7	5.00	
sec-Butylbenzene	ND	2.5	1.1	5.00	
tert-Butylbenzene	ND	2.5	1.9	5.00	
Carbon Disulfide	ND	5.0	2.2	5.00	
Carbon Tetrachloride	ND	2.5	1.1	5.00	
Chlorobenzene	940	2.5	0.72	5.00	E
Chloroethane	ND	2.5	1.7	5.00	
Chloroform	ND	2.5	1.1	5.00	
Chloromethane	ND	2.5	1.1	5.00	
2-Chlorotoluene	ND	2.5	1.7	5.00	
4-Chlorotoluene	ND	2.5	1.6	5.00	
Dibromochloromethane	ND	2.5	1.2	5.00	
1,2-Dibromo-3-Chloropropane	ND	25	14	5.00	
1,2-Dibromoethane	ND	2.5	1.7	5.00	
Dibromomethane	ND	2.5	1.7	5.00	
1,2-Dichlorobenzene	ND	2.5	0.85	5.00	
1,3-Dichlorobenzene	ND	2.5	0.85	5.00	
1,4-Dichlorobenzene	ND	2.5	1.6	5.00	
Dichlorodifluoromethane	ND	5.0	1.2	5.00	
1,1-Dichloroethane	ND	2.5	0.95	5.00	
1,2-Dichloroethane	ND	2.5	0.92	5.00	
1,1-Dichloroethene	ND	2.5	1.0	5.00	
c-1,2-Dichloroethene	ND	2.5	1.2	5.00	
t-1,2-Dichloroethene	ND	2.5	1.3	5.00	
1,2-Dichloropropane	ND	2.5	1.2	5.00	
1,3-Dichloropropane	ND	5.0	1.2	5.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 32 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	5.0	2.1	5.00	
1,1-Dichloropropene	ND	2.5	1.4	5.00	
c-1,3-Dichloropropene	ND	2.5	0.92	5.00	
t-1,3-Dichloropropene	ND	2.5	1.7	5.00	
Ethylbenzene	ND	2.5	1.6	5.00	
2-Hexanone	ND	50	13	5.00	
Isopropylbenzene	ND	2.5	2.1	5.00	
p-Isopropyltoluene	ND	2.5	0.68	5.00	
Methylene Chloride	ND	5.0	1.9	5.00	
4-Methyl-2-Pentanone	ND	25	14	5.00	
Naphthalene	ND	5.0	2.0	5.00	
n-Propylbenzene	ND	2.5	1.9	5.00	
Styrene	ND	2.5	1.6	5.00	
1,1,1,2-Tetrachloroethane	ND	2.5	1.2	5.00	
1,1,2,2-Tetrachloroethane	ND	2.5	1.1	5.00	
Tetrachloroethene	ND	2.5	1.1	5.00	
Toluene	ND	2.5	1.3	5.00	
1,2,3-Trichlorobenzene	ND	2.5	1.2	5.00	
1,2,4-Trichlorobenzene	ND	2.5	1.2	5.00	
1,1,1-Trichloroethane	ND	2.5	0.95	5.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	2.5	1.3	5.00	
1,1,2-Trichloroethane	ND	2.5	1.6	5.00	
Trichloroethene	ND	2.5	1.2	5.00	
Trichlorofluoromethane	ND	2.5	1.2	5.00	
1,2,3-Trichloropropane	ND	5.0	1.2	5.00	
1,2,4-Trimethylbenzene	ND	2.5	0.75	5.00	
1,3,5-Trimethylbenzene	ND	2.5	1.7	5.00	
Vinyl Acetate	ND	25	11	5.00	
Vinyl Chloride	ND	2.5	1.4	5.00	
p/m-Xylene	ND	2.5	1.2	5.00	
o-Xylene	ND	2.5	2.0	5.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.5	1.4	5.00	
Tert-Butyl Alcohol (TBA)	ND	50	20	5.00	
Diisopropyl Ether (DIPE)	ND	2.5	1.2	5.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.5	1.1	5.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.5	1.2	5.00	
Ethanol	ND	250	87	5.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 33 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	106	80-128	
Toluene-d8	101	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-13-20140905	**14-09-0448-11-A**	**09/05/14 14:30**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 05:15**	**140910L047**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	900	120	36	250	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 34 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-1300-20140905	**14-09-0448-12-B**	**09/05/14 14:30**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 19:19**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	50	18	5.00	
Benzene	ND	2.5	1.6	5.00	
Bromobenzene	ND	2.5	1.6	5.00	
Bromochloromethane	ND	5.0	1.9	5.00	
Bromodichloromethane	ND	2.5	0.98	5.00	
Bromoform	ND	2.5	1.7	5.00	
Bromomethane	ND	5.0	1.9	5.00	
2-Butanone	ND	25	14	5.00	
n-Butylbenzene	ND	2.5	1.7	5.00	
sec-Butylbenzene	ND	2.5	1.1	5.00	
tert-Butylbenzene	ND	2.5	1.9	5.00	
Carbon Disulfide	ND	5.0	2.2	5.00	
Carbon Tetrachloride	ND	2.5	1.1	5.00	
Chlorobenzene	890	2.5	0.72	5.00	E
Chloroethane	ND	2.5	1.7	5.00	
Chloroform	ND	2.5	1.1	5.00	
Chloromethane	ND	2.5	1.1	5.00	
2-Chlorotoluene	ND	2.5	1.7	5.00	
4-Chlorotoluene	ND	2.5	1.6	5.00	
Dibromochloromethane	ND	2.5	1.2	5.00	
1,2-Dibromo-3-Chloropropane	ND	25	14	5.00	
1,2-Dibromoethane	ND	2.5	1.7	5.00	
Dibromomethane	ND	2.5	1.7	5.00	
1,2-Dichlorobenzene	ND	2.5	0.85	5.00	
1,3-Dichlorobenzene	ND	2.5	0.85	5.00	
1,4-Dichlorobenzene	ND	2.5	1.6	5.00	
Dichlorodifluoromethane	ND	5.0	1.2	5.00	
1,1-Dichloroethane	ND	2.5	0.95	5.00	
1,2-Dichloroethane	ND	2.5	0.92	5.00	
1,1-Dichloroethene	ND	2.5	1.0	5.00	
c-1,2-Dichloroethene	ND	2.5	1.2	5.00	
t-1,2-Dichloroethene	ND	2.5	1.3	5.00	
1,2-Dichloropropane	ND	2.5	1.2	5.00	
1,3-Dichloropropane	ND	5.0	1.2	5.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 35 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	5.0	2.1	5.00	
1,1-Dichloropropene	ND	2.5	1.4	5.00	
c-1,3-Dichloropropene	ND	2.5	0.92	5.00	
t-1,3-Dichloropropene	ND	2.5	1.7	5.00	
Ethylbenzene	ND	2.5	1.6	5.00	
2-Hexanone	ND	50	13	5.00	
Isopropylbenzene	ND	2.5	2.1	5.00	
p-Isopropyltoluene	ND	2.5	0.68	5.00	
Methylene Chloride	ND	5.0	1.9	5.00	
4-Methyl-2-Pentanone	ND	25	14	5.00	
Naphthalene	ND	5.0	2.0	5.00	
n-Propylbenzene	ND	2.5	1.9	5.00	
Styrene	ND	2.5	1.6	5.00	
1,1,1,2-Tetrachloroethane	ND	2.5	1.2	5.00	
1,1,2,2-Tetrachloroethane	ND	2.5	1.1	5.00	
Tetrachloroethene	ND	2.5	1.1	5.00	
Toluene	ND	2.5	1.3	5.00	
1,2,3-Trichlorobenzene	ND	2.5	1.2	5.00	
1,2,4-Trichlorobenzene	ND	2.5	1.2	5.00	
1,1,1-Trichloroethane	ND	2.5	0.95	5.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	2.5	1.3	5.00	
1,1,2-Trichloroethane	ND	2.5	1.6	5.00	
Trichloroethene	ND	2.5	1.2	5.00	
Trichlorofluoromethane	ND	2.5	1.2	5.00	
1,2,3-Trichloropropane	ND	5.0	1.2	5.00	
1,2,4-Trimethylbenzene	ND	2.5	0.75	5.00	
1,3,5-Trimethylbenzene	ND	2.5	1.7	5.00	
Vinyl Acetate	ND	25	11	5.00	
Vinyl Chloride	ND	2.5	1.4	5.00	
p/m-Xylene	ND	2.5	1.2	5.00	
o-Xylene	ND	2.5	2.0	5.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.5	1.4	5.00	
Tert-Butyl Alcohol (TBA)	ND	50	20	5.00	
Diisopropyl Ether (DIPE)	ND	2.5	1.2	5.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.5	1.1	5.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.5	1.2	5.00	
Ethanol	ND	250	87	5.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 36 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	68-120	
Dibromofluoromethane	106	80-127	
1,2-Dichloroethane-d4	117	80-128	
Toluene-d8	97	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-1300-20140905	**14-09-0448-12-A**	**09/05/14 14:30**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 05:44**	**140910L047**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	930	120	36	250	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 37 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-16-20140905	**14-09-0448-13-B**	**09/05/14 15:21**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 19:48**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	7.1	2.00	
Benzene	ND	1.0	0.65	2.00	
Bromobenzene	ND	1.0	0.66	2.00	
Bromochloromethane	ND	2.0	0.76	2.00	
Bromodichloromethane	ND	1.0	0.39	2.00	
Bromoform	ND	1.0	0.67	2.00	
Bromomethane	ND	2.0	0.76	2.00	
2-Butanone	ND	10	5.8	2.00	
n-Butylbenzene	ND	1.0	0.68	2.00	
sec-Butylbenzene	ND	1.0	0.45	2.00	
tert-Butylbenzene	ND	1.0	0.76	2.00	
Carbon Disulfide	ND	2.0	0.88	2.00	
Carbon Tetrachloride	ND	1.0	0.43	2.00	
Chlorobenzene	290	1.0	0.29	2.00	E
Chloroethane	ND	1.0	0.68	2.00	
Chloroform	0.73	1.0	0.43	2.00	J
Chloromethane	ND	1.0	0.43	2.00	
2-Chlorotoluene	ND	1.0	0.68	2.00	
4-Chlorotoluene	ND	1.0	0.66	2.00	
Dibromochloromethane	ND	1.0	0.47	2.00	
1,2-Dibromo-3-Chloropropane	ND	10	5.8	2.00	
1,2-Dibromoethane	ND	1.0	0.67	2.00	
Dibromomethane	ND	1.0	0.69	2.00	
1,2-Dichlorobenzene	ND	1.0	0.34	2.00	
1,3-Dichlorobenzene	ND	1.0	0.34	2.00	
1,4-Dichlorobenzene	0.79	1.0	0.62	2.00	J
Dichlorodifluoromethane	ND	2.0	0.47	2.00	
1,1-Dichloroethane	ND	1.0	0.38	2.00	
1,2-Dichloroethane	ND	1.0	0.37	2.00	
1,1-Dichloroethene	ND	1.0	0.40	2.00	
c-1,2-Dichloroethene	ND	1.0	0.49	2.00	
t-1,2-Dichloroethene	ND	1.0	0.52	2.00	
1,2-Dichloropropane	ND	1.0	0.48	2.00	
1,3-Dichloropropane	ND	2.0	0.48	2.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 38 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	2.0	0.85	2.00	
1,1-Dichloropropene	ND	1.0	0.56	2.00	
c-1,3-Dichloropropene	ND	1.0	0.37	2.00	
t-1,3-Dichloropropene	ND	1.0	0.70	2.00	
Ethylbenzene	ND	1.0	0.63	2.00	
2-Hexanone	ND	20	5.2	2.00	
Isopropylbenzene	ND	1.0	0.83	2.00	
p-Isopropyltoluene	ND	1.0	0.27	2.00	
Methylene Chloride	ND	2.0	0.77	2.00	
4-Methyl-2-Pentanone	ND	10	5.4	2.00	
Naphthalene	ND	2.0	0.81	2.00	
n-Propylbenzene	ND	1.0	0.76	2.00	
Styrene	ND	1.0	0.65	2.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.47	2.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.44	2.00	
Tetrachloroethene	ND	1.0	0.43	2.00	
Toluene	ND	1.0	0.53	2.00	
1,2,3-Trichlorobenzene	ND	1.0	0.50	2.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	2.00	
1,1,1-Trichloroethane	ND	1.0	0.38	2.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.0	0.51	2.00	
1,1,2-Trichloroethane	ND	1.0	0.65	2.00	
Trichloroethene	ND	1.0	0.46	2.00	
Trichlorofluoromethane	ND	1.0	0.50	2.00	
1,2,3-Trichloropropane	ND	2.0	0.50	2.00	
1,2,4-Trimethylbenzene	ND	1.0	0.30	2.00	
1,3,5-Trimethylbenzene	ND	1.0	0.66	2.00	
Vinyl Acetate	ND	10	4.5	2.00	
Vinyl Chloride	ND	1.0	0.54	2.00	
p/m-Xylene	ND	1.0	0.47	2.00	
o-Xylene	ND	1.0	0.78	2.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.58	2.00	
Tert-Butyl Alcohol (TBA)	ND	20	8.2	2.00	
Diisopropyl Ether (DIPE)	ND	1.0	0.47	2.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	0.43	2.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	0.47	2.00	
Ethanol	ND	100	35	2.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 39 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	100	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-16-20140905	**14-09-0448-13-A**	**09/05/14 15:21**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 06:12**	**140910L047**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	320	100	29	200	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	108	80-128	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 40 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SWL0033-20140905	**14-09-0448-14-B**	**09/05/14 11:30**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 20:16**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	400	140	40.0	
Benzene	33	20	13	40.0	
Bromobenzene	ND	20	13	40.0	
Bromochloromethane	ND	40	15	40.0	
Bromodichloromethane	ND	20	7.8	40.0	
Bromoform	ND	20	13	40.0	
Bromomethane	ND	40	15	40.0	
2-Butanone	ND	200	120	40.0	
n-Butylbenzene	ND	20	14	40.0	
sec-Butylbenzene	ND	20	9.1	40.0	
tert-Butylbenzene	ND	20	15	40.0	
Carbon Disulfide	ND	40	18	40.0	
Carbon Tetrachloride	ND	20	8.6	40.0	
Chlorobenzene	6500	20	5.8	40.0	E
Chloroethane	ND	20	14	40.0	
Chloroform	ND	20	8.6	40.0	
Chloromethane	ND	20	8.6	40.0	
2-Chlorotoluene	ND	20	14	40.0	
4-Chlorotoluene	ND	20	13	40.0	
Dibromochloromethane	ND	20	9.4	40.0	
1,2-Dibromo-3-Chloropropane	ND	200	120	40.0	
1,2-Dibromoethane	ND	20	13	40.0	
Dibromomethane	ND	20	14	40.0	
1,2-Dichlorobenzene	ND	20	6.8	40.0	
1,3-Dichlorobenzene	ND	20	6.8	40.0	
1,4-Dichlorobenzene	17	20	12	40.0	J
Dichlorodifluoromethane	ND	40	9.4	40.0	
1,1-Dichloroethane	ND	20	7.6	40.0	
1,2-Dichloroethane	8.3	20	7.4	40.0	J
1,1-Dichloroethene	ND	20	8.0	40.0	
c-1,2-Dichloroethene	ND	20	9.8	40.0	
t-1,2-Dichloroethene	ND	20	10	40.0	
1,2-Dichloropropane	ND	20	9.6	40.0	
1,3-Dichloropropane	ND	40	9.6	40.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 41 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	40	17	40.0	
1,1-Dichloropropene	ND	20	11	40.0	
c-1,3-Dichloropropene	ND	20	7.4	40.0	
t-1,3-Dichloropropene	ND	20	14	40.0	
Ethylbenzene	ND	20	13	40.0	
2-Hexanone	ND	400	100	40.0	
Isopropylbenzene	ND	20	17	40.0	
p-Isopropyltoluene	ND	20	5.4	40.0	
Methylene Chloride	ND	40	15	40.0	
4-Methyl-2-Pentanone	ND	200	110	40.0	
Naphthalene	ND	40	16	40.0	
n-Propylbenzene	ND	20	15	40.0	
Styrene	ND	20	13	40.0	
1,1,1,2-Tetrachloroethane	ND	20	9.4	40.0	
1,1,2,2-Tetrachloroethane	ND	20	8.8	40.0	
Tetrachloroethene	ND	20	8.6	40.0	
Toluene	ND	20	11	40.0	
1,2,3-Trichlorobenzene	ND	20	10	40.0	
1,2,4-Trichlorobenzene	ND	20	10	40.0	
1,1,1-Trichloroethane	ND	20	7.6	40.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	20	10	40.0	
1,1,2-Trichloroethane	ND	20	13	40.0	
Trichloroethene	ND	20	9.2	40.0	
Trichlorofluoromethane	ND	20	10	40.0	
1,2,3-Trichloropropane	ND	40	10	40.0	
1,2,4-Trimethylbenzene	ND	20	6.0	40.0	
1,3,5-Trimethylbenzene	ND	20	13	40.0	
Vinyl Acetate	ND	200	90	40.0	
Vinyl Chloride	ND	20	11	40.0	
p/m-Xylene	ND	20	9.4	40.0	
o-Xylene	ND	20	16	40.0	
Methyl-t-Butyl Ether (MTBE)	ND	20	12	40.0	
Tert-Butyl Alcohol (TBA)	ND	400	160	40.0	
Diisopropyl Ether (DIPE)	ND	20	9.4	40.0	
Ethyl-t-Butyl Ether (ETBE)	ND	20	8.6	40.0	
Tert-Amyl-Methyl Ether (TAME)	ND	20	9.4	40.0	
Ethanol	ND	2000	690	40.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 42 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	68-120	
Dibromofluoromethane	105	80-127	
1,2-Dichloroethane-d4	114	80-128	
Toluene-d8	100	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SWL0033-20140905	**14-09-0448-14-A**	**09/05/14 11:30**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 06:41**	**140910L047**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	6300	120	36	250	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	109	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 43 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SWL0034-20140905	**14-09-0448-15-B**	**09/05/14 14:16**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 21:13**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	69	0.50	0.14	1.00	E
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	0.52	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	0.28	0.50	0.18	1.00	J
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 44 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	1.4	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 45 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	112	80-128	
Toluene-d8	99	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SWL0034-20140905	**14-09-0448-15-B**	**09/05/14 14:16**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 20:45**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	67	2.5	0.72	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 46 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-24-20140905	**14-09-0448-16-B**	**09/05/14 14:05**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 21:42**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	100	35	10.0	
Benzene	38	5.0	3.2	10.0	
Bromobenzene	ND	5.0	3.3	10.0	
Bromochloromethane	ND	10	3.8	10.0	
Bromodichloromethane	ND	5.0	2.0	10.0	
Bromoform	ND	5.0	3.4	10.0	
Bromomethane	ND	10	3.8	10.0	
2-Butanone	ND	50	29	10.0	
n-Butylbenzene	ND	5.0	3.4	10.0	
sec-Butylbenzene	ND	5.0	2.3	10.0	
tert-Butylbenzene	ND	5.0	3.8	10.0	
Carbon Disulfide	ND	10	4.4	10.0	
Carbon Tetrachloride	ND	5.0	2.2	10.0	
Chlorobenzene	2000	5.0	1.4	10.0	E
Chloroethane	ND	5.0	3.4	10.0	
Chloroform	ND	5.0	2.2	10.0	
Chloromethane	ND	5.0	2.2	10.0	
2-Chlorotoluene	ND	5.0	3.4	10.0	
4-Chlorotoluene	ND	5.0	3.3	10.0	
Dibromochloromethane	ND	5.0	2.4	10.0	
1,2-Dibromo-3-Chloropropane	ND	50	29	10.0	
1,2-Dibromoethane	ND	5.0	3.4	10.0	
Dibromomethane	ND	5.0	3.4	10.0	
1,2-Dichlorobenzene	ND	5.0	1.7	10.0	
1,3-Dichlorobenzene	ND	5.0	1.7	10.0	
1,4-Dichlorobenzene	4.4	5.0	3.1	10.0	J
Dichlorodifluoromethane	ND	10	2.4	10.0	
1,1-Dichloroethane	ND	5.0	1.9	10.0	
1,2-Dichloroethane	320	5.0	1.8	10.0	
1,1-Dichloroethene	ND	5.0	2.0	10.0	
c-1,2-Dichloroethene	ND	5.0	2.4	10.0	
t-1,2-Dichloroethene	ND	5.0	2.6	10.0	
1,2-Dichloropropane	10	5.0	2.4	10.0	
1,3-Dichloropropane	ND	10	2.4	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 47 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	10	4.2	10.0	
1,1-Dichloropropene	ND	5.0	2.8	10.0	
c-1,3-Dichloropropene	ND	5.0	1.8	10.0	
t-1,3-Dichloropropene	ND	5.0	3.5	10.0	
Ethylbenzene	32	5.0	3.2	10.0	
2-Hexanone	ND	100	26	10.0	
Isopropylbenzene	5.7	5.0	4.2	10.0	
p-Isopropyltoluene	ND	5.0	1.4	10.0	
Methylene Chloride	ND	10	3.8	10.0	
4-Methyl-2-Pentanone	ND	50	27	10.0	
Naphthalene	ND	10	4.1	10.0	
n-Propylbenzene	ND	5.0	3.8	10.0	
Styrene	ND	5.0	3.2	10.0	
1,1,1,2-Tetrachloroethane	ND	5.0	2.4	10.0	
1,1,2,2-Tetrachloroethane	ND	5.0	2.2	10.0	
Tetrachloroethene	ND	5.0	2.2	10.0	
Toluene	ND	5.0	2.6	10.0	
1,2,3-Trichlorobenzene	ND	5.0	2.5	10.0	
1,2,4-Trichlorobenzene	ND	5.0	2.5	10.0	
1,1,1-Trichloroethane	ND	5.0	1.9	10.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	5.0	2.6	10.0	
1,1,2-Trichloroethane	ND	5.0	3.2	10.0	
Trichloroethene	ND	5.0	2.3	10.0	
Trichlorofluoromethane	ND	5.0	2.5	10.0	
1,2,3-Trichloropropane	ND	10	2.5	10.0	
1,2,4-Trimethylbenzene	3.8	5.0	1.5	10.0	J
1,3,5-Trimethylbenzene	ND	5.0	3.3	10.0	
Vinyl Acetate	ND	50	22	10.0	
Vinyl Chloride	ND	5.0	2.7	10.0	
p/m-Xylene	ND	5.0	2.4	10.0	
o-Xylene	ND	5.0	3.9	10.0	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	2.9	10.0	
Tert-Butyl Alcohol (TBA)	ND	100	41	10.0	
Diisopropyl Ether (DIPE)	ND	5.0	2.4	10.0	
Ethyl-t-Butyl Ether (ETBE)	ND	5.0	2.2	10.0	
Tert-Amyl-Methyl Ether (TAME)	ND	5.0	2.4	10.0	
Ethanol	ND	500	170	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 48 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	113	80-128	
Toluene-d8	98	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-24-20140905	**14-09-0448-16-B**	**09/05/14 14:05**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 22:11**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	2200	50	14	100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	111	80-128	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 49 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-67**	**N/A**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 00:01**	**140910L047**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 50 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 51 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 52 of 54

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-66**	**N/A**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 12:09**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 53 of 54

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/05/14
3995 Via Oro Ave	Work Order:	14-09-0448
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 54 of 54

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
G-23-20140905	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 14:27**	**140908S01**
G-23-20140905	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 18:25**	**140908S01**
G-23-20140905	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 18:45**	**140908S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	84.24	50.00	134.9	101	134.1	100	70-130	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0554-4	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 15:43**	**140909S01**
14-09-0554-4	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 16:22**	**140909S01**
14-09-0554-4	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 16:41**	**140909S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	25.00	26.46	106	26.17	105	70-130	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
G-23-20140905	**Sample**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 01:27**	**140910S033**
G-23-20140905	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 08:06**	**140910S033**
G-23-20140905	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 08:35**	**140910S033**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	10.34	103	9.411	94	80-120	9	0-20	
Benzene	ND	10.00	10.48	105	10.44	104	76-124	0	0-20	
Bromobenzene	ND	10.00	10.12	101	10.37	104	80-120	3	0-20	
Bromochloromethane	ND	10.00	9.269	93	9.704	97	80-120	5	0-20	
Bromodichloromethane	ND	10.00	9.528	95	9.896	99	80-120	4	0-20	
Bromoform	ND	10.00	7.654	77	8.227	82	80-120	7	0-20	3
Bromomethane	ND	10.00	10.46	105	10.47	105	80-120	0	0-20	
2-Butanone	ND	10.00	8.365	84	9.166	92	80-120	9	0-20	
n-Butylbenzene	ND	10.00	9.133	91	9.682	97	80-120	6	0-25	
sec-Butylbenzene	ND	10.00	10.13	101	10.27	103	80-120	1	0-20	
tert-Butylbenzene	ND	10.00	10.55	106	10.51	105	80-120	0	0-20	
Carbon Disulfide	ND	10.00	9.201	92	9.556	96	80-120	4	0-20	
Carbon Tetrachloride	ND	10.00	8.340	83	8.645	86	74-134	4	0-20	
Chlorobenzene	ND	10.00	10.60	106	10.74	107	80-120	1	0-20	
Chloroethane	ND	10.00	9.750	98	10.67	107	80-120	9	0-20	
Chloroform	ND	10.00	9.888	99	9.853	99	80-120	0	0-20	
Chloromethane	ND	10.00	10.42	104	11.35	113	80-120	8	0-20	
2-Chlorotoluene	ND	10.00	10.80	108	11.07	111	80-120	2	0-20	
4-Chlorotoluene	ND	10.00	10.11	101	10.25	102	80-120	1	0-20	
Dibromochloromethane	ND	10.00	8.926	89	9.324	93	80-120	4	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	7.462	75	8.579	86	80-120	14	0-20	3
1,2-Dibromoethane	ND	10.00	10.05	101	9.967	100	80-120	1	0-20	
Dibromomethane	ND	10.00	10.38	104	9.815	98	80-120	6	0-20	
1,2-Dichlorobenzene	ND	10.00	10.33	103	10.57	106	80-120	2	0-20	
1,3-Dichlorobenzene	ND	10.00	10.14	101	10.33	103	80-120	2	0-20	
1,4-Dichlorobenzene	ND	10.00	9.672	97	9.952	100	80-120	3	0-20	
Dichlorodifluoromethane	ND	10.00	9.670	97	10.67	107	80-120	10	0-20	
1,1-Dichloroethane	ND	10.00	9.759	98	9.855	99	80-120	1	0-20	
1,2-Dichloroethane	ND	10.00	10.31	103	10.46	105	80-120	1	0-20	
1,1-Dichloroethene	ND	10.00	9.642	96	10.11	101	73-127	5	0-20	
c-1,2-Dichloroethene	ND	10.00	10.21	102	10.13	101	80-120	1	0-20	
t-1,2-Dichloroethene	ND	10.00	9.970	100	10.40	104	80-120	4	0-20	
1,2-Dichloropropane	ND	10.00	9.678	97	9.641	96	80-120	0	0-25	
1,3-Dichloropropane	ND	10.00	10.22	102	10.16	102	80-120	1	0-20	
2,2-Dichloropropane	ND	10.00	6.791	68	6.841	68	80-120	1	0-20	3

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 8

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	9.640	96	9.873	99	80-120	2	0-20	
c-1,3-Dichloropropene	ND	10.00	8.924	89	8.951	90	80-120	0	0-20	
t-1,3-Dichloropropene	ND	10.00	8.135	81	8.136	81	80-120	0	0-20	
Ethylbenzene	ND	10.00	10.21	102	10.55	105	78-126	3	0-20	
2-Hexanone	ND	10.00	8.893	89	9.232	92	80-120	4	0-20	
Isopropylbenzene	ND	10.00	10.31	103	10.72	107	80-120	4	0-20	
p-Isopropyltoluene	ND	10.00	8.854	89	9.204	92	80-120	4	0-20	
Methylene Chloride	ND	10.00	10.63	106	10.69	107	80-120	1	0-20	
4-Methyl-2-Pentanone	ND	10.00	9.079	91	9.237	92	80-120	2	0-20	
Naphthalene	ND	10.00	10.33	103	10.25	103	80-120	1	0-20	
n-Propylbenzene	ND	10.00	10.17	102	10.50	105	80-120	3	0-20	
Styrene	ND	10.00	10.24	102	10.43	104	80-120	2	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	8.876	89	9.395	94	80-120	6	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	9.835	98	9.778	98	80-120	1	0-20	
Tetrachloroethene	ND	10.00	8.258	83	8.299	83	80-120	0	0-20	
Toluene	ND	10.00	10.45	105	10.28	103	80-120	2	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.18	102	10.29	103	80-120	1	0-20	
1,2,4-Trichlorobenzene	ND	10.00	9.696	97	9.837	98	80-120	1	0-20	
1,1,1-Trichloroethane	ND	10.00	9.024	90	9.354	94	80-120	4	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	9.463	95	9.446	94	80-120	0	0-20	
1,1,2-Trichloroethane	ND	10.00	10.28	103	10.22	102	80-120	1	0-20	
Trichloroethene	ND	10.00	9.765	98	9.912	99	77-120	2	0-20	
Trichlorofluoromethane	ND	10.00	9.406	94	9.612	96	80-120	2	0-20	
1,2,3-Trichloropropane	ND	10.00	9.188	92	9.193	92	80-120	0	0-20	
1,2,4-Trimethylbenzene	ND	10.00	9.982	100	10.18	102	80-120	2	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.34	103	10.79	108	80-120	4	0-20	
Vinyl Acetate	ND	10.00	8.578	86	8.596	86	80-120	0	0-20	
Vinyl Chloride	ND	10.00	10.27	103	11.02	110	72-126	7	0-20	
p/m-Xylene	ND	20.00	20.79	104	21.59	108	80-120	4	0-20	
o-Xylene	ND	10.00	10.56	106	10.70	107	80-120	1	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	8.874	89	8.966	90	67-121	1	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	81.01	162	53.46	107	36-162	41	0-30	4
Diisopropyl Ether (DIPE)	ND	10.00	10.09	101	10.08	101	60-138	0	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.144	91	9.224	92	69-123	1	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.017	90	8.983	90	65-120	0	0-20	
Ethanol	ND	100.0	128.8	129	126.6	127	30-180	2	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
G-23-20140905	**Sample**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 01:27**	**140910S033**
G-23-20140905	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 08:06**	**140910S033**
G-23-20140905	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/11/14 08:35**	**140910S033**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.12	101	10.15	101	68-120	
Dibromofluoromethane	10.00	9.613	96	9.986	100	80-127	
1,2-Dichloroethane-d4	10.00	9.864	99	10.02	100	80-128	
Toluene-d8	10.00	10.14	101	10.01	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0556-3	**Sample**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 14:03**	**140911S002**
14-09-0556-3	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 15:29**	**140911S002**
14-09-0556-3	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 15:58**	**140911S002**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	8.153	82	8.704	87	80-120	7	0-20	
Benzene	ND	10.00	10.53	105	10.16	102	76-124	4	0-20	
Bromobenzene	ND	10.00	10.32	103	10.45	104	80-120	1	0-20	
Bromochloromethane	ND	10.00	10.06	101	9.602	96	80-120	5	0-20	
Bromodichloromethane	ND	10.00	10.02	100	9.838	98	80-120	2	0-20	
Bromoform	ND	10.00	8.310	83	8.492	85	80-120	2	0-20	
Bromomethane	ND	10.00	9.614	96	9.333	93	80-120	3	0-20	
2-Butanone	ND	10.00	9.700	97	9.834	98	80-120	1	0-20	
n-Butylbenzene	ND	10.00	10.58	106	10.49	105	80-120	1	0-25	
sec-Butylbenzene	ND	10.00	10.59	106	10.42	104	80-120	2	0-20	
tert-Butylbenzene	ND	10.00	10.71	107	10.38	104	80-120	3	0-20	
Carbon Disulfide	ND	10.00	9.126	91	8.916	89	80-120	2	0-20	
Carbon Tetrachloride	ND	10.00	8.814	88	8.894	89	74-134	1	0-20	
Chlorobenzene	ND	10.00	10.84	108	10.70	107	80-120	1	0-20	
Chloroethane	ND	10.00	9.691	97	9.914	99	80-120	2	0-20	
Chloroform	ND	10.00	9.949	99	9.650	96	80-120	3	0-20	
Chloromethane	ND	10.00	9.912	99	10.39	104	80-120	5	0-20	
2-Chlorotoluene	ND	10.00	11.26	113	11.16	112	80-120	1	0-20	
4-Chlorotoluene	ND	10.00	10.56	106	10.25	103	80-120	3	0-20	
Dibromochloromethane	ND	10.00	9.186	92	9.662	97	80-120	5	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	9.243	92	9.314	93	80-120	1	0-20	
1,2-Dibromoethane	ND	10.00	10.29	103	10.25	103	80-120	0	0-20	
Dibromomethane	ND	10.00	10.32	103	10.43	104	80-120	1	0-20	
1,2-Dichlorobenzene	ND	10.00	10.88	109	10.76	108	80-120	1	0-20	
1,3-Dichlorobenzene	ND	10.00	10.56	106	10.48	105	80-120	1	0-20	
1,4-Dichlorobenzene	ND	10.00	10.38	104	10.08	101	80-120	3	0-20	
Dichlorodifluoromethane	ND	10.00	10.73	107	11.16	112	80-120	4	0-20	
1,1-Dichloroethane	ND	10.00	9.420	94	9.448	94	80-120	0	0-20	
1,2-Dichloroethane	ND	10.00	10.85	109	10.42	104	80-120	4	0-20	
1,1-Dichloroethene	ND	10.00	9.734	97	9.489	95	73-127	3	0-20	
c-1,2-Dichloroethene	ND	10.00	10.96	110	10.89	109	80-120	1	0-20	
t-1,2-Dichloroethene	ND	10.00	10.01	100	9.661	97	80-120	4	0-20	
1,2-Dichloropropane	ND	10.00	10.06	101	9.660	97	80-120	4	0-25	
1,3-Dichloropropane	ND	10.00	10.44	104	10.71	107	80-120	3	0-20	
2,2-Dichloropropane	ND	10.00	9.293	93	8.983	90	80-120	3	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 8

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	10.31	103	10.07	101	80-120	2	0-20	
c-1,3-Dichloropropene	ND	10.00	9.850	98	9.543	95	80-120	3	0-20	
t-1,3-Dichloropropene	ND	10.00	9.150	92	9.142	91	80-120	0	0-20	
Ethylbenzene	ND	10.00	10.48	105	10.35	104	78-126	1	0-20	
2-Hexanone	ND	10.00	10.36	104	9.896	99	80-120	5	0-20	
Isopropylbenzene	ND	10.00	10.78	108	10.64	106	80-120	1	0-20	
p-Isopropyltoluene	ND	10.00	9.506	95	9.263	93	80-120	3	0-20	
Methylene Chloride	ND	10.00	10.39	104	9.788	98	80-120	6	0-20	
4-Methyl-2-Pentanone	ND	10.00	10.16	102	10.37	104	80-120	2	0-20	
Naphthalene	ND	10.00	11.64	116	11.70	117	80-120	0	0-20	
n-Propylbenzene	ND	10.00	10.99	110	10.80	108	80-120	2	0-20	
Styrene	ND	10.00	10.65	107	10.55	106	80-120	1	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	9.416	94	9.625	96	80-120	2	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.41	104	10.17	102	80-120	2	0-20	
Tetrachloroethene	ND	10.00	8.570	86	8.534	85	80-120	0	0-20	
Toluene	ND	10.00	10.34	103	9.807	98	80-120	5	0-20	
1,2,3-Trichlorobenzene	ND	10.00	11.26	113	11.45	115	80-120	2	0-20	
1,2,4-Trichlorobenzene	ND	10.00	10.93	109	10.98	110	80-120	0	0-20	
1,1,1-Trichloroethane	ND	10.00	9.260	93	9.350	93	80-120	1	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	10.03	100	9.806	98	80-120	2	0-20	
1,1,2-Trichloroethane	ND	10.00	10.41	104	10.40	104	80-120	0	0-20	
Trichloroethene	ND	10.00	9.930	99	9.738	97	77-120	2	0-20	
Trichlorofluoromethane	ND	10.00	10.11	101	9.907	99	80-120	2	0-20	
1,2,3-Trichloropropane	ND	10.00	9.924	99	9.683	97	80-120	2	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.28	103	10.08	101	80-120	2	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.85	109	10.68	107	80-120	2	0-20	
Vinyl Acetate	ND	10.00	10.33	103	10.18	102	80-120	1	0-20	
Vinyl Chloride	ND	10.00	10.21	102	10.71	107	72-126	5	0-20	
p/m-Xylene	ND	20.00	21.52	108	20.96	105	80-120	3	0-20	
o-Xylene	ND	10.00	10.75	107	10.64	106	80-120	1	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.052	91	9.083	91	67-121	0	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	51.93	104	50.94	102	36-162	2	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	9.952	100	9.807	98	60-138	1	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.906	99	9.659	97	69-123	3	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.502	95	9.400	94	65-120	1	0-20	
Ethanol	ND	100.0	118.6	119	115.2	115	30-180	3	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0556-3	**Sample**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 14:03**	**140911S002**
14-09-0556-3	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 15:29**	**140911S002**
14-09-0556-3	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 15:58**	**140911S002**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.51	105	10.34	103	68-120	
Dibromofluoromethane	10.00	9.957	100	10.00	100	80-127	
1,2-Dichloroethane-d4	10.00	10.49	105	10.58	106	80-128	
Toluene-d8	10.00	10.03	100	9.893	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-33	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 12:26**	**140908L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	22.87	91	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-080-34	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 22:57**	**140908L02**
099-15-080-34	**LCSD**	**Aqueous**	**IC 8**	**N/A**	**09/08/14 23:16**	**140908L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	23.74	95	24.15	97	80-120	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-32	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 12:48**	**140909L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	23.95	96	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-67	**LCS**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 23:03**	**140910L047**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	9.712	97	80-120	73-127	
Benzene	10.00	10.04	100	80-120	73-127	
Bromobenzene	10.00	9.970	100	80-120	73-127	
Bromochloromethane	10.00	9.686	97	80-120	73-127	
Bromodichloromethane	10.00	9.678	97	80-120	73-127	
Bromoform	10.00	8.073	81	80-120	73-127	
Bromomethane	10.00	9.881	99	80-120	73-127	
2-Butanone	10.00	10.86	109	80-120	73-127	
n-Butylbenzene	10.00	9.715	97	77-123	69-131	
sec-Butylbenzene	10.00	10.00	100	80-120	73-127	
tert-Butylbenzene	10.00	10.12	101	80-120	73-127	
Carbon Disulfide	10.00	8.634	86	80-120	73-127	
Carbon Tetrachloride	10.00	8.863	89	74-134	64-144	
Chlorobenzene	10.00	10.37	104	80-120	73-127	
Chloroethane	10.00	9.784	98	80-120	73-127	
Chloroform	10.00	9.712	97	80-120	73-127	
Chloromethane	10.00	10.44	104	80-120	73-127	
2-Chlorotoluene	10.00	10.60	106	80-120	73-127	
4-Chlorotoluene	10.00	9.889	99	80-120	73-127	
Dibromochloromethane	10.00	9.419	94	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	8.548	85	80-120	73-127	
1,2-Dibromoethane	10.00	9.945	99	79-121	72-128	
Dibromomethane	10.00	9.801	98	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.25	103	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.11	101	80-120	73-127	
1,4-Dichlorobenzene	10.00	9.808	98	80-120	73-127	
Dichlorodifluoromethane	10.00	10.35	104	80-120	73-127	
1,1-Dichloroethane	10.00	9.551	96	80-120	73-127	
1,2-Dichloroethane	10.00	10.21	102	80-120	73-127	
1,1-Dichloroethene	10.00	9.376	94	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.96	110	80-120	73-127	
t-1,2-Dichloroethene	10.00	9.707	97	80-120	73-127	
1,2-Dichloropropane	10.00	9.350	93	79-115	73-121	
1,3-Dichloropropane	10.00	9.972	100	80-120	73-127	
2,2-Dichloropropane	10.00	8.440	84	80-120	73-127	
1,1-Dichloropropene	10.00	9.640	96	80-120	73-127	
c-1,3-Dichloropropene	10.00	9.293	93	80-120	73-127	
t-1,3-Dichloropropene	10.00	8.646	86	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 9

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	9.917	99	80-120	73-127	
2-Hexanone	10.00	9.243	92	80-120	73-127	
Isopropylbenzene	10.00	10.23	102	80-120	73-127	
p-Isopropyltoluene	10.00	8.990	90	80-120	73-127	
Methylene Chloride	10.00	10.16	102	80-120	73-127	
4-Methyl-2-Pentanone	10.00	10.07	101	80-120	73-127	
Naphthalene	10.00	10.83	108	80-120	73-127	
n-Propylbenzene	10.00	10.10	101	80-120	73-127	
Styrene	10.00	10.11	101	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	9.143	91	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	9.866	99	80-120	73-127	
Tetrachloroethene	10.00	9.029	90	80-120	73-127	
Toluene	10.00	9.699	97	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	10.53	105	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	10.07	101	80-120	73-127	
1,1,1-Trichloroethane	10.00	9.371	94	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	9.307	93	80-120	73-127	
1,1,2-Trichloroethane	10.00	9.756	98	80-120	73-127	
Trichloroethene	10.00	9.563	96	79-127	71-135	
Trichlorofluoromethane	10.00	9.789	98	80-120	73-127	
1,2,3-Trichloropropane	10.00	8.986	90	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	9.804	98	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.34	103	80-120	73-127	
Vinyl Acetate	10.00	10.27	103	80-120	73-127	
Vinyl Chloride	10.00	10.32	103	72-132	62-142	
p/m-Xylene	20.00	20.74	104	80-120	73-127	
o-Xylene	10.00	10.45	104	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	9.242	92	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	50.02	100	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	9.865	99	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.335	93	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	9.174	92	70-120	62-128	
Ethanol	100.0	128.5	128	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 0
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 6 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-67	**LCS**	**Aqueous**	**GC/MS L**	**09/10/14**	**09/10/14 23:03**	**140910L047**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.24	102	68-120	
Dibromofluoromethane	10.00	9.742	97	80-127	
1,2-Dichloroethane-d4	10.00	10.49	105	80-128	
Toluene-d8	10.00	9.969	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-66	**LCS**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 11:05**	**140911L002**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	18.79	188	80-120	73-127	X
Benzene	10.00	9.742	97	80-120	73-127	
Bromobenzene	10.00	9.761	98	80-120	73-127	
Bromochloromethane	10.00	9.478	95	80-120	73-127	
Bromodichloromethane	10.00	9.609	96	80-120	73-127	
Bromoform	10.00	7.950	80	80-120	73-127	
Bromomethane	10.00	10.72	107	80-120	73-127	
2-Butanone	10.00	14.03	140	80-120	73-127	X
n-Butylbenzene	10.00	9.941	99	77-123	69-131	
sec-Butylbenzene	10.00	10.02	100	80-120	73-127	
tert-Butylbenzene	10.00	9.900	99	80-120	73-127	
Carbon Disulfide	10.00	8.372	84	80-120	73-127	
Carbon Tetrachloride	10.00	8.945	89	74-134	64-144	
Chlorobenzene	10.00	10.21	102	80-120	73-127	
Chloroethane	10.00	8.999	90	80-120	73-127	
Chloroform	10.00	9.346	93	80-120	73-127	
Chloromethane	10.00	10.89	109	80-120	73-127	
2-Chlorotoluene	10.00	10.49	105	80-120	73-127	
4-Chlorotoluene	10.00	9.811	98	80-120	73-127	
Dibromochloromethane	10.00	8.998	90	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	8.740	87	80-120	73-127	
1,2-Dibromoethane	10.00	9.988	100	79-121	72-128	
Dibromomethane	10.00	9.885	99	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.17	102	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.09	101	80-120	73-127	
1,4-Dichlorobenzene	10.00	9.708	97	80-120	73-127	
Dichlorodifluoromethane	10.00	10.81	108	80-120	73-127	
1,1-Dichloroethane	10.00	9.224	92	80-120	73-127	
1,2-Dichloroethane	10.00	10.12	101	80-120	73-127	
1,1-Dichloroethene	10.00	9.491	95	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.65	106	80-120	73-127	
t-1,2-Dichloroethene	10.00	9.572	96	80-120	73-127	
1,2-Dichloropropane	10.00	9.229	92	79-115	73-121	
1,3-Dichloropropane	10.00	9.665	97	80-120	73-127	
2,2-Dichloropropane	10.00	9.732	97	80-120	73-127	
1,1-Dichloropropene	10.00	9.531	95	80-120	73-127	
c-1,3-Dichloropropene	10.00	9.192	92	80-120	73-127	
t-1,3-Dichloropropene	10.00	8.835	88	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 9

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	9.893	99	80-120	73-127	
2-Hexanone	10.00	12.78	128	80-120	73-127	X
Isopropylbenzene	10.00	10.16	102	80-120	73-127	
p-Isopropyltoluene	10.00	9.026	90	80-120	73-127	
Methylene Chloride	10.00	9.663	97	80-120	73-127	
4-Methyl-2-Pentanone	10.00	8.834	88	80-120	73-127	
Naphthalene	10.00	10.46	105	80-120	73-127	
n-Propylbenzene	10.00	10.21	102	80-120	73-127	
Styrene	10.00	10.07	101	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	9.040	90	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	9.493	95	80-120	73-127	
Tetrachloroethene	10.00	9.294	93	80-120	73-127	
Toluene	10.00	9.601	96	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	10.37	104	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	10.14	101	80-120	73-127	
1,1,1-Trichloroethane	10.00	9.303	93	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	9.642	96	80-120	73-127	
1,1,2-Trichloroethane	10.00	9.616	96	80-120	73-127	
Trichloroethene	10.00	9.385	94	79-127	71-135	
Trichlorofluoromethane	10.00	10.18	102	80-120	73-127	
1,2,3-Trichloropropane	10.00	8.959	90	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	9.822	98	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.35	103	80-120	73-127	
Vinyl Acetate	10.00	9.982	100	80-120	73-127	
Vinyl Chloride	10.00	10.67	107	72-132	62-142	
p/m-Xylene	20.00	20.15	101	80-120	73-127	
o-Xylene	10.00	10.28	103	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	8.738	87	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	53.82	108	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	9.645	96	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.058	91	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	8.874	89	70-120	62-128	
Ethanol	100.0	129.1	129	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 0
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/05/14
3995 Via Oro Ave		Work Order:	14-09-0448
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 9 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-66	**LCS**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 11:05**	**140911L002**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.23	102	68-120	
Dibromofluoromethane	10.00	9.970	100	80-127	
1,2-Dichloroethane-d4	10.00	10.26	103	80-128	
Toluene-d8	10.00	9.859	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-0448

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0 (M) pCBSA	N/A	811	IC 8	1
EPA 8260B	EPA 5030C	316	GC/MS L	2

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Glossary of Terms and Qualifiers

Work Order: 14-09-0448 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AECOM

Chain-of-Custody Record

14-09-0448

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00007
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL3
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/5/2014
Page: 1 of 3

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
01	TB-20140905	9/5/2014	0600	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
02	EB-20140905	9/5/2014	1446	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
02	EB-20140905	9/5/2014	1446	W	125 mL P	≤6° C	None		1		X	
03	G-23-20140905	9/5/2014	0903	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
03	G-23-20140905	9/5/2014	0903	W	125 mL P	≤6° C	None		1		X	
04	MW-23-20140905	9/5/2014	0930	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
04	MW-23-20140905	9/5/2014	0930	W	125 mL P	≤6° C	None		1		X	
05	MW-24-20140905	9/5/2014	0928	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
05	MW-24-20140905	9/5/2014	0928	W	125 mL P	≤6° C	None		1		X	
06	MW-30-20140905	9/5/2014	1110	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
06	MW-30-20140905	9/5/2014	1110	W	125 mL P	≤6° C	None		1		X	
07	MW-9-20140905	9/5/2014	1025	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
07	MW-9-20140905	9/5/2014	1025	W	125 mL P	≤6° C	None		1		X	
08	MW-900-20140905	9/5/2014	1025	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
08	MW-900-20140905	9/5/2014	1025	W	125 mL P	≤6° C	None		1		X	

Analyses Requested

Relinquished By	Date	Received By	Date
Signature: K Carr Green	9-5-14	Signature: Alex Marquez	9/5/14
Printed: K Carr Green	Time: 1700	Printed: Alex Marquez	Time: 1700
Company: AECOM		Company: ECS	
Reason:			

Relinquished By	Date	Received By	Date
Signature: Alex Marquez	9/5/14	Signature:	9/5/14
Printed: Alex Marquez	Time: 1800	Printed: Yan Liao	Time: 1800
Company: ECS		Company: ECS	
Reason:			

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Comments:
Shipment summary: 16 samples, 1 cooler, 3 COC pages. TAT Type: 1 Week.

Multiple aliquots when necessary

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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AECOM

Chain-of-Custody Record

0448

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00007
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL3
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/5/2014
Page: 2 of 3

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
09	BF-14-20140905	9/5/2014	1003	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
09	BF-14-20140905	9/5/2014	1003	W	125 mL P	≤6° C	None		1		X	
10	G-OW-3-20140905	9/5/2014	1145	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
10	G-OW-3-20140905	9/5/2014	1145	W	125 mL P	≤6° C	None		1		X	
11	G-13-20140905	9/5/2014	1430	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
11	G-13-20140905	9/5/2014	1430	W	125 mL P	≤6° C	None		1		X	
12	G-1300-20140905	9/5/2014	1430	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
12	G-1300-20140905	9/5/2014	1430	W	125 mL P	≤6° C	None		1		X	
13	BF-16-20140905	9/5/2014	1521	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
13	BF-16-20140905	9/5/2014	1521	W	125 mL P	≤6° C	None		1		X	
14	SWL0033-20140905	9/5/2014	1130	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
14	SWL0033-20140905	9/5/2014	1130	W	125 mL P	≤6° C	None		1		X	
15	SWL0034-20140905	9/5/2014	1416	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
15	SWL0034-20140905	9/5/2014	1416	W	125 mL P	≤6° C	None		1		X	
16	BF-24-20140905	9/5/2014	1405	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		

Analyses Requested

Relinquished By	Date	Received By	Date	Relinquished By	Date	Received By	Date
Signature: [signature]	9-5-14	Signature: [signature]	9/5/14	Signature: [signature]	9/5/14	Signature: [signature]	9/5/14
Printed: K. Carr	Time: 17:00	Printed: Alex Martinez	Time: 1700	Printed: Alex Martinez	Time: 1800	Printed: Yan Liao	Time: 1800
Company: AECOM		Company: ECI		Company: ECI		Company: ECI	
Reason:				Reason:			

Comments:
Shipment summary: 16 samples, 1 cooler, 3 COC pages. TAT Type: 1 Week.

Multiple Dilutions

Relinquished By	Date	Received By	Date
Signature:		Signature:	
Printed:	Time:	Printed:	Time:
Company:		Company:	
Reason:			

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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AECOM

Chain-of-Custody Record

0448

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00007
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL3
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/5/2014
Page: 3 of 3

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	pCBSA (Mod. 314.0)	Remarks
16	BF-24-20140905	9/5/2014	1405	W	125 mL P	≤6° C	None		1	X	

Analyses Requested

Relinquished By	Date	Received By	Date
Signature [signature]	9-5-14	Signature [signature]	9/5/14
Printed: K Carr Green	Time 1700	Printed: Alex Marquez	Time 1700
Company AECOM		Company ECI	
Reason:			

Relinquished By	Date	Received By	Date
Signature [signature]	9/5/14	Signature [signature]	9/5/14
Printed: Alex Marquez	Time 1800	Printed: Yan Liao	Time 1800
Company ECI		Company ECI	
Reason:			

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Comments:
Shipment summary: 16 samples, 1 cooler, 3 COC pages. TAT Type: 1 Week.

Multiple Dilutions

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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WORK ORDER #: 14-09-0448

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AECOM

DATE: 09/5/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.7 °C - 0.3 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** 678

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Checked by:** 678

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** 862

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOAh (4) ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☑125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 140828B **Labeled/Checked by:** 862

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 739

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 739

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WORK ORDER #: 14-09-0 4 4 8

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ Sample(s) NOT RECEIVED but listed on COC
- ☐ Sample(s) received but NOT LISTED on COC
- ☐ Holding time expired – list sample ID(s) and test
- ☐ Insufficient quantities for analysis – list test
- ☐ Improper container(s) used – list test
- ☐ Improper preservative used – list test
- ☐ No preservative noted on COC or label – list test & notify lab
- ☐ Sample labels illegible – note test/container type
- ☑ Sample label(s) do not match COC – Note in comments
  - ☐ Sample ID
  - ☑ Date and/or Time Collected — (-5) collection time per label is 8:28
  - ☐ Project Information
  - ☐ # of Container(s)
  - ☐ Analysis
- ☐ Sample container(s) compromised – Note in comments
  - ☐ Water present in sample container
  - ☐ Broken
- ☐ Sample container(s) not labeled
- ☐ Air sample container(s) compromised – Note in comments
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (Not transferred - duplicate bag submitted)
  - ☐ Leaking (transferred into Calscience Tedlar® Bag*)
  - ☐ Leaking (transferred into Client's Tedlar® Bag*)
- ☐ Other: _____

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: 862 09/15/14

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Vikas Patel

From: CarrGreen, Katharine [Katharine.CarrGreen@aecom.com]
Sent: Monday, September 08, 2014 7:19 PM
To: Vikas Patel
Subject: RE: Montrose 2014 BL GW Sampling / 60288979.13.02 / CEL 14-09-0448

Vik- the correct time is 08:28. See attached revised COC.

Additionally - just a reminder - please be sure that it is known that we want samples analyzed in the order listed on the COC; just like we do for SMC and this is a requirement of the Montrose project. The COCs list samples from cleanest to dirtiest.

BTW – we got our equipment fixed and up and running today. We are on for the NPDES sample picked up around noonish.

Katharine

D: 562-213-4166
C: 310-569-1053

From: Vikas Patel [mailto:VikasPatel@eurofinsUS.com]
Sent: Monday, September 08, 2014 11:08 AM
To: CarrGreen, Katharine
Cc: Vikas Patel
Subject: Montrose 2014 BL GW Sampling / 60288979.13.02 / CEL 14-09-0448

Katharine – Please confirm the collection time for sample MW-24-20140905. The collection time per label is 9/5/14 @ 08:28.

Regards,

Vik Patel
Project Manager

Eurofins Calscience, Inc
7440 Lincoln Way
Garden Grove, CA 92841-1427
USA

Phone +1 714 895 5494
Fax +1 714 894 7501

Please note new e-mail adddress below, please update your records. Thank you.

Email: vikaspatel@eurofinsUS.com
Website: www.calscience.com

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WORK ORDER NUMBER: 14-09-0554

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AECOM

Client Project Name: Montrose 2014 BL GW Sampling - 60288979.13.02

Attention: Katharine Carr Green
3995 Via Oro Ave
Long Beach, CA 90810-1869

Vikas Patel

Approved for release on 09/19/2014 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Contents

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Work Order Number: 14-09-0554

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Work Order Narrative

Work Order: 14-09-0554 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/08/14. They were assigned to Work Order 14-09-0554.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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QC Association Summary

Work Order: 14-09-0554

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
TB20140908-B	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S029	140911L039
BF-1-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S01	140909L01
BF-1-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S029	140911L039
BF-100-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S01	140909L01
BF-100-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S029	140911L039
G-20-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S01	140909L01
G-20-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S029	140911L039
BF-34-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S029	140911L039
G-OW-1-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S001	140912L003
BF-OW-1-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S01	140909L01
BF-OW-1-20140908	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140909S02	140909L02
BF-OW-1-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S029	140911L039
MBFB-OW-1-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S001	140912L003
MW-8-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S01	140909L01
MW-8-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S001	140912L003
MW-3-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S01	140909L01
MW-3-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S001	140912L003
MW-31-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S01	140909L01
MW-31-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S001	140912L003
BL-13C-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S01	140909L01
BL-13C-20140908	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140909S02	140909L02
BL-13C-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S001	140912L003

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R = Rerun

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0554
		Project Name:	Montrose 2014 BL GW Sampling - 60288979.13.02
		Received:	09/08/14
Attn:	Katharine Carr Green		Page 1 of 1

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
BF-1-20140908 (14-09-0554-2)						
p-Chlorobenzenesulfonic Acid	29		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
BF-100-20140908 (14-09-0554-3)						
p-Chlorobenzenesulfonic Acid	31		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
BF-OW-1-20140908 (14-09-0554-7)						
p-Chlorobenzenesulfonic Acid	410	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	350		50	ug/L	EPA 314.0 (M) pCBSA	N/A
MBFB-OW-1-20140908 (14-09-0554-8)						
Tert-Butyl Alcohol (TBA)	230	J	160*	ug/L	EPA 8260B	EPA 5030C
MW-8-20140908 (14-09-0554-9)						
p-Chlorobenzenesulfonic Acid	75		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
MW-3-20140908 (14-09-0554-10)						
p-Chlorobenzenesulfonic Acid	21		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
MW-31-20140908 (14-09-0554-11)						
Tert-Butyl Alcohol (TBA)	4.7	J	4.1*	ug/L	EPA 8260B	EPA 5030C
BL-13C-20140908 (14-09-0554-12)						
p-Chlorobenzenesulfonic Acid	6000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	4200		500	ug/L	EPA 314.0 (M) pCBSA	N/A

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-1-20140908	**14-09-0554-2-E**	**09/08/14 09:00**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 15:04**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	29	5.0	0.46	1.00	

BF-100-20140908	**14-09-0554-3-E**	**09/08/14 09:00**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 19:16**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	31	5.0	0.46	1.00	

G-20-20140908	**14-09-0554-4-E**	**09/08/14 12:02**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 15:43**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

BF-OW-1-20140908	**14-09-0554-7-E**	**09/08/14 14:28**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 16:02**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	410	5.0	0.46	1.00	E

BF-OW-1-20140908	**14-09-0554-7-E**	**09/08/14 14:28**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 02:35**	**140909L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	350	50	4.6	10.0	

MW-8-20140908	**14-09-0554-9-E**	**09/08/14 15:05**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 17:39**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	75	5.0	0.46	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3-20140908	**14-09-0554-10-E**	**09/08/14 08:58**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 17:59**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	21	5.0	0.46	1.00	

MW-31-20140908	**14-09-0554-11-E**	**09/08/14 12:00**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 18:18**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

BL-13C-20140908	**14-09-0554-12-E**	**09/08/14 10:50**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 18:38**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	6000	5.0	0.46	1.00	E

BL-13C-20140908	**14-09-0554-12-E**	**09/08/14 10:50**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 02:54**	**140909L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	4200	500	46	100	

Method Blank	**099-15-080-32**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 11:47**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

Method Blank	**099-15-080-31**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 22:42**	**140909L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 1 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB20140908-B	**14-09-0554-1-A**	**09/08/14 08:30**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 01:02**	**140911L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	99	80-120	

BF-1-20140908	**14-09-0554-2-A**	**09/08/14 09:00**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 01:31**	**140911L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	104	80-128	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 2 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-100-20140908	**14-09-0554-3-A**	**09/08/14 09:00**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 01:59**	**140911L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	68-120	
Dibromofluoromethane	106	80-127	
1,2-Dichloroethane-d4	113	80-128	
Toluene-d8	101	80-120	

G-20-20140908	**14-09-0554-4-A**	**09/08/14 12:02**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 02:28**	**140911L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	97	80-127	
1,2-Dichloroethane-d4	103	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 3 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-34-20140908	**14-09-0554-5-A**	**09/08/14 10:45**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 02:56**	**140911L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	108	80-128	
Toluene-d8	100	80-120	

G-OW-1-20140908	**14-09-0554-6-B**	**09/08/14 13:35**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 18:20**	**140912L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	97	80-127	
1,2-Dichloroethane-d4	104	80-128	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 4 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-OW-1-20140908	**14-09-0554-7-A**	**09/08/14 14:28**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 03:53**	**140911L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	104	80-128	
Toluene-d8	101	80-120	

MBFB-OW-1-20140908	**14-09-0554-8-B**	**09/08/14 13:29**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 18:49**	**140912L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	20	12	40.0	
Tert-Butyl Alcohol (TBA)	230	400	160	40.0	J
Diisopropyl Ether (DIPE)	ND	20	9.4	40.0	
Ethyl-t-Butyl Ether (ETBE)	ND	20	8.6	40.0	
Tert-Amyl-Methyl Ether (TAME)	ND	20	9.4	40.0	
Ethanol	ND	2000	690	40.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	68-120	
Dibromofluoromethane	96	80-127	
1,2-Dichloroethane-d4	97	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 5 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8-20140908	**14-09-0554-9-B**	**09/08/14 15:05**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 20:14**	**140912L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	102	80-128	
Toluene-d8	99	80-120	

MW-3-20140908	**14-09-0554-10-B**	**09/08/14 08:58**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 20:43**	**140912L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.58	2.00	
Tert-Butyl Alcohol (TBA)	ND	20	8.2	2.00	
Diisopropyl Ether (DIPE)	ND	1.0	0.47	2.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	0.43	2.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	0.47	2.00	
Ethanol	ND	100	35	2.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 6 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-31-20140908	**14-09-0554-11-B**	**09/08/14 12:00**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 21:39**	**140912L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	4.7	10	4.1	1.00	J
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	103	80-128	
Toluene-d8	104	80-120	

BL-13C-20140908	**14-09-0554-12-B**	**09/08/14 10:50**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 22:08**	**140912L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.58	2.00	
Tert-Butyl Alcohol (TBA)	ND	20	8.2	2.00	
Diisopropyl Ether (DIPE)	ND	1.0	0.47	2.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	0.43	2.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	0.47	2.00	
Ethanol	ND	100	35	2.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	68-120	
Dibromofluoromethane	97	80-127	
1,2-Dichloroethane-d4	99	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 7 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-68**	**N/A**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 00:34**	**140911L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	97	80-127	
1,2-Dichloroethane-d4	104	80-128	
Toluene-d8	101	80-120	

Method Blank	**099-15-234-69**	**N/A**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 12:07**	**140912L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	104	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 1 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
G-20-20140908	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 15:43**	**140909S01**
G-20-20140908	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 16:22**	**140909S01**
G-20-20140908	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 16:41**	**140909S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	25.00	26.46	106	26.17	105	70-130	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 2 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0556-3	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 23:40**	**140909S02**
14-09-0556-3	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 01:56**	**140909S02**
14-09-0556-3	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 02:15**	**140909S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	13.43	25.00	42.04	114	40.12	107	70-130	5	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 3 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BF-1-20140908	**Sample**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 01:31**	**140911S029**
BF-1-20140908	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 06:44**	**140911S029**
BF-1-20140908	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 07:13**	**140911S029**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.336	93	9.147	91	67-121	2	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	56.58	113	54.61	109	36-162	4	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	10.01	100	9.652	97	60-138	4	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.715	97	9.176	92	69-123	6	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.195	92	8.971	90	65-120	2	0-20	
Ethanol	ND	100.0	132.5	132	124.7	125	30-180	6	0-72	

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RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 4 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BF-1-20140908	**Sample**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 01:31**	**140911S029**
BF-1-20140908	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 06:44**	**140911S029**
BF-1-20140908	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 07:13**	**140911S029**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.591	96	9.468	95	68-120	
Dibromofluoromethane	10.00	9.516	95	9.546	95	80-127	
1,2-Dichloroethane-d4	10.00	9.354	94	9.287	93	80-128	
Toluene-d8	10.00	9.903	99	9.966	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 5 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0659-2	**Sample**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 13:05**	**140912S001**
14-09-0659-2	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 16:54**	**140912S001**
14-09-0659-2	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 17:23**	**140912S001**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.237	92	9.861	99	67-121	7	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	60.56	121	55.81	112	36-162	8	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	10.20	102	10.76	108	60-138	5	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.360	94	9.948	99	69-123	6	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.053	91	9.708	97	65-120	7	0-20	
Ethanol	ND	100.0	127.0	127	129.8	130	30-180	2	0-72	

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RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 6 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0659-2	**Sample**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 13:05**	**140912S001**
14-09-0659-2	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 16:54**	**140912S001**
14-09-0659-2	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 17:23**	**140912S001**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.955	100	9.910	99	68-120	
Dibromofluoromethane	10.00	9.780	98	9.894	99	80-127	
1,2-Dichloroethane-d4	10.00	10.02	100	10.54	105	80-128	
Toluene-d8	10.00	10.03	100	9.867	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 1 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-32	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 12:48**	**140909L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	23.95	96	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 2 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-31	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 23:01**	**140909L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	24.98	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 3 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-68	**LCS**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 23:36**	**140911L039**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Methyl-t-Butyl Ether (MTBE)	10.00	9.321	93	69-123	
Tert-Butyl Alcohol (TBA)	50.00	52.82	106	63-123	
Diisopropyl Ether (DIPE)	10.00	9.933	99	59-137	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.148	91	69-123	
Tert-Amyl-Methyl Ether (TAME)	10.00	9.106	91	70-120	
Ethanol	100.0	135.3	135	28-160	

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RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 4 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-68	**LCS**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 23:36**	**140911L039**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.28	103	68-120	
Dibromofluoromethane	10.00	9.804	98	80-127	
1,2-Dichloroethane-d4	10.00	10.51	105	80-128	
Toluene-d8	10.00	9.857	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 5 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-69	**LCS**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 10:57**	**140912L003**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Methyl-t-Butyl Ether (MTBE)	10.00	8.965	90	69-123	
Tert-Butyl Alcohol (TBA)	50.00	49.70	99	63-123	
Diisopropyl Ether (DIPE)	10.00	10.14	101	59-137	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.154	92	69-123	
Tert-Amyl-Methyl Ether (TAME)	10.00	9.067	91	70-120	
Ethanol	100.0	140.4	140	28-160	

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RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0554
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 6 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-69	**LCS**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 10:57**	**140912L003**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.21	102	68-120	
Dibromofluoromethane	10.00	9.805	98	80-127	
1,2-Dichloroethane-d4	10.00	10.11	101	80-128	
Toluene-d8	10.00	9.699	97	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-0554

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0 (M) pCBSA	N/A	811	IC 8	1
EPA 8260B	EPA 5030C	316	GC/MS L	2

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Glossary of Terms and Qualifiers

Work Order: 14-09-0554 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AECOM

Chain-of-Custody Record

14-09-0554

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00010
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL 6
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/8/2014
Page: 1 of 2

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	FO (8260B)	pCBSA (Mod. 314.0)	Remarks
01	TB20140908-B	9/8/2014	0830	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
02	BF-1-20140908	9/8/2014	0900	W	125 mL P	≤6° C	None		1		X	
02	BF-1-20140908	9/8/2014	0900	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
03	BF-100-20140908	9/8/2014	0900	W	125 mL P	≤6° C	None		1		X	
03	BF-100-20140908	9/8/2014	0900	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
04	G-20-20140908	9/8/2014	1202	W	125 mL P	≤6° C	None		1		X	
04	G-20-20140908	9/8/2014	1202	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
05	BF-34-20140908	9/8/2014	1045	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
06	G-OW-1-20140908	9/8/2014	1335	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
07	BF-OW-1-20140908	9/8/2014	1428	W	125 mL P	≤6° C	None		1		X	
07	BF-OW-1-20140908	9/8/2014	1428	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
08	MBFB-OW-1-20140908	9/8/2014	1329	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
09	MW-8-20140908	9/8/2014	1505	W	125 mL P	≤6° C	None		1		X	
09	MW-8-20140908	9/8/2014	1505	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
10	MW-3-20140908	9/8/2014	0858	W	125 mL P	≤6° C	None		1		X	

Analyses Requested

Relinquished By	Date	Received By	Date
Signature: [illegible]	9/8/14	Signature: [illegible]	9/8/14
Printed: Natasha [illegible]	Time: 1705	Printed: Alex Marquez	Time: 1705
Company: AECOM		Company: ECL	
Reason:			

Relinquished By	Date	Received By	Date
Signature: [illegible]	9/8/14	Signature: [illegible]	9/8/14
Printed: Alex Marquez	Time: 1800	Printed: Yaw Liao	Time: 1800
Company: ECL		Company: ECL	
Reason:			

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Comments:
Shipment summary: 12 samples, 1 cooler, 2 COC pages. TAT Type: 1 Week.

Multiple Dilution J

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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AECOM

Chain-of-Custody Record

0554

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00010
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL 6
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/8/2014
Page: 2 of 2

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	Analyses Requested: FO (8260B)	Analyses Requested: pCBSA (Mod. 314.0)	Remarks
10	MW-3-20140908	9/8/2014	0858	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
11	MW-31-20140908	9/8/2014	1200	W	125 mL P	≤6° C	None		1		X	
11	MW-31-20140908	9/8/2014	1200	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
12	BL-13C-20140908	9/8/2014	1050	W	125 mL P	≤6° C	None		1		X	
12	BL-13C-20140908	9/8/2014	1050	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		

Relinquished By	Date	Received By	Date	Relinquished By	Date	Received By	Date
Signature: [signature]	9/8/14	Signature: [signature]	9/8/14	Signature: [signature]	9/8/14	Signature: [signature]	9/8/14
Printed: Natasha Dipuntro	Time	Printed: Alex Marquez	Time	Printed: Alex Marquez	Time	Printed: Yan Liao	Time
Company: AECOM		Company: ECI	1705	Company: ECI	1800	Company: ECI	1800
Reason:				Reason:			

Comments:
Shipment summary: 12 samples, 1 cooler, 2 COC pages. TAT Type: 1 Week.
multiple Dilutions

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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WORK ORDER #: 14-09-0554

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AECOM

DATE: 09/8/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.1 °C - 0.3 °C (CF) = 2.8 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 678

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: 678

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 920

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOAh (4) ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☑125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 1408283 **Labeled/Checked by:** 920

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 689

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 689

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WORK ORDER NUMBER: 14-09-0555

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AECOM

Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02

Attention: Katharine Carr Green
3995 Via Oro Ave
Long Beach, CA 90810-1869

Vikas Patel

Approved for release on 09/19/2014 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02
Work Order Number: 14-09-0555

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3 Detections Summary. 5

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4.1 EPA 314.0 (M) pCBSA (Aqueous). 6

5 Quality Control Sample Data. 8
5.1 MS/MSD. 8
5.2 LCS/LCSD. 10

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8 Chain-of-Custody/Sample Receipt Form. 14

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Work Order Narrative

Work Order: 14-09-0555 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/08/14. They were assigned to Work Order 14-09-0555.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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QC Association Summary

Work Order: 14-09-0555

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
PZL0025-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S01	140909L01
MWC021-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S01	140909L01
MWC017-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S01	140909L01
CMW001-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S01	140909L01
CMW001-20140908	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140909S02	140909L02
CMW002-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S01	140909L01
CMW002-20140908	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140909S02	140909L02

R = Rerun

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0555
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/08/14
Attn:	Katharine Carr Green		Page 1 of 1

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
MWC017-20140908 (14-09-0555-3)						
p-Chlorobenzenesulfonic Acid	77		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
CMW001-20140908 (14-09-0555-4)						
p-Chlorobenzenesulfonic Acid	53000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	32000		5000	ug/L	EPA 314.0 (M) pCBSA	N/A
CMW002-20140908 (14-09-0555-5)						
p-Chlorobenzenesulfonic Acid	96000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	57000		10000	ug/L	EPA 314.0 (M) pCBSA	N/A

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0555
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PZL0025-20140908	**14-09-0555-1-A**	**09/08/14 14:44**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 19:55**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

MWC021-20140908	**14-09-0555-2-A**	**09/08/14 10:28**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 20:15**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

MWC017-20140908	**14-09-0555-3-A**	**09/08/14 12:33**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 20:34**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	77	5.0	0.46	1.00	

CMW001-20140908	**14-09-0555-4-A**	**09/08/14 12:43**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 20:53**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	53000	5.0	0.46	1.00	E

CMW001-20140908	**14-09-0555-4-A**	**09/08/14 12:43**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 03:13**	**140909L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	32000	5000	460	1000	

CMW002-20140908	**14-09-0555-5-A**	**09/08/14 09:18**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 21:13**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	96000	5.0	0.46	1.00	E

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0555
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CMW002-20140908	**14-09-0555-5-A**	**09/08/14 09:18**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 04:12**	**140909L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	57000	10000	920	2000	

Method Blank	**099-15-080-32**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 11:47**	**140909L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

Method Blank	**099-15-080-31**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 22:42**	**140909L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0555
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0554-4	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 15:43**	**140909S01**
14-09-0554-4	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 16:22**	**140909S01**
14-09-0554-4	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 16:41**	**140909S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	25.00	26.46	106	26.17	105	70-130	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0555
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0556-3	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 23:40**	**140909S02**
14-09-0556-3	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 01:56**	**140909S02**
14-09-0556-3	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 02:15**	**140909S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	13.43	25.00	42.04	114	40.12	107	70-130	5	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0555
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-32	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 12:48**	**140909L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	23.95	96	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0555
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-31	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 23:01**	**140909L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	24.98	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-0555

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0 (M) pCBSA	N/A	811	IC 8	1

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Glossary of Terms and Qualifiers

Work Order: 14-09-0555

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AECOM

Chain-of-Custody Record

14-09-0555

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00009
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL 5
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/8/2014
Page: 1 of 1

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	pCBSA (Mod. 314.0)	Remarks
01	PZL0025-20140908	9/8/2014	1444	W	125 mL P	≤6° C	None		1	X	
02	MWC021-20140908	9/8/2014	1028	W	125 mL P	≤6° C	None		1	X	
03	MWC017-20140908	9/8/2014	1233	W	125 mL P	≤6° C	None		1	X	
04	CMW001-20140908	9/8/2014	1243	W	125 mL P	≤6° C	None		1	X	
05	CMW002-20140908	9/8/2014	0918	W	125 mL P	≤6° C	None		1	X	

Relinquished By	Date	Received By	Date	Relinquished By	Date	Received By	Date
Signature	9/8/14	Signature	9/8/14	Signature	9/8/14	Signature	9/8/14
Printed: K Carr	Time 1705	Printed: Alex Marquez	Time 1705	Printed: Alex Marquez	Time 1800	Printed: Yan Liao	Time 1800
Company AECOM		Company ECC		Company ECC		Company ECI	
Reason:				Reason:			

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Comments:
Shipment summary: 5 samples, 1 cooler, 1 COC page. TAT Type: 1 Week.
multiple Dilutions on all samples when necessary.

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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WORK ORDER #: 14-09-0555

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AECOM

DATE: 09/8/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.9 °C - 0.3 °C (CF) = 2.6 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 678

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: 678

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 920

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☑125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 920

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 689

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 689

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WORK ORDER NUMBER: 14-09-0556

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AECOM

Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02

Attention: Katharine Carr Green
3995 Via Oro Ave
Long Beach, CA 90810-1869

Vikas Patel

Approved for release on 09/22/2014 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02
Work Order Number: 14-09-0556

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Work Order Narrative

Work Order: 14-09-0556 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/08/14. They were assigned to Work Order 14-09-0556.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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QC Association Summary

Work Order: 14-09-0556

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
TB-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S002	140911L002
EB-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S02	140909L02
EB-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S002	140911L002
BF-30-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S02	140909L02
BF-30-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S002	140911L002
MW-10-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S02	140909L02
MW-10-20140908	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140917S01	140917L01
MW-10-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S002	140911L002
BF-23-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S02	140909L02
BF-23-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140911S002	140911L002
MW-5-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S02	140909L02
MW-5-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S001	140912L003
MW-5-20140908	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140912S001	140912L003
G-12-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S02	140909L02
G-12-20140908	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140910L01
G-12-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S001	140912L003
G-12-20140908	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140911S029	140911L039
BF-3-20140908	EPA 314.0 (M) pCBSA		N/A	IC 8	140909S02	140909L02
BF-3-20140908	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140910L01
BF-3-20140908	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S001	140912L003
BF-3-20140908	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140911S029	140911L039

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1 = Dilution analysis performed, no associated matrix QC

R = Rerun

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0556
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/08/14
Attn:	Katharine Carr Green		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
EB-20140908 (14-09-0556-2)						
Methylene Chloride	0.92	J	0.38*	ug/L	EPA 8260B	EPA 5030C
BF-30-20140908 (14-09-0556-3)						
p-Chlorobenzenesulfonic Acid	13		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
MW-10-20140908 (14-09-0556-4)						
p-Chlorobenzenesulfonic Acid	160	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	170		10	ug/L	EPA 314.0 (M) pCBSA	N/A
Chloroform	11		0.50	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	2.8		0.50	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	10		0.50	ug/L	EPA 8260B	EPA 5030C
BF-23-20140908 (14-09-0556-5)						
p-Chlorobenzenesulfonic Acid	5.2		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	0.16	J	0.14*	ug/L	EPA 8260B	EPA 5030C
MW-5-20140908 (14-09-0556-6)						
p-Chlorobenzenesulfonic Acid	53		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
Carbon Tetrachloride	5.6		2.5	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	19		2.5	ug/L	EPA 8260B	EPA 5030C
Chloroform	1200	E	2.5	ug/L	EPA 8260B	EPA 5030C
Chloroform	1100		25	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	170		2.5	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	3.3		2.5	ug/L	EPA 8260B	EPA 5030C
G-12-20140908 (14-09-0556-7)						
p-Chlorobenzenesulfonic Acid	56000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	36000		5000	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	25		5.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	2300	E	5.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	2600		50	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	3.0	J	1.8*	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	3.8	J	2.3*	ug/L	EPA 8260B	EPA 5030C
BF-3-20140908 (14-09-0556-8)						
p-Chlorobenzenesulfonic Acid	13000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	8900		1000	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	6.6		4.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	1500	E	4.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	1500		200	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	3.0	J	1.6*	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	680	E	4.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	650		200	ug/L	EPA 8260B	EPA 5030C

* MDL is shown

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0556
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/08/14
Attn:	Katharine Carr Green		Page 2 of 2

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140908	**14-09-0556-2-D**	**09/08/14 14:20**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 23:21**	**140909L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

BF-30-20140908	**14-09-0556-3-E**	**09/08/14 09:18**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 23:40**	**140909L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	13	5.0	0.46	1.00	

MW-10-20140908	**14-09-0556-4-E**	**09/08/14 12:13**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 23:59**	**140909L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	160	5.0	0.46	1.00	E

MW-10-20140908	**14-09-0556-4-E**	**09/08/14 12:13**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 17:50**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	170	10	0.92	2.00	

BF-23-20140908	**14-09-0556-5-E**	**09/08/14 10:10**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 00:19**	**140909L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	5.2	5.0	0.46	1.00	

MW-5-20140908	**14-09-0556-6-E**	**09/08/14 13:18**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 00:38**	**140909L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	53	5.0	0.46	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-12-20140908	**14-09-0556-7-E**	**09/08/14 10:41**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 00:58**	**140909L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	56000	5.0	0.46	1.00	E

G-12-20140908	**14-09-0556-7-E**	**09/08/14 10:41**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 14:39**	**140910L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	36000	5000	460	1000	

BF-3-20140908	**14-09-0556-8-E**	**09/08/14 13:53**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 01:17**	**140909L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	13000	5.0	0.46	1.00	E

BF-3-20140908	**14-09-0556-8-E**	**09/08/14 13:53**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 14:58**	**140910L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	8900	1000	92	200	

Method Blank	**099-15-080-31**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 22:42**	**140909L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

Method Blank	**099-15-080-37**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 12:04**	**140910L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-080-41**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 13:58**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-20140908	**14-09-0556-1-A**	**09/08/14 08:30**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 13:06**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 30

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/08/14
3995 Via Oro Ave	Work Order:	14-09-0556
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 3 of 30

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	68-120	
Dibromofluoromethane	95	80-127	
1,2-Dichloroethane-d4	103	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140908	**14-09-0556-2-A**	**09/08/14 14:20**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 13:35**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 30

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	0.92	1.0	0.38	1.00	J
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/08/14
3995 Via Oro Ave	Work Order:	14-09-0556
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 6 of 30

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	106	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-30-20140908	**14-09-0556-3-A**	**09/08/14 09:18**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 14:03**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 30

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/08/14
3995 Via Oro Ave	Work Order:	14-09-0556
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 9 of 30

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	108	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10-20140908	**14-09-0556-4-A**	**09/08/14 12:13**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 14:32**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	11	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 30

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	2.8	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	10	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/08/14
3995 Via Oro Ave	Work Order:	14-09-0556
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 12 of 30

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 13 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-23-20140908	**14-09-0556-5-A**	**09/08/14 10:10**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 15:01**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	0.16	0.50	0.14	1.00	J
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 14 of 30

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/08/14
3995 Via Oro Ave	Work Order:	14-09-0556
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 15 of 30

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	111	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 16 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5-20140908	**14-09-0556-6-B**	**09/08/14 13:18**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 15:00**	**140912L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	50	18	5.00	
Benzene	ND	2.5	1.6	5.00	
Bromobenzene	ND	2.5	1.6	5.00	
Bromochloromethane	ND	5.0	1.9	5.00	
Bromodichloromethane	ND	2.5	0.98	5.00	
Bromoform	ND	2.5	1.7	5.00	
Bromomethane	ND	5.0	1.9	5.00	
2-Butanone	ND	25	14	5.00	
n-Butylbenzene	ND	2.5	1.7	5.00	
sec-Butylbenzene	ND	2.5	1.1	5.00	
tert-Butylbenzene	ND	2.5	1.9	5.00	
Carbon Disulfide	ND	5.0	2.2	5.00	
Carbon Tetrachloride	5.6	2.5	1.1	5.00	
Chlorobenzene	19	2.5	0.72	5.00	
Chloroethane	ND	2.5	1.7	5.00	
Chloroform	1200	2.5	1.1	5.00	E
Chloromethane	ND	2.5	1.1	5.00	
2-Chlorotoluene	ND	2.5	1.7	5.00	
4-Chlorotoluene	ND	2.5	1.6	5.00	
Dibromochloromethane	ND	2.5	1.2	5.00	
1,2-Dibromo-3-Chloropropane	ND	25	14	5.00	
1,2-Dibromoethane	ND	2.5	1.7	5.00	
Dibromomethane	ND	2.5	1.7	5.00	
1,2-Dichlorobenzene	ND	2.5	0.85	5.00	
1,3-Dichlorobenzene	ND	2.5	0.85	5.00	
1,4-Dichlorobenzene	ND	2.5	1.6	5.00	
Dichlorodifluoromethane	ND	5.0	1.2	5.00	
1,1-Dichloroethane	ND	2.5	0.95	5.00	
1,2-Dichloroethane	ND	2.5	0.92	5.00	
1,1-Dichloroethene	ND	2.5	1.0	5.00	
c-1,2-Dichloroethene	ND	2.5	1.2	5.00	
t-1,2-Dichloroethene	ND	2.5	1.3	5.00	
1,2-Dichloropropane	ND	2.5	1.2	5.00	
1,3-Dichloropropane	ND	5.0	1.2	5.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 17 of 30

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	5.0	2.1	5.00	
1,1-Dichloropropene	ND	2.5	1.4	5.00	
c-1,3-Dichloropropene	ND	2.5	0.92	5.00	
t-1,3-Dichloropropene	ND	2.5	1.7	5.00	
Ethylbenzene	ND	2.5	1.6	5.00	
2-Hexanone	ND	50	13	5.00	
Isopropylbenzene	ND	2.5	2.1	5.00	
p-Isopropyltoluene	ND	2.5	0.68	5.00	
Methylene Chloride	ND	5.0	1.9	5.00	
4-Methyl-2-Pentanone	ND	25	14	5.00	
Naphthalene	ND	5.0	2.0	5.00	
n-Propylbenzene	ND	2.5	1.9	5.00	
Styrene	ND	2.5	1.6	5.00	
1,1,1,2-Tetrachloroethane	ND	2.5	1.2	5.00	
1,1,2,2-Tetrachloroethane	ND	2.5	1.1	5.00	
Tetrachloroethene	170	2.5	1.1	5.00	
Toluene	ND	2.5	1.3	5.00	
1,2,3-Trichlorobenzene	ND	2.5	1.2	5.00	
1,2,4-Trichlorobenzene	ND	2.5	1.2	5.00	
1,1,1-Trichloroethane	ND	2.5	0.95	5.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	2.5	1.3	5.00	
1,1,2-Trichloroethane	ND	2.5	1.6	5.00	
Trichloroethene	3.3	2.5	1.2	5.00	
Trichlorofluoromethane	ND	2.5	1.2	5.00	
1,2,3-Trichloropropane	ND	5.0	1.2	5.00	
1,2,4-Trimethylbenzene	ND	2.5	0.75	5.00	
1,3,5-Trimethylbenzene	ND	2.5	1.7	5.00	
Vinyl Acetate	ND	25	11	5.00	
Vinyl Chloride	ND	2.5	1.4	5.00	
p/m-Xylene	ND	2.5	1.2	5.00	
o-Xylene	ND	2.5	2.0	5.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.5	1.4	5.00	
Tert-Butyl Alcohol (TBA)	ND	50	20	5.00	
Diisopropyl Ether (DIPE)	ND	2.5	1.2	5.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.5	1.1	5.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.5	1.2	5.00	
Ethanol	ND	250	87	5.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 18 of 30

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	111	80-128	
Toluene-d8	99	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5-20140908	**14-09-0556-6-B**	**09/08/14 13:18**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 15:29**	**140912L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chloroform	1100	25	11	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 19 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-12-20140908	**14-09-0556-7-B**	**09/08/14 10:41**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 15:57**	**140912L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	100	35	10.0	
Benzene	25	5.0	3.2	10.0	
Bromobenzene	ND	5.0	3.3	10.0	
Bromochloromethane	ND	10	3.8	10.0	
Bromodichloromethane	ND	5.0	2.0	10.0	
Bromoform	ND	5.0	3.4	10.0	
Bromomethane	ND	10	3.8	10.0	
2-Butanone	ND	50	29	10.0	
n-Butylbenzene	ND	5.0	3.4	10.0	
sec-Butylbenzene	ND	5.0	2.3	10.0	
tert-Butylbenzene	ND	5.0	3.8	10.0	
Carbon Disulfide	ND	10	4.4	10.0	
Carbon Tetrachloride	ND	5.0	2.2	10.0	
Chlorobenzene	2300	5.0	1.4	10.0	E
Chloroethane	ND	5.0	3.4	10.0	
Chloroform	ND	5.0	2.2	10.0	
Chloromethane	ND	5.0	2.2	10.0	
2-Chlorotoluene	ND	5.0	3.4	10.0	
4-Chlorotoluene	ND	5.0	3.3	10.0	
Dibromochloromethane	ND	5.0	2.4	10.0	
1,2-Dibromo-3-Chloropropane	ND	50	29	10.0	
1,2-Dibromoethane	ND	5.0	3.4	10.0	
Dibromomethane	ND	5.0	3.4	10.0	
1,2-Dichlorobenzene	ND	5.0	1.7	10.0	
1,3-Dichlorobenzene	ND	5.0	1.7	10.0	
1,4-Dichlorobenzene	ND	5.0	3.1	10.0	
Dichlorodifluoromethane	ND	10	2.4	10.0	
1,1-Dichloroethane	ND	5.0	1.9	10.0	
1,2-Dichloroethane	3.0	5.0	1.8	10.0	J
1,1-Dichloroethene	ND	5.0	2.0	10.0	
c-1,2-Dichloroethene	ND	5.0	2.4	10.0	
t-1,2-Dichloroethene	ND	5.0	2.6	10.0	
1,2-Dichloropropane	ND	5.0	2.4	10.0	
1,3-Dichloropropane	ND	10	2.4	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 20 of 30

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	10	4.2	10.0	
1,1-Dichloropropene	ND	5.0	2.8	10.0	
c-1,3-Dichloropropene	ND	5.0	1.8	10.0	
t-1,3-Dichloropropene	ND	5.0	3.5	10.0	
Ethylbenzene	ND	5.0	3.2	10.0	
2-Hexanone	ND	100	26	10.0	
Isopropylbenzene	ND	5.0	4.2	10.0	
p-Isopropyltoluene	ND	5.0	1.4	10.0	
Methylene Chloride	ND	10	3.8	10.0	
4-Methyl-2-Pentanone	ND	50	27	10.0	
Naphthalene	ND	10	4.1	10.0	
n-Propylbenzene	ND	5.0	3.8	10.0	
Styrene	ND	5.0	3.2	10.0	
1,1,1,2-Tetrachloroethane	ND	5.0	2.4	10.0	
1,1,2,2-Tetrachloroethane	ND	5.0	2.2	10.0	
Tetrachloroethene	ND	5.0	2.2	10.0	
Toluene	ND	5.0	2.6	10.0	
1,2,3-Trichlorobenzene	ND	5.0	2.5	10.0	
1,2,4-Trichlorobenzene	ND	5.0	2.5	10.0	
1,1,1-Trichloroethane	ND	5.0	1.9	10.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	5.0	2.6	10.0	
1,1,2-Trichloroethane	ND	5.0	3.2	10.0	
Trichloroethene	3.8	5.0	2.3	10.0	J
Trichlorofluoromethane	ND	5.0	2.5	10.0	
1,2,3-Trichloropropane	ND	10	2.5	10.0	
1,2,4-Trimethylbenzene	ND	5.0	1.5	10.0	
1,3,5-Trimethylbenzene	ND	5.0	3.3	10.0	
Vinyl Acetate	ND	50	22	10.0	
Vinyl Chloride	ND	5.0	2.7	10.0	
p/m-Xylene	ND	5.0	2.4	10.0	
o-Xylene	ND	5.0	3.9	10.0	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	2.9	10.0	
Tert-Butyl Alcohol (TBA)	ND	100	41	10.0	
Diisopropyl Ether (DIPE)	ND	5.0	2.4	10.0	
Ethyl-t-Butyl Ether (ETBE)	ND	5.0	2.2	10.0	
Tert-Amyl-Methyl Ether (TAME)	ND	5.0	2.4	10.0	
Ethanol	ND	500	170	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 21 of 30

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	99	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-12-20140908	**14-09-0556-7-A**	**09/08/14 10:41**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 08:39**	**140911L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	2600	50	14	100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	97	80-127	
1,2-Dichloroethane-d4	102	80-128	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 22 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-3-20140908	**14-09-0556-8-B**	**09/08/14 13:53**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 16:26**	**140912L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	80	28	8.00	
Benzene	6.6	4.0	2.6	8.00	
Bromobenzene	ND	4.0	2.6	8.00	
Bromochloromethane	ND	8.0	3.0	8.00	
Bromodichloromethane	ND	4.0	1.6	8.00	
Bromoform	ND	4.0	2.7	8.00	
Bromomethane	ND	8.0	3.0	8.00	
2-Butanone	ND	40	23	8.00	
n-Butylbenzene	ND	4.0	2.7	8.00	
sec-Butylbenzene	ND	4.0	1.8	8.00	
tert-Butylbenzene	ND	4.0	3.0	8.00	
Carbon Disulfide	ND	8.0	3.5	8.00	
Carbon Tetrachloride	ND	4.0	1.7	8.00	
Chlorobenzene	1500	4.0	1.2	8.00	E
Chloroethane	ND	4.0	2.7	8.00	
Chloroform	ND	4.0	1.7	8.00	
Chloromethane	ND	4.0	1.7	8.00	
2-Chlorotoluene	ND	4.0	2.7	8.00	
4-Chlorotoluene	ND	4.0	2.6	8.00	
Dibromochloromethane	ND	4.0	1.9	8.00	
1,2-Dibromo-3-Chloropropane	ND	40	23	8.00	
1,2-Dibromoethane	ND	4.0	2.7	8.00	
Dibromomethane	ND	4.0	2.8	8.00	
1,2-Dichlorobenzene	ND	4.0	1.4	8.00	
1,3-Dichlorobenzene	ND	4.0	1.4	8.00	
1,4-Dichlorobenzene	ND	4.0	2.5	8.00	
Dichlorodifluoromethane	ND	8.0	1.9	8.00	
1,1-Dichloroethane	ND	4.0	1.5	8.00	
1,2-Dichloroethane	ND	4.0	1.5	8.00	
1,1-Dichloroethene	3.0	4.0	1.6	8.00	J
c-1,2-Dichloroethene	ND	4.0	2.0	8.00	
t-1,2-Dichloroethene	ND	4.0	2.1	8.00	
1,2-Dichloropropane	ND	4.0	1.9	8.00	
1,3-Dichloropropane	ND	8.0	1.9	8.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 23 of 30

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	8.0	3.4	8.00	
1,1-Dichloropropene	ND	4.0	2.2	8.00	
c-1,3-Dichloropropene	ND	4.0	1.5	8.00	
t-1,3-Dichloropropene	ND	4.0	2.8	8.00	
Ethylbenzene	ND	4.0	2.5	8.00	
2-Hexanone	ND	80	21	8.00	
Isopropylbenzene	ND	4.0	3.3	8.00	
p-Isopropyltoluene	ND	4.0	1.1	8.00	
Methylene Chloride	ND	8.0	3.1	8.00	
4-Methyl-2-Pentanone	ND	40	22	8.00	
Naphthalene	ND	8.0	3.3	8.00	
n-Propylbenzene	ND	4.0	3.0	8.00	
Styrene	ND	4.0	2.6	8.00	
1,1,1,2-Tetrachloroethane	ND	4.0	1.9	8.00	
1,1,2,2-Tetrachloroethane	ND	4.0	1.8	8.00	
Tetrachloroethene	ND	4.0	1.7	8.00	
Toluene	ND	4.0	2.1	8.00	
1,2,3-Trichlorobenzene	ND	4.0	2.0	8.00	
1,2,4-Trichlorobenzene	ND	4.0	2.0	8.00	
1,1,1-Trichloroethane	ND	4.0	1.5	8.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	4.0	2.0	8.00	
1,1,2-Trichloroethane	ND	4.0	2.6	8.00	
Trichloroethene	680	4.0	1.8	8.00	E
Trichlorofluoromethane	ND	4.0	2.0	8.00	
1,2,3-Trichloropropane	ND	8.0	2.0	8.00	
1,2,4-Trimethylbenzene	ND	4.0	1.2	8.00	
1,3,5-Trimethylbenzene	ND	4.0	2.7	8.00	
Vinyl Acetate	ND	40	18	8.00	
Vinyl Chloride	ND	4.0	2.2	8.00	
p/m-Xylene	ND	4.0	1.9	8.00	
o-Xylene	ND	4.0	3.1	8.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.0	2.3	8.00	
Tert-Butyl Alcohol (TBA)	ND	80	33	8.00	
Diisopropyl Ether (DIPE)	ND	4.0	1.9	8.00	
Ethyl-t-Butyl Ether (ETBE)	ND	4.0	1.7	8.00	
Tert-Amyl-Methyl Ether (TAME)	ND	4.0	1.9	8.00	
Ethanol	ND	400	140	8.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 24 of 30

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	99	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-3-20140908	**14-09-0556-8-A**	**09/08/14 13:53**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 09:07**	**140911L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	1500	200	58	400	
Trichloroethene	650	200	92	400	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	101	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 25 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-66**	**N/A**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 12:09**	**140911L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 26 of 30

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 27 of 30

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	99	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-68**	**N/A**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 00:34**	**140911L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	ND	0.50	0.14	1.00	
Trichloroethene	ND	0.50	0.23	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	97	80-127	
1,2-Dichloroethane-d4	104	80-128	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 28 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-69**	**N/A**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 12:07**	**140912L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 29 of 30

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/08/14
3995 Via Oro Ave	Work Order:	14-09-0556
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 30 of 30

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	104	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BF-30-20140908	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 23:40**	**140909S02**
BF-30-20140908	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 01:56**	**140909S02**
BF-30-20140908	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 02:15**	**140909S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	13.43	25.00	42.04	114	40.12	107	70-130	5	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-1187-5	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 15:35**	**140917S01**
14-09-1187-5	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 16:52**	**140917S01**
14-09-1187-5	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 17:12**	**140917S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	25.00	23.14	93	23.29	93	70-130	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BF-30-20140908	**Sample**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 14:03**	**140911S002**
BF-30-20140908	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 15:29**	**140911S002**
BF-30-20140908	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 15:58**	**140911S002**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	8.153	82	8.704	87	80-120	7	0-20	
Benzene	ND	10.00	10.53	105	10.16	102	76-124	4	0-20	
Bromobenzene	ND	10.00	10.32	103	10.45	104	80-120	1	0-20	
Bromochloromethane	ND	10.00	10.06	101	9.602	96	80-120	5	0-20	
Bromodichloromethane	ND	10.00	10.02	100	9.838	98	80-120	2	0-20	
Bromoform	ND	10.00	8.310	83	8.492	85	80-120	2	0-20	
Bromomethane	ND	10.00	9.614	96	9.333	93	80-120	3	0-20	
2-Butanone	ND	10.00	9.700	97	9.834	98	80-120	1	0-20	
n-Butylbenzene	ND	10.00	10.58	106	10.49	105	80-120	1	0-25	
sec-Butylbenzene	ND	10.00	10.59	106	10.42	104	80-120	2	0-20	
tert-Butylbenzene	ND	10.00	10.71	107	10.38	104	80-120	3	0-20	
Carbon Disulfide	ND	10.00	9.126	91	8.916	89	80-120	2	0-20	
Carbon Tetrachloride	ND	10.00	8.814	88	8.894	89	74-134	1	0-20	
Chlorobenzene	ND	10.00	10.84	108	10.70	107	80-120	1	0-20	
Chloroethane	ND	10.00	9.691	97	9.914	99	80-120	2	0-20	
Chloroform	ND	10.00	9.949	99	9.650	96	80-120	3	0-20	
Chloromethane	ND	10.00	9.912	99	10.39	104	80-120	5	0-20	
2-Chlorotoluene	ND	10.00	11.26	113	11.16	112	80-120	1	0-20	
4-Chlorotoluene	ND	10.00	10.56	106	10.25	103	80-120	3	0-20	
Dibromochloromethane	ND	10.00	9.186	92	9.662	97	80-120	5	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	9.243	92	9.314	93	80-120	1	0-20	
1,2-Dibromoethane	ND	10.00	10.29	103	10.25	103	80-120	0	0-20	
Dibromomethane	ND	10.00	10.32	103	10.43	104	80-120	1	0-20	
1,2-Dichlorobenzene	ND	10.00	10.88	109	10.76	108	80-120	1	0-20	
1,3-Dichlorobenzene	ND	10.00	10.56	106	10.48	105	80-120	1	0-20	
1,4-Dichlorobenzene	ND	10.00	10.38	104	10.08	101	80-120	3	0-20	
Dichlorodifluoromethane	ND	10.00	10.73	107	11.16	112	80-120	4	0-20	
1,1-Dichloroethane	ND	10.00	9.420	94	9.448	94	80-120	0	0-20	
1,2-Dichloroethane	ND	10.00	10.85	109	10.42	104	80-120	4	0-20	
1,1-Dichloroethene	ND	10.00	9.734	97	9.489	95	73-127	3	0-20	
c-1,2-Dichloroethene	ND	10.00	10.96	110	10.89	109	80-120	1	0-20	
t-1,2-Dichloroethene	ND	10.00	10.01	100	9.661	97	80-120	4	0-20	
1,2-Dichloropropane	ND	10.00	10.06	101	9.660	97	80-120	4	0-25	
1,3-Dichloropropane	ND	10.00	10.44	104	10.71	107	80-120	3	0-20	
2,2-Dichloropropane	ND	10.00	9.293	93	8.983	90	80-120	3	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 11

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	10.31	103	10.07	101	80-120	2	0-20	
c-1,3-Dichloropropene	ND	10.00	9.850	98	9.543	95	80-120	3	0-20	
t-1,3-Dichloropropene	ND	10.00	9.150	92	9.142	91	80-120	0	0-20	
Ethylbenzene	ND	10.00	10.48	105	10.35	104	78-126	1	0-20	
2-Hexanone	ND	10.00	10.36	104	9.896	99	80-120	5	0-20	
Isopropylbenzene	ND	10.00	10.78	108	10.64	106	80-120	1	0-20	
p-Isopropyltoluene	ND	10.00	9.506	95	9.263	93	80-120	3	0-20	
Methylene Chloride	ND	10.00	10.39	104	9.788	98	80-120	6	0-20	
4-Methyl-2-Pentanone	ND	10.00	10.16	102	10.37	104	80-120	2	0-20	
Naphthalene	ND	10.00	11.64	116	11.70	117	80-120	0	0-20	
n-Propylbenzene	ND	10.00	10.99	110	10.80	108	80-120	2	0-20	
Styrene	ND	10.00	10.65	107	10.55	106	80-120	1	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	9.416	94	9.625	96	80-120	2	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.41	104	10.17	102	80-120	2	0-20	
Tetrachloroethene	ND	10.00	8.570	86	8.534	85	80-120	0	0-20	
Toluene	ND	10.00	10.34	103	9.807	98	80-120	5	0-20	
1,2,3-Trichlorobenzene	ND	10.00	11.26	113	11.45	115	80-120	2	0-20	
1,2,4-Trichlorobenzene	ND	10.00	10.93	109	10.98	110	80-120	0	0-20	
1,1,1-Trichloroethane	ND	10.00	9.260	93	9.350	93	80-120	1	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	10.03	100	9.806	98	80-120	2	0-20	
1,1,2-Trichloroethane	ND	10.00	10.41	104	10.40	104	80-120	0	0-20	
Trichloroethene	ND	10.00	9.930	99	9.738	97	77-120	2	0-20	
Trichlorofluoromethane	ND	10.00	10.11	101	9.907	99	80-120	2	0-20	
1,2,3-Trichloropropane	ND	10.00	9.924	99	9.683	97	80-120	2	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.28	103	10.08	101	80-120	2	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.85	109	10.68	107	80-120	2	0-20	
Vinyl Acetate	ND	10.00	10.33	103	10.18	102	80-120	1	0-20	
Vinyl Chloride	ND	10.00	10.21	102	10.71	107	72-126	5	0-20	
p/m-Xylene	ND	20.00	21.52	108	20.96	105	80-120	3	0-20	
o-Xylene	ND	10.00	10.75	107	10.64	106	80-120	1	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.052	91	9.083	91	67-121	0	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	51.93	104	50.94	102	36-162	2	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	9.952	100	9.807	98	60-138	1	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.906	99	9.659	97	69-123	3	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.502	95	9.400	94	65-120	1	0-20	
Ethanol	ND	100.0	118.6	119	115.2	115	30-180	3	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BF-30-20140908	**Sample**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 14:03**	**140911S002**
BF-30-20140908	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 15:29**	**140911S002**
BF-30-20140908	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 15:58**	**140911S002**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.51	105	10.34	103	68-120	
Dibromofluoromethane	10.00	9.957	100	10.00	100	80-127	
1,2-Dichloroethane-d4	10.00	10.49	105	10.58	106	80-128	
Toluene-d8	10.00	10.03	100	9.893	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 6 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0554-2	**Sample**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 01:31**	**140911S029**
14-09-0554-2	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 06:44**	**140911S029**
14-09-0554-2	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 07:13**	**140911S029**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	9.959	100	10.23	102	80-120	3	0-20	
Benzene	ND	10.00	10.48	105	10.11	101	76-124	4	0-20	
Bromobenzene	ND	10.00	9.827	98	9.536	95	80-120	3	0-20	
Bromochloromethane	ND	10.00	10.12	101	9.649	96	80-120	5	0-20	
Bromodichloromethane	ND	10.00	8.864	89	9.100	91	80-120	3	0-20	
Bromoform	ND	10.00	7.828	78	7.937	79	80-120	1	0-20	3
Bromomethane	ND	10.00	9.481	95	8.542	85	80-120	10	0-20	
2-Butanone	ND	10.00	9.730	97	8.329	83	80-120	16	0-20	
n-Butylbenzene	ND	10.00	9.969	100	9.502	95	80-120	5	0-25	
sec-Butylbenzene	ND	10.00	10.57	106	10.01	100	80-120	5	0-20	
tert-Butylbenzene	ND	10.00	10.99	110	10.47	105	80-120	5	0-20	
Carbon Disulfide	ND	10.00	9.503	95	8.985	90	80-120	6	0-20	
Carbon Tetrachloride	ND	10.00	7.796	78	8.126	81	74-134	4	0-20	
Chlorobenzene	4.864	10.00	15.44	106	14.60	97	80-120	6	0-20	
Chloroethane	ND	10.00	11.00	110	10.43	104	80-120	5	0-20	
Chloroform	ND	10.00	9.516	95	9.202	92	80-120	3	0-20	
Chloromethane	ND	10.00	10.64	106	9.881	99	80-120	7	0-20	
2-Chlorotoluene	ND	10.00	10.45	104	9.956	100	80-120	5	0-20	
4-Chlorotoluene	ND	10.00	10.47	105	9.812	98	80-120	6	0-20	
Dibromochloromethane	ND	10.00	8.658	87	8.628	86	80-120	0	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	8.398	84	8.152	82	80-120	3	0-20	
1,2-Dibromoethane	ND	10.00	10.20	102	9.662	97	80-120	5	0-20	
Dibromomethane	ND	10.00	9.560	96	9.819	98	80-120	3	0-20	
1,2-Dichlorobenzene	ND	10.00	10.68	107	10.17	102	80-120	5	0-20	
1,3-Dichlorobenzene	ND	10.00	10.56	106	10.12	101	80-120	4	0-20	
1,4-Dichlorobenzene	ND	10.00	10.17	102	9.680	97	80-120	5	0-20	
Dichlorodifluoromethane	ND	10.00	9.301	93	9.066	91	80-120	3	0-20	
1,1-Dichloroethane	ND	10.00	9.622	96	9.215	92	80-120	4	0-20	
1,2-Dichloroethane	ND	10.00	9.333	93	9.187	92	80-120	2	0-20	
1,1-Dichloroethene	ND	10.00	10.28	103	9.612	96	73-127	7	0-20	
c-1,2-Dichloroethene	3.086	10.00	14.10	110	12.28	92	80-120	14	0-20	
t-1,2-Dichloroethene	ND	10.00	10.46	105	9.876	99	80-120	6	0-20	
1,2-Dichloropropane	ND	10.00	9.672	97	9.556	96	80-120	1	0-25	
1,3-Dichloropropane	ND	10.00	10.29	103	9.711	97	80-120	6	0-20	
2,2-Dichloropropane	ND	10.00	6.801	68	6.410	64	80-120	6	0-20	3

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 11

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	9.887	99	9.477	95	80-120	4	0-20	
c-1,3-Dichloropropene	ND	10.00	8.778	88	8.594	86	80-120	2	0-20	
t-1,3-Dichloropropene	ND	10.00	8.027	80	7.911	79	80-120	1	0-20	3
Ethylbenzene	ND	10.00	10.38	104	9.697	97	78-126	7	0-20	
2-Hexanone	ND	10.00	8.690	87	8.569	86	80-120	1	0-20	
Isopropylbenzene	ND	10.00	10.32	103	9.856	99	80-120	5	0-20	
p-Isopropyltoluene	ND	10.00	9.289	93	8.884	89	80-120	4	0-20	
Methylene Chloride	ND	10.00	10.73	107	10.28	103	80-120	4	0-20	
4-Methyl-2-Pentanone	ND	10.00	9.705	97	9.589	96	80-120	1	0-20	
Naphthalene	ND	10.00	11.57	116	11.42	114	80-120	1	0-20	
n-Propylbenzene	ND	10.00	10.22	102	9.657	97	80-120	6	0-20	
Styrene	ND	10.00	10.18	102	9.762	98	80-120	4	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	8.675	87	8.722	87	80-120	1	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.48	105	10.10	101	80-120	4	0-20	
Tetrachloroethene	ND	10.00	8.349	83	7.730	77	80-120	8	0-20	3
Toluene	ND	10.00	10.32	103	9.896	99	80-120	4	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.67	107	10.09	101	80-120	6	0-20	
1,2,4-Trichlorobenzene	ND	10.00	10.19	102	9.990	100	80-120	2	0-20	
1,1,1-Trichloroethane	ND	10.00	8.751	88	8.473	85	80-120	3	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	9.221	92	8.993	90	80-120	3	0-20	
1,1,2-Trichloroethane	ND	10.00	10.16	102	9.684	97	80-120	5	0-20	
Trichloroethene	0.5045	10.00	10.01	95	9.790	93	77-120	2	0-20	
Trichlorofluoromethane	ND	10.00	8.461	85	8.269	83	80-120	2	0-20	
1,2,3-Trichloropropane	ND	10.00	8.599	86	8.712	87	80-120	1	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.36	104	9.796	98	80-120	6	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.22	102	9.727	97	80-120	5	0-20	
Vinyl Acetate	ND	10.00	8.691	87	8.541	85	80-120	2	0-20	
Vinyl Chloride	ND	10.00	10.69	107	10.15	101	72-126	5	0-20	
p/m-Xylene	ND	20.00	21.43	107	19.91	100	80-120	7	0-20	
o-Xylene	ND	10.00	10.77	108	10.09	101	80-120	6	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.336	93	9.147	91	67-121	2	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	56.58	113	54.61	109	36-162	4	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	10.01	100	9.652	97	60-138	4	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.715	97	9.176	92	69-123	6	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.195	92	8.971	90	65-120	2	0-20	
Ethanol	ND	100.0	132.5	132	124.7	125	30-180	6	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0554-2	**Sample**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 01:31**	**140911S029**
14-09-0554-2	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 06:44**	**140911S029**
14-09-0554-2	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/12/14 07:13**	**140911S029**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.591	96	9.468	95	68-120	
Dibromofluoromethane	10.00	9.516	95	9.546	95	80-127	
1,2-Dichloroethane-d4	10.00	9.354	94	9.287	93	80-128	
Toluene-d8	10.00	9.903	99	9.966	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 9 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0659-2	**Sample**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 13:05**	**140912S001**
14-09-0659-2	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 16:54**	**140912S001**
14-09-0659-2	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 17:23**	**140912S001**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	11.36	114	11.77	118	80-120	4	0-20	
Benzene	0.7643	10.00	11.30	105	11.48	107	76-124	2	0-20	
Bromobenzene	ND	10.00	10.45	105	10.70	107	80-120	2	0-20	
Bromochloromethane	ND	10.00	10.18	102	10.19	102	80-120	0	0-20	
Bromodichloromethane	ND	10.00	9.310	93	9.984	100	80-120	7	0-20	
Bromoform	ND	10.00	7.810	78	8.810	88	80-120	12	0-20	3
Bromomethane	ND	10.00	12.11	121	12.64	126	80-120	4	0-20	3
2-Butanone	ND	10.00	11.85	118	14.24	142	80-120	18	0-20	3
n-Butylbenzene	ND	10.00	11.01	110	11.05	111	80-120	0	0-25	
sec-Butylbenzene	ND	10.00	11.20	112	11.44	114	80-120	2	0-20	
tert-Butylbenzene	ND	10.00	10.71	107	11.16	112	80-120	4	0-20	
Carbon Disulfide	ND	10.00	9.422	94	9.758	98	80-120	4	0-20	
Carbon Tetrachloride	ND	10.00	8.160	82	8.908	89	74-134	9	0-20	
Chlorobenzene	3.231	10.00	14.17	109	14.35	111	80-120	1	0-20	
Chloroethane	ND	10.00	9.945	99	10.38	104	80-120	4	0-20	
Chloroform	ND	10.00	10.07	101	10.36	104	80-120	3	0-20	
Chloromethane	ND	10.00	10.76	108	11.85	118	80-120	10	0-20	
2-Chlorotoluene	ND	10.00	11.13	111	11.35	114	80-120	2	0-20	
4-Chlorotoluene	ND	10.00	10.58	106	10.96	110	80-120	4	0-20	
Dibromochloromethane	ND	10.00	8.662	87	9.607	96	80-120	10	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	8.486	85	9.725	97	80-120	14	0-20	
1,2-Dibromoethane	ND	10.00	10.36	104	10.64	106	80-120	3	0-20	
Dibromomethane	ND	10.00	10.53	105	10.53	105	80-120	0	0-20	
1,2-Dichlorobenzene	ND	10.00	11.05	111	11.49	115	80-120	4	0-20	
1,3-Dichlorobenzene	ND	10.00	10.72	107	11.23	112	80-120	5	0-20	
1,4-Dichlorobenzene	ND	10.00	10.70	107	11.05	111	80-120	3	0-20	
Dichlorodifluoromethane	ND	10.00	10.68	107	11.32	113	80-120	6	0-20	
1,1-Dichloroethane	ND	10.00	10.15	101	10.48	105	80-120	3	0-20	
1,2-Dichloroethane	1.709	10.00	11.65	99	12.08	104	80-120	4	0-20	
1,1-Dichloroethene	ND	10.00	10.10	101	10.38	104	73-127	3	0-20	
c-1,2-Dichloroethene	ND	10.00	10.83	108	11.84	118	80-120	9	0-20	
t-1,2-Dichloroethene	ND	10.00	10.77	108	10.86	109	80-120	1	0-20	
1,2-Dichloropropane	ND	10.00	10.19	102	10.36	104	80-120	2	0-25	
1,3-Dichloropropane	ND	10.00	10.32	103	11.09	111	80-120	7	0-20	
2,2-Dichloropropane	ND	10.00	9.159	92	8.713	87	80-120	5	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 11

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	10.30	103	10.42	104	80-120	1	0-20	
c-1,3-Dichloropropene	ND	10.00	9.384	94	9.619	96	80-120	2	0-20	
t-1,3-Dichloropropene	ND	10.00	8.641	86	9.131	91	80-120	6	0-20	
Ethylbenzene	ND	10.00	10.69	107	10.81	108	78-126	1	0-20	
2-Hexanone	ND	10.00	8.923	89	10.83	108	80-120	19	0-20	
Isopropylbenzene	ND	10.00	10.74	107	10.96	110	80-120	2	0-20	
p-Isopropyltoluene	ND	10.00	9.415	94	9.717	97	80-120	3	0-20	
Methylene Chloride	ND	10.00	11.32	113	11.63	116	80-120	3	0-20	
4-Methyl-2-Pentanone	ND	10.00	9.148	91	11.66	117	80-120	24	0-20	4
Naphthalene	ND	10.00	10.54	105	11.60	116	80-120	10	0-20	
n-Propylbenzene	ND	10.00	10.97	110	11.01	110	80-120	0	0-20	
Styrene	ND	10.00	1.300	13	1.264	13	80-120	3	0-20	3
1,1,1,2-Tetrachloroethane	ND	10.00	8.803	88	9.422	94	80-120	7	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.52	105	11.86	119	80-120	12	0-20	
Tetrachloroethene	0.5970	10.00	9.295	87	9.251	87	80-120	0	0-20	
Toluene	ND	10.00	10.45	104	10.64	106	80-120	2	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.84	108	11.74	117	80-120	8	0-20	
1,2,4-Trichlorobenzene	ND	10.00	10.67	107	11.03	110	80-120	3	0-20	
1,1,1-Trichloroethane	ND	10.00	9.050	90	9.321	93	80-120	3	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	10.51	105	10.87	109	80-120	3	0-20	
1,1,2-Trichloroethane	ND	10.00	10.52	105	11.32	113	80-120	7	0-20	
Trichloroethene	ND	10.00	10.18	102	10.43	104	77-120	2	0-20	
Trichlorofluoromethane	ND	10.00	10.10	101	10.28	103	80-120	2	0-20	
1,2,3-Trichloropropane	ND	10.00	9.437	94	10.32	103	80-120	9	0-20	
1,2,4-Trimethylbenzene	ND	10.00	8.583	86	8.568	86	80-120	0	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.58	106	10.47	105	80-120	1	0-20	
Vinyl Acetate	ND	10.00	7.524	75	7.842	78	80-120	4	0-20	3
Vinyl Chloride	ND	10.00	11.07	111	11.68	117	72-126	5	0-20	
p/m-Xylene	ND	20.00	21.41	107	21.56	108	80-120	1	0-20	
o-Xylene	ND	10.00	10.66	107	10.88	109	80-120	2	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.237	92	9.861	99	67-121	7	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	60.56	121	55.81	112	36-162	8	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	10.20	102	10.76	108	60-138	5	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.360	94	9.948	99	69-123	6	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.053	91	9.708	97	65-120	7	0-20	
Ethanol	ND	100.0	127.0	127	129.8	130	30-180	2	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0659-2	**Sample**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 13:05**	**140912S001**
14-09-0659-2	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 16:54**	**140912S001**
14-09-0659-2	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 17:23**	**140912S001**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.955	100	9.910	99	68-120	
Dibromofluoromethane	10.00	9.780	98	9.894	99	80-127	
1,2-Dichloroethane-d4	10.00	10.02	100	10.54	105	80-128	
Toluene-d8	10.00	10.03	100	9.867	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-31	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/09/14 23:01**	**140909L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	24.98	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-080-37	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 12:23**	**140910L01**
099-15-080-37	**LCSD**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 12:43**	**140910L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	23.50	94	24.92	100	80-120	6	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-41	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 14:17**	**140917L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	24.14	97	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-66	**LCS**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 11:05**	**140911L002**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	18.79	188	80-120	73-127	X
Benzene	10.00	9.742	97	80-120	73-127	
Bromobenzene	10.00	9.761	98	80-120	73-127	
Bromochloromethane	10.00	9.478	95	80-120	73-127	
Bromodichloromethane	10.00	9.609	96	80-120	73-127	
Bromoform	10.00	7.950	80	80-120	73-127	
Bromomethane	10.00	10.72	107	80-120	73-127	
2-Butanone	10.00	14.03	140	80-120	73-127	X
n-Butylbenzene	10.00	9.941	99	77-123	69-131	
sec-Butylbenzene	10.00	10.02	100	80-120	73-127	
tert-Butylbenzene	10.00	9.900	99	80-120	73-127	
Carbon Disulfide	10.00	8.372	84	80-120	73-127	
Carbon Tetrachloride	10.00	8.945	89	74-134	64-144	
Chlorobenzene	10.00	10.21	102	80-120	73-127	
Chloroethane	10.00	8.999	90	80-120	73-127	
Chloroform	10.00	9.346	93	80-120	73-127	
Chloromethane	10.00	10.89	109	80-120	73-127	
2-Chlorotoluene	10.00	10.49	105	80-120	73-127	
4-Chlorotoluene	10.00	9.811	98	80-120	73-127	
Dibromochloromethane	10.00	8.998	90	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	8.740	87	80-120	73-127	
1,2-Dibromoethane	10.00	9.988	100	79-121	72-128	
Dibromomethane	10.00	9.885	99	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.17	102	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.09	101	80-120	73-127	
1,4-Dichlorobenzene	10.00	9.708	97	80-120	73-127	
Dichlorodifluoromethane	10.00	10.81	108	80-120	73-127	
1,1-Dichloroethane	10.00	9.224	92	80-120	73-127	
1,2-Dichloroethane	10.00	10.12	101	80-120	73-127	
1,1-Dichloroethene	10.00	9.491	95	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.65	106	80-120	73-127	
t-1,2-Dichloroethene	10.00	9.572	96	80-120	73-127	
1,2-Dichloropropane	10.00	9.229	92	79-115	73-121	
1,3-Dichloropropane	10.00	9.665	97	80-120	73-127	
2,2-Dichloropropane	10.00	9.732	97	80-120	73-127	
1,1-Dichloropropene	10.00	9.531	95	80-120	73-127	
c-1,3-Dichloropropene	10.00	9.192	92	80-120	73-127	
t-1,3-Dichloropropene	10.00	8.835	88	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 12

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	9.893	99	80-120	73-127	
2-Hexanone	10.00	12.78	128	80-120	73-127	X
Isopropylbenzene	10.00	10.16	102	80-120	73-127	
p-Isopropyltoluene	10.00	9.026	90	80-120	73-127	
Methylene Chloride	10.00	9.663	97	80-120	73-127	
4-Methyl-2-Pentanone	10.00	8.834	88	80-120	73-127	
Naphthalene	10.00	10.46	105	80-120	73-127	
n-Propylbenzene	10.00	10.21	102	80-120	73-127	
Styrene	10.00	10.07	101	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	9.040	90	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	9.493	95	80-120	73-127	
Tetrachloroethene	10.00	9.294	93	80-120	73-127	
Toluene	10.00	9.601	96	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	10.37	104	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	10.14	101	80-120	73-127	
1,1,1-Trichloroethane	10.00	9.303	93	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	9.642	96	80-120	73-127	
1,1,2-Trichloroethane	10.00	9.616	96	80-120	73-127	
Trichloroethene	10.00	9.385	94	79-127	71-135	
Trichlorofluoromethane	10.00	10.18	102	80-120	73-127	
1,2,3-Trichloropropane	10.00	8.959	90	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	9.822	98	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.35	103	80-120	73-127	
Vinyl Acetate	10.00	9.982	100	80-120	73-127	
Vinyl Chloride	10.00	10.67	107	72-132	62-142	
p/m-Xylene	20.00	20.15	101	80-120	73-127	
o-Xylene	10.00	10.28	103	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	8.738	87	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	53.82	108	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	9.645	96	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.058	91	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	8.874	89	70-120	62-128	
Ethanol	100.0	129.1	129	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 0
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 6 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-66	**LCS**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 11:05**	**140911L002**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.23	102	68-120	
Dibromofluoromethane	10.00	9.970	100	80-127	
1,2-Dichloroethane-d4	10.00	10.26	103	80-128	
Toluene-d8	10.00	9.859	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-68	**LCS**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 23:36**	**140911L039**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	9.807	98	80-120	73-127	
Benzene	10.00	10.24	102	80-120	73-127	
Bromobenzene	10.00	10.16	102	80-120	73-127	
Bromochloromethane	10.00	9.665	97	80-120	73-127	
Bromodichloromethane	10.00	9.824	98	80-120	73-127	
Bromoform	10.00	8.053	81	80-120	73-127	
Bromomethane	10.00	11.03	110	80-120	73-127	
2-Butanone	10.00	11.37	114	80-120	73-127	
n-Butylbenzene	10.00	9.790	98	77-123	69-131	
sec-Butylbenzene	10.00	9.983	100	80-120	73-127	
tert-Butylbenzene	10.00	9.922	99	80-120	73-127	
Carbon Disulfide	10.00	8.563	86	80-120	73-127	
Carbon Tetrachloride	10.00	8.449	84	74-134	64-144	
Chlorobenzene	10.00	10.49	105	80-120	73-127	
Chloroethane	10.00	9.674	97	80-120	73-127	
Chloroform	10.00	9.397	94	80-120	73-127	
Chloromethane	10.00	10.81	108	80-120	73-127	
2-Chlorotoluene	10.00	10.79	108	80-120	73-127	
4-Chlorotoluene	10.00	10.03	100	80-120	73-127	
Dibromochloromethane	10.00	9.191	92	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	9.445	94	80-120	73-127	
1,2-Dibromoethane	10.00	10.20	102	79-121	72-128	
Dibromomethane	10.00	10.15	102	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.20	102	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.16	102	80-120	73-127	
1,4-Dichlorobenzene	10.00	9.835	98	80-120	73-127	
Dichlorodifluoromethane	10.00	10.33	103	80-120	73-127	
1,1-Dichloroethane	10.00	9.451	95	80-120	73-127	
1,2-Dichloroethane	10.00	10.39	104	80-120	73-127	
1,1-Dichloroethene	10.00	9.624	96	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.85	108	80-120	73-127	
t-1,2-Dichloroethene	10.00	10.01	100	80-120	73-127	
1,2-Dichloropropane	10.00	9.715	97	79-115	73-121	
1,3-Dichloropropane	10.00	10.43	104	80-120	73-127	
2,2-Dichloropropane	10.00	8.103	81	80-120	73-127	
1,1-Dichloropropene	10.00	9.614	96	80-120	73-127	
c-1,3-Dichloropropene	10.00	9.245	92	80-120	73-127	
t-1,3-Dichloropropene	10.00	8.837	88	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 12

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	10.16	102	80-120	73-127	
2-Hexanone	10.00	10.46	105	80-120	73-127	
Isopropylbenzene	10.00	10.47	105	80-120	73-127	
p-Isopropyltoluene	10.00	8.933	89	80-120	73-127	
Methylene Chloride	10.00	10.23	102	80-120	73-127	
4-Methyl-2-Pentanone	10.00	10.26	103	80-120	73-127	
Naphthalene	10.00	11.09	111	80-120	73-127	
n-Propylbenzene	10.00	10.38	104	80-120	73-127	
Styrene	10.00	10.41	104	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	9.257	93	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	10.49	105	80-120	73-127	
Tetrachloroethene	10.00	9.077	91	80-120	73-127	
Toluene	10.00	9.861	99	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	10.70	107	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	10.17	102	80-120	73-127	
1,1,1-Trichloroethane	10.00	8.939	89	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	9.528	95	80-120	73-127	
1,1,2-Trichloroethane	10.00	10.70	107	80-120	73-127	
Trichloroethene	10.00	9.616	96	79-127	71-135	
Trichlorofluoromethane	10.00	9.568	96	80-120	73-127	
1,2,3-Trichloropropane	10.00	9.932	99	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	9.884	99	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.59	106	80-120	73-127	
Vinyl Acetate	10.00	10.62	106	80-120	73-127	
Vinyl Chloride	10.00	10.66	107	72-132	62-142	
p/m-Xylene	20.00	20.78	104	80-120	73-127	
o-Xylene	10.00	10.55	105	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	9.321	93	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	52.82	106	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	9.933	99	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.148	91	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	9.106	91	70-120	62-128	
Ethanol	100.0	135.3	135	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 0
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 9 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-68	**LCS**	**Aqueous**	**GC/MS L**	**09/11/14**	**09/11/14 23:36**	**140911L039**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.28	103	68-120	
Dibromofluoromethane	10.00	9.804	98	80-127	
1,2-Dichloroethane-d4	10.00	10.51	105	80-128	
Toluene-d8	10.00	9.857	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-69	**LCS**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 10:57**	**140912L003**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	18.64	186	80-120	73-127	X
Benzene	10.00	10.28	103	80-120	73-127	
Bromobenzene	10.00	10.56	106	80-120	73-127	
Bromochloromethane	10.00	9.942	99	80-120	73-127	
Bromodichloromethane	10.00	9.411	94	80-120	73-127	
Bromoform	10.00	8.250	82	80-120	73-127	
Bromomethane	10.00	12.02	120	80-120	73-127	
2-Butanone	10.00	15.23	152	80-120	73-127	X
n-Butylbenzene	10.00	10.77	108	77-123	69-131	
sec-Butylbenzene	10.00	10.87	109	80-120	73-127	
tert-Butylbenzene	10.00	10.80	108	80-120	73-127	
Carbon Disulfide	10.00	9.017	90	80-120	73-127	
Carbon Tetrachloride	10.00	8.532	85	74-134	64-144	
Chlorobenzene	10.00	10.57	106	80-120	73-127	
Chloroethane	10.00	9.532	95	80-120	73-127	
Chloroform	10.00	9.718	97	80-120	73-127	
Chloromethane	10.00	11.09	111	80-120	73-127	
2-Chlorotoluene	10.00	10.99	110	80-120	73-127	
4-Chlorotoluene	10.00	10.45	104	80-120	73-127	
Dibromochloromethane	10.00	9.296	93	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	9.291	93	80-120	73-127	
1,2-Dibromoethane	10.00	10.27	103	79-121	72-128	
Dibromomethane	10.00	10.08	101	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.87	109	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.84	108	80-120	73-127	
1,4-Dichlorobenzene	10.00	10.30	103	80-120	73-127	
Dichlorodifluoromethane	10.00	11.30	113	80-120	73-127	
1,1-Dichloroethane	10.00	9.784	98	80-120	73-127	
1,2-Dichloroethane	10.00	9.982	100	80-120	73-127	
1,1-Dichloroethene	10.00	9.990	100	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.21	102	80-120	73-127	
t-1,2-Dichloroethene	10.00	10.16	102	80-120	73-127	
1,2-Dichloropropane	10.00	9.476	95	79-115	73-121	
1,3-Dichloropropane	10.00	10.14	101	80-120	73-127	
2,2-Dichloropropane	10.00	9.661	97	80-120	73-127	
1,1-Dichloropropene	10.00	9.900	99	80-120	73-127	
c-1,3-Dichloropropene	10.00	9.284	93	80-120	73-127	
t-1,3-Dichloropropene	10.00	8.950	90	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 12

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	10.37	104	80-120	73-127	
2-Hexanone	10.00	12.40	124	80-120	73-127	ME
Isopropylbenzene	10.00	10.67	107	80-120	73-127	
p-Isopropyltoluene	10.00	9.704	97	80-120	73-127	
Methylene Chloride	10.00	10.47	105	80-120	73-127	
4-Methyl-2-Pentanone	10.00	9.443	94	80-120	73-127	
Naphthalene	10.00	11.13	111	80-120	73-127	
n-Propylbenzene	10.00	10.75	107	80-120	73-127	
Styrene	10.00	10.66	107	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	9.106	91	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	10.62	106	80-120	73-127	
Tetrachloroethene	10.00	9.700	97	80-120	73-127	
Toluene	10.00	10.11	101	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	11.01	110	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	10.78	108	80-120	73-127	
1,1,1-Trichloroethane	10.00	9.183	92	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	10.01	100	80-120	73-127	
1,1,2-Trichloroethane	10.00	10.37	104	80-120	73-127	
Trichloroethene	10.00	9.788	98	79-127	71-135	
Trichlorofluoromethane	10.00	10.07	101	80-120	73-127	
1,2,3-Trichloropropane	10.00	9.914	99	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.34	103	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.90	109	80-120	73-127	
Vinyl Acetate	10.00	10.31	103	80-120	73-127	
Vinyl Chloride	10.00	11.21	112	72-132	62-142	
p/m-Xylene	20.00	21.28	106	80-120	73-127	
o-Xylene	10.00	10.75	108	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	8.965	90	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	49.70	99	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	10.14	101	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.154	92	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	9.067	91	70-120	62-128	
Ethanol	100.0	140.4	140	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 1
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/08/14
3995 Via Oro Ave		Work Order:	14-09-0556
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 12 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-69	**LCS**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 10:57**	**140912L003**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.21	102	68-120	
Dibromofluoromethane	10.00	9.805	98	80-127	
1,2-Dichloroethane-d4	10.00	10.11	101	80-128	
Toluene-d8	10.00	9.699	97	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-0556

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0 (M) pCBSA	N/A	811	IC 8	1
EPA 8260B	EPA 5030C	316	GC/MS L	2

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Glossary of Terms and Qualifiers

Work Order: 14-09-0556 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AECOM

Chain-of-Custody Record

14-09-0556

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00008
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL4
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/8/2014
Page: 1 of 1

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
01	TB-20140908	9/8/2014	0830	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
02	EB-20140908	9/8/2014	1420	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
02	EB-20140908	9/8/2014	1420	W	125 mL P	≤6° C	None		1		X	
03	BF-30-20140908	9/8/2014	0918	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
03	BF-30-20140908	9/8/2014	0918	W	125 mL P	≤6° C	None		1		X	
04	MW-10-20140908	9/8/2014	1213	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
04	MW-10-20140908	9/8/2014	1213	W	125 mL P	≤6° C	None		1		X	
05	BF-23-20140908	9/8/2014	1010	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
05	BF-23-20140908	9/8/2014	1010	W	125 mL P	≤6° C	None		1		X	
06	MW-5-20140908	9/8/2014	1318	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
06	MW-5-20140908	9/8/2014	1318	W	125 mL P	≤6° C	None		1		X	
07	G-12-20140908	9/8/2014	1041	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
07	G-12-20140908	9/8/2014	1041	W	125 mL P	≤6° C	None		1		X	
08	BF-3-20140908	9/8/8014	1353	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
08	BF-3-20140908	9/8/8014	1353	W	125 mL P	≤6° C	None		1		X	

Relinquished By	Date	Received By	Date
Signature: [illegible]	9-8-14	Signature: [illegible]	9/8/14
Printed: K. Carr Green	Time: 17:05	Printed: Amy Marquez	Time: 1705
Company: AECOM		Company: ECL	
Reason:			

Relinquished By	Date	Received By	Date
Signature: [illegible]	9/8/14	Signature: [illegible]	9/8/14
Printed: Amy Marquez	Time: 1800	Printed: Yanliao	Time: 1800
Company: ECL		Company: ECL	
Reason:			

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Comments:
Shipment summary: 8 samples, 1 cooler, 1 COC page. TAT Type: 1 Week.
Multiple Dilutions

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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WORK ORDER #: 14-09-0556

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AECOM

DATE: 09/8/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.1 °C - 0.3 °C (CF) = 2.8 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 678

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: 678

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 920

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOA**h** (4) ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☑125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 14082813 **Labeled/Checked by:** 920

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 081

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 081

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WORK ORDER NUMBER: 14-09-0658

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AECOM

Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02

Attention: Katharine Carr Green
3995 Via Oro Ave
Long Beach, CA 90810-1869

Vikas Patel

Approved for release on 09/22/2014 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Narrative

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/09/14. They were assigned to Work Order 14-09-0658.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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CASE NARRATIVE

Eurofins Calscience Work Order 14-09-0658

EPA Method 8260B Volatile Organics:

Bromoform failed low in the LCS and MS/MSD for batches 140912L051/140912S028 and 140915L003/140915S002.

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QC Association Summary

Work Order: 14-09-0658

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
TB-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S028	140912L051
EB-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
EB-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S028	140912L051
MW-19-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
MW-19-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S028	140912L051
MW-22-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
MW-22-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S028	140912L051
MW-22-20140909	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140915S002	140915L003
MW-16-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
MW-16-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S028	140912L051
MW-16-20140909	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140915S002	140915L003
G-25-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
G-25-20140909	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140911L01A
G-25-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S028	140912L051
G-25-20140909	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140915S002	140915L003
BF-5-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
BF-5-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140915S002	140915L003
MW-6-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
MW-6-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140915S002	140915L003
MW-6-20140909	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140915S002	140915L003
G-4-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
G-4-20140909	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140911L01A
G-4-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140915S002	140915L003
G-8-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
G-8-20140909	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140911L01A
G-8-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140915S002	140915L003
G-8-20140909	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140912S028	140912L051
G-3-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
G-3-20140909	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140911L01A
G-3-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140915S002	140915L003
MW-11-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
MW-11-20140909	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140911L01A
MW-11-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140915S002	140915L003
MW-11-20140909	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140912S028	140912L051
G-1-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
G-1-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140916S034	140916L025
G-100-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
G-100-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140916S034	140916L025
G-02WC-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140917S01	140917L01
G-02WC-20140909	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140917S01	140917L01
MW-12-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
MW-12-20140909	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140911L01A
MW-12-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140916S034	140916L025
MW-12-20140909	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140916S034	140916L025

1 = Dilution analysis performed, no associated matrix QC

R = Rerun

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QC Association Summary

Work Order: 14-09-0658

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
BF-11-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
BF-11-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140916S034	140916L025
MW-4-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
MW-4-20140909	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140911L01A
MW-4-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140916S034	140916L025
MW-4-20140909	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140916S034	140916L025
BF-4-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
BF-4-20140909	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140911L01A
BF-4-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140916S034	140916L025
BF-4-20140909	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140916S034	140916L025

1 = Dilution analysis performed, no associated matrix QC

R = Rerun

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0658
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/09/14
Attn:	Katharine Carr Green		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
EB-20140909 (14-09-0658-2)						
Methylene Chloride	0.53	J	0.38*	ug/L	EPA 8260B	EPA 5030C
MW-19-20140909 (14-09-0658-3)						
p-Chlorobenzenesulfonic Acid	40		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
Chloroform	21		0.50	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	0.30	J	0.22*	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	3.9		0.50	ug/L	EPA 8260B	EPA 5030C
MW-22-20140909 (14-09-0658-4)						
Carbon Tetrachloride	0.98		0.50	ug/L	EPA 8260B	EPA 5030C
Chloroform	18		0.50	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	0.31	J	0.20*	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	0.32	J	0.22*	ug/L	EPA 8260B	EPA 5030C
1,1,2-Trichloroethane	67	E	0.50	ug/L	EPA 8260B	EPA 5030C
1,1,2-Trichloroethane	68		2.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	2.0		0.50	ug/L	EPA 8260B	EPA 5030C
1,2,3-Trichloropropane	0.75	J	0.25*	ug/L	EPA 8260B	EPA 5030C
MW-16-20140909 (14-09-0658-5)						
Chloroform	5.2		0.50	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	0.35	J	0.20*	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	17		0.50	ug/L	EPA 8260B	EPA 5030C
t-1,2-Dichloroethene	1.1		0.50	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	13		0.50	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	280	E	0.50	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	300		10	ug/L	EPA 8260B	EPA 5030C
G-25-20140909 (14-09-0658-6)						
p-Chlorobenzenesulfonic Acid	1500	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	1200		100	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	44	E	0.50	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	40		1.0	ug/L	EPA 8260B	EPA 5030C
1,4-Dichlorobenzene	0.38	J	0.31*	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	7.1		0.50	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	0.69		0.50	ug/L	EPA 8260B	EPA 5030C
BF-5-20140909 (14-09-0658-7)						
Chlorobenzene	0.19	J	0.14*	ug/L	EPA 8260B	EPA 5030C

* MDL is shown

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0658
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/09/14
Attn:	Katharine Carr Green		Page 2 of 4

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
MW-6-20140909 (14-09-0658-8)						
p-Chlorobenzenesulfonic Acid	3.2	J	0.92*	ug/L	EPA 314.0 (M) pCBSA	N/A
Carbon Tetrachloride	19	J	8.6*	ug/L	EPA 8260B	EPA 5030C
Chloroform	710		20	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethane	15	J	7.6*	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	36		20	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	35		20	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	6300	E	20	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	6100		500	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	200		20	ug/L	EPA 8260B	EPA 5030C
G-4-20140909 (14-09-0658-9)						
p-Chlorobenzenesulfonic Acid	1100	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	820		100	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	39		0.50	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	9.4		0.50	ug/L	EPA 8260B	EPA 5030C
t-1,2-Dichloroethene	0.39	J	0.26*	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	11		0.50	ug/L	EPA 8260B	EPA 5030C
G-8-20140909 (14-09-0658-10)						
p-Chlorobenzenesulfonic Acid	6200	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	4200		500	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	100	E	0.50	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	100		20	ug/L	EPA 8260B	EPA 5030C
G-3-20140909 (14-09-0658-11)						
p-Chlorobenzenesulfonic Acid	150	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	150		10	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	32		0.50	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	1.2		0.50	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	0.37	J	0.23*	ug/L	EPA 8260B	EPA 5030C
Tert-Butyl Alcohol (TBA)	9.3	J	4.1*	ug/L	EPA 8260B	EPA 5030C
MW-11-20140909 (14-09-0658-12)						
p-Chlorobenzenesulfonic Acid	280	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	240		25	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	0.66	J	0.65*	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	340	E	1.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	320		25	ug/L	EPA 8260B	EPA 5030C
Chloroform	0.46	J	0.43*	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	14		1.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	1.1		1.0	ug/L	EPA 8260B	EPA 5030C

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0658
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/09/14
Attn:	Katharine Carr Green		Page 3 of 4

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
G-1-20140909 (14-09-0658-13)						
p-Chlorobenzenesulfonic Acid	79		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
Acetone	3.7	J	3.5*	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	7.6		0.50	ug/L	EPA 8260B	EPA 5030C
G-100-20140909 (14-09-0658-14)						
p-Chlorobenzenesulfonic Acid	91		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	7.9		0.50	ug/L	EPA 8260B	EPA 5030C
G-02WC-20140909 (14-09-0658-15)						
p-Chlorobenzenesulfonic Acid	2600	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	1900		200	ug/L	EPA 314.0 (M) pCBSA	N/A
MW-12-20140909 (14-09-0658-16)						
p-Chlorobenzenesulfonic Acid	140	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	130		10	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	4.7		2.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	680	E	2.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	650		20	ug/L	EPA 8260B	EPA 5030C
1,4-Dichlorobenzene	1.7	J	1.2*	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	15		2.0	ug/L	EPA 8260B	EPA 5030C
BF-11-20140909 (14-09-0658-17)						
p-Chlorobenzenesulfonic Acid	7.0		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	6.1		0.50	ug/L	EPA 8260B	EPA 5030C
MW-4-20140909 (14-09-0658-18)						
p-Chlorobenzenesulfonic Acid	1500	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	1200		100	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	1000	E	10	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	960		100	ug/L	EPA 8260B	EPA 5030C
Chloroform	3500	E	10	ug/L	EPA 8260B	EPA 5030C
Chloroform	3200		100	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	17		10	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	94		10	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	510		10	ug/L	EPA 8260B	EPA 5030C

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0658
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/09/14
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Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
BF-4-20140909 (14-09-0658-19)						
p-Chlorobenzenesulfonic Acid	24000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	17000		2500	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	1.1		1.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	470	E	1.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	550		10	ug/L	EPA 8260B	EPA 5030C
Chloroform	1.4		1.0	ug/L	EPA 8260B	EPA 5030C
1,4-Dichlorobenzene	0.81	J	0.62*	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	0.47	J	0.43*	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	2.5		1.0	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140909	**14-09-0658-2-D**	**09/09/14 12:00**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 16:35**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

MW-19-20140909	**14-09-0658-3-E**	**09/09/14 09:04**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 16:55**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	40	5.0	0.46	1.00	

MW-22-20140909	**14-09-0658-4-E**	**09/09/14 13:38**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 17:14**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

MW-16-20140909	**14-09-0658-5-E**	**09/09/14 11:35**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 17:34**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

G-25-20140909	**14-09-0658-6-E**	**09/09/14 10:00**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 17:53**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	1500	5.0	0.46	1.00	E

G-25-20140909	**14-09-0658-6-E**	**09/09/14 10:00**	**Aqueous**	**IC 8**	**N/A**	**09/11/14 13:20**	**140911L01A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	1200	100	9.2	20.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-5-20140909	**14-09-0658-7-E**	**09/09/14 11:37**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 18:13**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

MW-6-20140909	**14-09-0658-8-E**	**09/09/14 15:36**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 18:32**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	3.2	10	0.92	2.00	J

G-4-20140909	**14-09-0658-9-E**	**09/09/14 10:48**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 18:51**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	1100	5.0	0.46	1.00	E

G-4-20140909	**14-09-0658-9-E**	**09/09/14 10:48**	**Aqueous**	**IC 8**	**N/A**	**09/11/14 13:40**	**140911L01A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	820	100	9.2	20.0	

G-8-20140909	**14-09-0658-10-E**	**09/09/14 14:15**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 19:11**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	6200	5.0	0.46	1.00	E

G-8-20140909	**14-09-0658-10-E**	**09/09/14 14:15**	**Aqueous**	**IC 8**	**N/A**	**09/11/14 13:59**	**140911L01A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	4200	500	46	100	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-3-20140909	**14-09-0658-11-E**	**09/09/14 13:27**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 19:30**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	150	5.0	0.46	1.00	E

G-3-20140909	**14-09-0658-11-E**	**09/09/14 13:27**	**Aqueous**	**IC 8**	**N/A**	**09/11/14 14:18**	**140911L01A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	150	10	0.92	2.00	

MW-11-20140909	**14-09-0658-12-E**	**09/09/14 12:29**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 21:27**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	280	5.0	0.46	1.00	E

MW-11-20140909	**14-09-0658-12-E**	**09/09/14 12:29**	**Aqueous**	**IC 8**	**N/A**	**09/11/14 14:38**	**140911L01A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	240	25	2.3	5.00	

G-1-20140909	**14-09-0658-13-E**	**09/09/14 11:06**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 21:46**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	79	5.0	0.46	1.00	

G-100-20140909	**14-09-0658-14-E**	**09/09/14 11:06**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 22:05**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	91	5.0	0.46	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-02WC-20140909	**14-09-0658-15-A**	**09/09/14 14:35**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 17:31**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	2600	5.0	0.46	1.00	E

G-02WC-20140909	**14-09-0658-15-A**	**09/09/14 14:35**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 18:41**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	1900	200	18	40.0	

MW-12-20140909	**14-09-0658-16-E**	**09/09/14 11:12**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 22:25**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	140	5.0	0.46	1.00	E

MW-12-20140909	**14-09-0658-16-E**	**09/09/14 11:12**	**Aqueous**	**IC 8**	**N/A**	**09/11/14 14:57**	**140911L01A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	130	10	0.92	2.00	

BF-11-20140909	**14-09-0658-17-E**	**09/09/14 08:09**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 22:44**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	7.0	5.0	0.46	1.00	

MW-4-20140909	**14-09-0658-18-E**	**09/09/14 15:09**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 23:04**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	1500	5.0	0.46	1.00	E

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4-20140909	**14-09-0658-18-E**	**09/09/14 15:09**	**Aqueous**	**IC 8**	**N/A**	**09/11/14 15:36**	**140911L01A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	1200	100	9.2	20.0	

BF-4-20140909	**14-09-0658-19-E**	**09/09/14 15:28**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 23:23**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	24000	5.0	0.46	1.00	E

BF-4-20140909	**14-09-0658-19-E**	**09/09/14 15:28**	**Aqueous**	**IC 8**	**N/A**	**09/11/14 15:56**	**140911L01A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	17000	2500	230	500	

Method Blank	**099-15-080-38**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 15:57**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

Method Blank	**099-15-080-40**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/11/14 11:31**	**140911L01A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

Method Blank	**099-15-080-41**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 13:58**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-20140909	**14-09-0658-1-C**	**09/09/14 07:30**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 00:59**	**140912L051**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/09/14
3995 Via Oro Ave	Work Order:	14-09-0658
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 3 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	68-120	
Dibromofluoromethane	95	80-127	
1,2-Dichloroethane-d4	94	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140909	**14-09-0658-2-C**	**09/09/14 12:00**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 01:27**	**140912L051**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	0.53	1.0	0.38	1.00	J
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/09/14
3995 Via Oro Ave	Work Order:	14-09-0658
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 6 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	95	80-127	
1,2-Dichloroethane-d4	98	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-19-20140909	**14-09-0658-3-D**	**09/09/14 09:04**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 01:55**	**140912L051**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	21	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	0.30	0.50	0.22	1.00	J
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	3.9	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/09/14
3995 Via Oro Ave	Work Order:	14-09-0658
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 9 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	98	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-22-20140909	**14-09-0658-4-D**	**09/09/14 13:38**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 02:24**	**140912L051**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	0.98	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	18	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	0.31	0.50	0.20	1.00	J
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	0.32	0.50	0.22	1.00	J
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	67	0.50	0.32	1.00	E
Trichloroethene	2.0	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	0.75	1.0	0.25	1.00	J
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 12 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	68-120	
Dibromofluoromethane	94	80-127	
1,2-Dichloroethane-d4	99	80-128	
Toluene-d8	102	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-22-20140909	**14-09-0658-4-C**	**09/09/14 13:38**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 16:31**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
1,1,2-Trichloroethane	68	2.0	1.3	4.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	103	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 13 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-16-20140909	**14-09-0658-5-D**	**09/09/14 11:35**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 02:52**	**140912L051**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	5.2	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	0.35	0.50	0.20	1.00	J
c-1,2-Dichloroethene	17	0.50	0.24	1.00	
t-1,2-Dichloroethene	1.1	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 14 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	13	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	280	0.50	0.23	1.00	E
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 15 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	68-120	
Dibromofluoromethane	97	80-127	
1,2-Dichloroethane-d4	101	80-128	
Toluene-d8	103	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-16-20140909	**14-09-0658-5-C**	**09/09/14 11:35**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 16:59**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Trichloroethene	300	10	4.6	20.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	105	80-127	
1,2-Dichloroethane-d4	103	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 16 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-25-20140909	**14-09-0658-6-D**	**09/09/14 10:00**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 03:21**	**140912L051**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	44	0.50	0.14	1.00	E
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	0.38	0.50	0.31	1.00	J
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	7.1	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 17 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	0.69	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 18 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	100	80-128	
Toluene-d8	105	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-25-20140909	**14-09-0658-6-C**	**09/09/14 10:00**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 17:28**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	40	1.0	0.29	2.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	108	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 19 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-5-20140909	**14-09-0658-7-C**	**09/09/14 11:37**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 17:56**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	0.19	0.50	0.14	1.00	J
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 20 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/09/14
3995 Via Oro Ave	Work Order:	14-09-0658
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 21 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	105	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 22 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6-20140909	**14-09-0658-8-C**	**09/09/14 15:36**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 18:25**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	400	140	40.0	
Benzene	ND	20	13	40.0	
Bromobenzene	ND	20	13	40.0	
Bromochloromethane	ND	40	15	40.0	
Bromodichloromethane	ND	20	7.8	40.0	
Bromoform	ND	20	13	40.0	
Bromomethane	ND	40	15	40.0	
2-Butanone	ND	200	120	40.0	
n-Butylbenzene	ND	20	14	40.0	
sec-Butylbenzene	ND	20	9.1	40.0	
tert-Butylbenzene	ND	20	15	40.0	
Carbon Disulfide	ND	40	18	40.0	
Carbon Tetrachloride	19	20	8.6	40.0	J
Chlorobenzene	ND	20	5.8	40.0	
Chloroethane	ND	20	14	40.0	
Chloroform	710	20	8.6	40.0	
Chloromethane	ND	20	8.6	40.0	
2-Chlorotoluene	ND	20	14	40.0	
4-Chlorotoluene	ND	20	13	40.0	
Dibromochloromethane	ND	20	9.4	40.0	
1,2-Dibromo-3-Chloropropane	ND	200	120	40.0	
1,2-Dibromoethane	ND	20	13	40.0	
Dibromomethane	ND	20	14	40.0	
1,2-Dichlorobenzene	ND	20	6.8	40.0	
1,3-Dichlorobenzene	ND	20	6.8	40.0	
1,4-Dichlorobenzene	ND	20	12	40.0	
Dichlorodifluoromethane	ND	40	9.4	40.0	
1,1-Dichloroethane	15	20	7.6	40.0	J
1,2-Dichloroethane	ND	20	7.4	40.0	
1,1-Dichloroethene	36	20	8.0	40.0	
c-1,2-Dichloroethene	35	20	9.8	40.0	
t-1,2-Dichloroethene	ND	20	10	40.0	
1,2-Dichloropropane	ND	20	9.6	40.0	
1,3-Dichloropropane	ND	40	9.6	40.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 23 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	40	17	40.0	
1,1-Dichloropropene	ND	20	11	40.0	
c-1,3-Dichloropropene	ND	20	7.4	40.0	
t-1,3-Dichloropropene	ND	20	14	40.0	
Ethylbenzene	ND	20	13	40.0	
2-Hexanone	ND	400	100	40.0	
Isopropylbenzene	ND	20	17	40.0	
p-Isopropyltoluene	ND	20	5.4	40.0	
Methylene Chloride	ND	40	15	40.0	
4-Methyl-2-Pentanone	ND	200	110	40.0	
Naphthalene	ND	40	16	40.0	
n-Propylbenzene	ND	20	15	40.0	
Styrene	ND	20	13	40.0	
1,1,1,2-Tetrachloroethane	ND	20	9.4	40.0	
1,1,2,2-Tetrachloroethane	ND	20	8.8	40.0	
Tetrachloroethene	6300	20	8.6	40.0	E
Toluene	ND	20	11	40.0	
1,2,3-Trichlorobenzene	ND	20	10	40.0	
1,2,4-Trichlorobenzene	ND	20	10	40.0	
1,1,1-Trichloroethane	ND	20	7.6	40.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	20	10	40.0	
1,1,2-Trichloroethane	ND	20	13	40.0	
Trichloroethene	200	20	9.2	40.0	
Trichlorofluoromethane	ND	20	10	40.0	
1,2,3-Trichloropropane	ND	40	10	40.0	
1,2,4-Trimethylbenzene	ND	20	6.0	40.0	
1,3,5-Trimethylbenzene	ND	20	13	40.0	
Vinyl Acetate	ND	200	90	40.0	
Vinyl Chloride	ND	20	11	40.0	
p/m-Xylene	ND	20	9.4	40.0	
o-Xylene	ND	20	16	40.0	
Methyl-t-Butyl Ether (MTBE)	ND	20	12	40.0	
Tert-Butyl Alcohol (TBA)	ND	400	160	40.0	
Diisopropyl Ether (DIPE)	ND	20	9.4	40.0	
Ethyl-t-Butyl Ether (ETBE)	ND	20	8.6	40.0	
Tert-Amyl-Methyl Ether (TAME)	ND	20	9.4	40.0	
Ethanol	ND	2000	690	40.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 24 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	105	80-127	
1,2-Dichloroethane-d4	106	80-128	
Toluene-d8	100	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6-20140909	**14-09-0658-8-C**	**09/09/14 15:36**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 18:54**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Tetrachloroethene	6100	500	220	1000	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	107	80-127	
1,2-Dichloroethane-d4	109	80-128	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 25 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-4-20140909	**14-09-0658-9-C**	**09/09/14 10:48**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 19:22**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	39	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	9.4	0.50	0.24	1.00	
t-1,2-Dichloroethene	0.39	0.50	0.26	1.00	J
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 26 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	11	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/09/14
3995 Via Oro Ave	Work Order:	14-09-0658
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 27 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	112	80-127	
1,2-Dichloroethane-d4	111	80-128	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 28 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-8-20140909	**14-09-0658-10-C**	**09/09/14 14:15**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 19:51**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	100	0.50	0.14	1.00	E
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 29 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 30 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	108	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	101	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-8-20140909	**14-09-0658-10-D**	**09/09/14 14:15**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 05:14**	**140912L051**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	100	20	5.8	40.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	102	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 31 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-3-20140909	**14-09-0658-11-B**	**09/09/14 13:27**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 20:48**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	32	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 32 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	1.2	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	0.37	0.50	0.23	1.00	J
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	9.3	10	4.1	1.00	J
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/09/14
3995 Via Oro Ave	Work Order:	14-09-0658
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 33 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	106	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 34 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11-20140909	**14-09-0658-12-C**	**09/09/14 12:29**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 21:16**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	7.1	2.00	
Benzene	0.66	1.0	0.65	2.00	J
Bromobenzene	ND	1.0	0.66	2.00	
Bromochloromethane	ND	2.0	0.76	2.00	
Bromodichloromethane	ND	1.0	0.39	2.00	
Bromoform	ND	1.0	0.67	2.00	
Bromomethane	ND	2.0	0.76	2.00	
2-Butanone	ND	10	5.8	2.00	
n-Butylbenzene	ND	1.0	0.68	2.00	
sec-Butylbenzene	ND	1.0	0.45	2.00	
tert-Butylbenzene	ND	1.0	0.76	2.00	
Carbon Disulfide	ND	2.0	0.88	2.00	
Carbon Tetrachloride	ND	1.0	0.43	2.00	
Chlorobenzene	340	1.0	0.29	2.00	E
Chloroethane	ND	1.0	0.68	2.00	
Chloroform	0.46	1.0	0.43	2.00	J
Chloromethane	ND	1.0	0.43	2.00	
2-Chlorotoluene	ND	1.0	0.68	2.00	
4-Chlorotoluene	ND	1.0	0.66	2.00	
Dibromochloromethane	ND	1.0	0.47	2.00	
1,2-Dibromo-3-Chloropropane	ND	10	5.8	2.00	
1,2-Dibromoethane	ND	1.0	0.67	2.00	
Dibromomethane	ND	1.0	0.69	2.00	
1,2-Dichlorobenzene	ND	1.0	0.34	2.00	
1,3-Dichlorobenzene	ND	1.0	0.34	2.00	
1,4-Dichlorobenzene	ND	1.0	0.62	2.00	
Dichlorodifluoromethane	ND	2.0	0.47	2.00	
1,1-Dichloroethane	ND	1.0	0.38	2.00	
1,2-Dichloroethane	ND	1.0	0.37	2.00	
1,1-Dichloroethene	ND	1.0	0.40	2.00	
c-1,2-Dichloroethene	ND	1.0	0.49	2.00	
t-1,2-Dichloroethene	ND	1.0	0.52	2.00	
1,2-Dichloropropane	ND	1.0	0.48	2.00	
1,3-Dichloropropane	ND	2.0	0.48	2.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 35 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	2.0	0.85	2.00	
1,1-Dichloropropene	ND	1.0	0.56	2.00	
c-1,3-Dichloropropene	ND	1.0	0.37	2.00	
t-1,3-Dichloropropene	ND	1.0	0.70	2.00	
Ethylbenzene	ND	1.0	0.63	2.00	
2-Hexanone	ND	20	5.2	2.00	
Isopropylbenzene	ND	1.0	0.83	2.00	
p-Isopropyltoluene	ND	1.0	0.27	2.00	
Methylene Chloride	ND	2.0	0.77	2.00	
4-Methyl-2-Pentanone	ND	10	5.4	2.00	
Naphthalene	ND	2.0	0.81	2.00	
n-Propylbenzene	ND	1.0	0.76	2.00	
Styrene	ND	1.0	0.65	2.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.47	2.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.44	2.00	
Tetrachloroethene	14	1.0	0.43	2.00	
Toluene	ND	1.0	0.53	2.00	
1,2,3-Trichlorobenzene	ND	1.0	0.50	2.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	2.00	
1,1,1-Trichloroethane	ND	1.0	0.38	2.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.0	0.51	2.00	
1,1,2-Trichloroethane	ND	1.0	0.65	2.00	
Trichloroethene	1.1	1.0	0.46	2.00	
Trichlorofluoromethane	ND	1.0	0.50	2.00	
1,2,3-Trichloropropane	ND	2.0	0.50	2.00	
1,2,4-Trimethylbenzene	ND	1.0	0.30	2.00	
1,3,5-Trimethylbenzene	ND	1.0	0.66	2.00	
Vinyl Acetate	ND	10	4.5	2.00	
Vinyl Chloride	ND	1.0	0.54	2.00	
p/m-Xylene	ND	1.0	0.47	2.00	
o-Xylene	ND	1.0	0.78	2.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.58	2.00	
Tert-Butyl Alcohol (TBA)	ND	20	8.2	2.00	
Diisopropyl Ether (DIPE)	ND	1.0	0.47	2.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	0.43	2.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	0.47	2.00	
Ethanol	ND	100	35	2.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 36 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	106	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	101	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11-20140909	**14-09-0658-12-D**	**09/09/14 12:29**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 06:11**	**140912L051**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	320	25	7.2	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	103	80-127	
1,2-Dichloroethane-d4	104	80-128	
Toluene-d8	104	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 37 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-1-20140909	**14-09-0658-13-C**	**09/09/14 11:06**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/16/14 19:57**	**140916L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	3.7	10	3.5	1.00	J
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	7.6	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 38 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/09/14
3995 Via Oro Ave	Work Order:	14-09-0658
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 39 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	109	80-127	
1,2-Dichloroethane-d4	106	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 40 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-100-20140909	**14-09-0658-14-C**	**09/09/14 11:06**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/16/14 20:25**	**140916L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	7.9	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 41 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/09/14
3995 Via Oro Ave	Work Order:	14-09-0658
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 42 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	97	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 43 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-12-20140909	**14-09-0658-16-C**	**09/09/14 11:12**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/16/14 20:53**	**140916L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	40	14	4.00	
Benzene	4.7	2.0	1.3	4.00	
Bromobenzene	ND	2.0	1.3	4.00	
Bromochloromethane	ND	4.0	1.5	4.00	
Bromodichloromethane	ND	2.0	0.78	4.00	
Bromoform	ND	2.0	1.3	4.00	
Bromomethane	ND	4.0	1.5	4.00	
2-Butanone	ND	20	12	4.00	
n-Butylbenzene	ND	2.0	1.4	4.00	
sec-Butylbenzene	ND	2.0	0.91	4.00	
tert-Butylbenzene	ND	2.0	1.5	4.00	
Carbon Disulfide	ND	4.0	1.8	4.00	
Carbon Tetrachloride	ND	2.0	0.86	4.00	
Chlorobenzene	680	2.0	0.58	4.00	E
Chloroethane	ND	2.0	1.4	4.00	
Chloroform	ND	2.0	0.86	4.00	
Chloromethane	ND	2.0	0.86	4.00	
2-Chlorotoluene	ND	2.0	1.4	4.00	
4-Chlorotoluene	ND	2.0	1.3	4.00	
Dibromochloromethane	ND	2.0	0.94	4.00	
1,2-Dibromo-3-Chloropropane	ND	20	12	4.00	
1,2-Dibromoethane	ND	2.0	1.3	4.00	
Dibromomethane	ND	2.0	1.4	4.00	
1,2-Dichlorobenzene	ND	2.0	0.68	4.00	
1,3-Dichlorobenzene	ND	2.0	0.68	4.00	
1,4-Dichlorobenzene	1.7	2.0	1.2	4.00	J
Dichlorodifluoromethane	ND	4.0	0.94	4.00	
1,1-Dichloroethane	ND	2.0	0.76	4.00	
1,2-Dichloroethane	15	2.0	0.74	4.00	
1,1-Dichloroethene	ND	2.0	0.80	4.00	
c-1,2-Dichloroethene	ND	2.0	0.98	4.00	
t-1,2-Dichloroethene	ND	2.0	1.0	4.00	
1,2-Dichloropropane	ND	2.0	0.96	4.00	
1,3-Dichloropropane	ND	4.0	0.96	4.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 44 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	4.0	1.7	4.00	
1,1-Dichloropropene	ND	2.0	1.1	4.00	
c-1,3-Dichloropropene	ND	2.0	0.74	4.00	
t-1,3-Dichloropropene	ND	2.0	1.4	4.00	
Ethylbenzene	ND	2.0	1.3	4.00	
2-Hexanone	ND	40	10	4.00	
Isopropylbenzene	ND	2.0	1.7	4.00	
p-Isopropyltoluene	ND	2.0	0.54	4.00	
Methylene Chloride	ND	4.0	1.5	4.00	
4-Methyl-2-Pentanone	ND	20	11	4.00	
Naphthalene	ND	4.0	1.6	4.00	
n-Propylbenzene	ND	2.0	1.5	4.00	
Styrene	ND	2.0	1.3	4.00	
1,1,1,2-Tetrachloroethane	ND	2.0	0.94	4.00	
1,1,2,2-Tetrachloroethane	ND	2.0	0.88	4.00	
Tetrachloroethene	ND	2.0	0.86	4.00	
Toluene	ND	2.0	1.1	4.00	
1,2,3-Trichlorobenzene	ND	2.0	1.0	4.00	
1,2,4-Trichlorobenzene	ND	2.0	1.0	4.00	
1,1,1-Trichloroethane	ND	2.0	0.76	4.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	2.0	1.0	4.00	
1,1,2-Trichloroethane	ND	2.0	1.3	4.00	
Trichloroethene	ND	2.0	0.92	4.00	
Trichlorofluoromethane	ND	2.0	1.0	4.00	
1,2,3-Trichloropropane	ND	4.0	1.0	4.00	
1,2,4-Trimethylbenzene	ND	2.0	0.60	4.00	
1,3,5-Trimethylbenzene	ND	2.0	1.3	4.00	
Vinyl Acetate	ND	20	9.0	4.00	
Vinyl Chloride	ND	2.0	1.1	4.00	
p/m-Xylene	ND	2.0	0.94	4.00	
o-Xylene	ND	2.0	1.6	4.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.2	4.00	
Tert-Butyl Alcohol (TBA)	ND	40	16	4.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.94	4.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.86	4.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.94	4.00	
Ethanol	ND	200	69	4.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 45 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	96	80-128	
Toluene-d8	101	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-12-20140909	**14-09-0658-16-C**	**09/09/14 11:12**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/16/14 22:19**	**140916L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	650	20	5.8	40.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	101	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 46 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-11-20140909	**14-09-0658-17-C**	**09/09/14 08:09**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/16/14 22:47**	**140916L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	6.1	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 47 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/09/14
3995 Via Oro Ave	Work Order:	14-09-0658
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 48 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	102	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 49 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4-20140909	**14-09-0658-18-C**	**09/09/14 15:09**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/16/14 23:15**	**140916L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	200	71	20.0	
Benzene	ND	10	6.5	20.0	
Bromobenzene	ND	10	6.6	20.0	
Bromochloromethane	ND	20	7.6	20.0	
Bromodichloromethane	ND	10	3.9	20.0	
Bromoform	ND	10	6.7	20.0	
Bromomethane	ND	20	7.6	20.0	
2-Butanone	ND	100	58	20.0	
n-Butylbenzene	ND	10	6.8	20.0	
sec-Butylbenzene	ND	10	4.5	20.0	
tert-Butylbenzene	ND	10	7.6	20.0	
Carbon Disulfide	ND	20	8.8	20.0	
Carbon Tetrachloride	ND	10	4.3	20.0	
Chlorobenzene	1000	10	2.9	20.0	E
Chloroethane	ND	10	6.8	20.0	
Chloroform	3500	10	4.3	20.0	E
Chloromethane	ND	10	4.3	20.0	
2-Chlorotoluene	ND	10	6.8	20.0	
4-Chlorotoluene	ND	10	6.6	20.0	
Dibromochloromethane	ND	10	4.7	20.0	
1,2-Dibromo-3-Chloropropane	ND	100	58	20.0	
1,2-Dibromoethane	ND	10	6.7	20.0	
Dibromomethane	ND	10	6.9	20.0	
1,2-Dichlorobenzene	ND	10	3.4	20.0	
1,3-Dichlorobenzene	ND	10	3.4	20.0	
1,4-Dichlorobenzene	ND	10	6.2	20.0	
Dichlorodifluoromethane	ND	20	4.7	20.0	
1,1-Dichloroethane	ND	10	3.8	20.0	
1,2-Dichloroethane	ND	10	3.7	20.0	
1,1-Dichloroethene	17	10	4.0	20.0	
c-1,2-Dichloroethene	ND	10	4.9	20.0	
t-1,2-Dichloroethene	ND	10	5.2	20.0	
1,2-Dichloropropane	ND	10	4.8	20.0	
1,3-Dichloropropane	ND	20	4.8	20.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 50 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	20	8.5	20.0	
1,1-Dichloropropene	ND	10	5.6	20.0	
c-1,3-Dichloropropene	ND	10	3.7	20.0	
t-1,3-Dichloropropene	ND	10	7.0	20.0	
Ethylbenzene	ND	10	6.3	20.0	
2-Hexanone	ND	200	52	20.0	
Isopropylbenzene	ND	10	8.3	20.0	
p-Isopropyltoluene	ND	10	2.7	20.0	
Methylene Chloride	ND	20	7.7	20.0	
4-Methyl-2-Pentanone	ND	100	54	20.0	
Naphthalene	ND	20	8.1	20.0	
n-Propylbenzene	ND	10	7.6	20.0	
Styrene	ND	10	6.5	20.0	
1,1,1,2-Tetrachloroethane	ND	10	4.7	20.0	
1,1,2,2-Tetrachloroethane	ND	10	4.4	20.0	
Tetrachloroethene	94	10	4.3	20.0	
Toluene	ND	10	5.3	20.0	
1,2,3-Trichlorobenzene	ND	10	5.0	20.0	
1,2,4-Trichlorobenzene	ND	10	5.0	20.0	
1,1,1-Trichloroethane	ND	10	3.8	20.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	5.1	20.0	
1,1,2-Trichloroethane	ND	10	6.5	20.0	
Trichloroethene	510	10	4.6	20.0	
Trichlorofluoromethane	ND	10	5.0	20.0	
1,2,3-Trichloropropane	ND	20	5.0	20.0	
1,2,4-Trimethylbenzene	ND	10	3.0	20.0	
1,3,5-Trimethylbenzene	ND	10	6.6	20.0	
Vinyl Acetate	ND	100	45	20.0	
Vinyl Chloride	ND	10	5.4	20.0	
p/m-Xylene	ND	10	4.7	20.0	
o-Xylene	ND	10	7.8	20.0	
Methyl-t-Butyl Ether (MTBE)	ND	10	5.8	20.0	
Tert-Butyl Alcohol (TBA)	ND	200	82	20.0	
Diisopropyl Ether (DIPE)	ND	10	4.7	20.0	
Ethyl-t-Butyl Ether (ETBE)	ND	10	4.3	20.0	
Tert-Amyl-Methyl Ether (TAME)	ND	10	4.7	20.0	
Ethanol	ND	1000	350	20.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 51 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	68-120	
Dibromofluoromethane	108	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	101	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4-20140909	**14-09-0658-18-C**	**09/09/14 15:09**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/16/14 23:44**	**140916L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	960	100	29	200	
Chloroform	3200	100	43	200	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	68-120	
Dibromofluoromethane	107	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 52 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-4-20140909	**14-09-0658-19-C**	**09/09/14 15:28**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 00:12**	**140916L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	7.1	2.00	
Benzene	1.1	1.0	0.65	2.00	
Bromobenzene	ND	1.0	0.66	2.00	
Bromochloromethane	ND	2.0	0.76	2.00	
Bromodichloromethane	ND	1.0	0.39	2.00	
Bromoform	ND	1.0	0.67	2.00	
Bromomethane	ND	2.0	0.76	2.00	
2-Butanone	ND	10	5.8	2.00	
n-Butylbenzene	ND	1.0	0.68	2.00	
sec-Butylbenzene	ND	1.0	0.45	2.00	
tert-Butylbenzene	ND	1.0	0.76	2.00	
Carbon Disulfide	ND	2.0	0.88	2.00	
Carbon Tetrachloride	ND	1.0	0.43	2.00	
Chlorobenzene	470	1.0	0.29	2.00	E
Chloroethane	ND	1.0	0.68	2.00	
Chloroform	1.4	1.0	0.43	2.00	
Chloromethane	ND	1.0	0.43	2.00	
2-Chlorotoluene	ND	1.0	0.68	2.00	
4-Chlorotoluene	ND	1.0	0.66	2.00	
Dibromochloromethane	ND	1.0	0.47	2.00	
1,2-Dibromo-3-Chloropropane	ND	10	5.8	2.00	
1,2-Dibromoethane	ND	1.0	0.67	2.00	
Dibromomethane	ND	1.0	0.69	2.00	
1,2-Dichlorobenzene	ND	1.0	0.34	2.00	
1,3-Dichlorobenzene	ND	1.0	0.34	2.00	
1,4-Dichlorobenzene	0.81	1.0	0.62	2.00	J
Dichlorodifluoromethane	ND	2.0	0.47	2.00	
1,1-Dichloroethane	ND	1.0	0.38	2.00	
1,2-Dichloroethane	ND	1.0	0.37	2.00	
1,1-Dichloroethene	ND	1.0	0.40	2.00	
c-1,2-Dichloroethene	ND	1.0	0.49	2.00	
t-1,2-Dichloroethene	ND	1.0	0.52	2.00	
1,2-Dichloropropane	ND	1.0	0.48	2.00	
1,3-Dichloropropane	ND	2.0	0.48	2.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 53 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	2.0	0.85	2.00	
1,1-Dichloropropene	ND	1.0	0.56	2.00	
c-1,3-Dichloropropene	ND	1.0	0.37	2.00	
t-1,3-Dichloropropene	ND	1.0	0.70	2.00	
Ethylbenzene	ND	1.0	0.63	2.00	
2-Hexanone	ND	20	5.2	2.00	
Isopropylbenzene	ND	1.0	0.83	2.00	
p-Isopropyltoluene	ND	1.0	0.27	2.00	
Methylene Chloride	ND	2.0	0.77	2.00	
4-Methyl-2-Pentanone	ND	10	5.4	2.00	
Naphthalene	ND	2.0	0.81	2.00	
n-Propylbenzene	ND	1.0	0.76	2.00	
Styrene	ND	1.0	0.65	2.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.47	2.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.44	2.00	
Tetrachloroethene	0.47	1.0	0.43	2.00	J
Toluene	ND	1.0	0.53	2.00	
1,2,3-Trichlorobenzene	ND	1.0	0.50	2.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	2.00	
1,1,1-Trichloroethane	ND	1.0	0.38	2.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.0	0.51	2.00	
1,1,2-Trichloroethane	ND	1.0	0.65	2.00	
Trichloroethene	2.5	1.0	0.46	2.00	
Trichlorofluoromethane	ND	1.0	0.50	2.00	
1,2,3-Trichloropropane	ND	2.0	0.50	2.00	
1,2,4-Trimethylbenzene	ND	1.0	0.30	2.00	
1,3,5-Trimethylbenzene	ND	1.0	0.66	2.00	
Vinyl Acetate	ND	10	4.5	2.00	
Vinyl Chloride	ND	1.0	0.54	2.00	
p/m-Xylene	ND	1.0	0.47	2.00	
o-Xylene	ND	1.0	0.78	2.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.58	2.00	
Tert-Butyl Alcohol (TBA)	ND	20	8.2	2.00	
Diisopropyl Ether (DIPE)	ND	1.0	0.47	2.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	0.43	2.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	0.47	2.00	
Ethanol	ND	100	35	2.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 54 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	102	80-128	
Toluene-d8	100	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-4-20140909	**14-09-0658-19-C**	**09/09/14 15:28**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 00:41**	**140916L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	550	10	2.9	20.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	68-120	
Dibromofluoromethane	105	80-127	
1,2-Dichloroethane-d4	104	80-128	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 55 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-72**	**N/A**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 00:30**	**140912L051**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 56 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/09/14
3995 Via Oro Ave	Work Order:	14-09-0658
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 57 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	102	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 58 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-70**	**N/A**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 12:20**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 59 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/09/14
3995 Via Oro Ave	Work Order:	14-09-0658
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 60 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	96	80-127	
1,2-Dichloroethane-d4	99	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 61 of 63

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-73**	**N/A**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/16/14 19:28**	**140916L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 62 of 63

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/09/14
3995 Via Oro Ave	Work Order:	14-09-0658
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 63 of 63

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	102	80-128	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-22-20140909	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 17:14**	**140910S02**
MW-22-20140909	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 20:09**	**140910S02**
MW-22-20140909	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 20:28**	**140910S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	25.00	20.34	81	20.02	80	70-130	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-1187-5	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 15:35**	**140917S01**
14-09-1187-5	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 16:52**	**140917S01**
14-09-1187-5	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 17:12**	**140917S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	25.00	23.14	93	23.29	93	70-130	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-19-20140909	**Sample**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 01:55**	**140912S028**
MW-19-20140909	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 06:40**	**140912S028**
MW-19-20140909	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 07:08**	**140912S028**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	10.48	105	11.18	112	80-120	6	0-20	
Benzene	ND	10.00	10.78	108	10.39	104	76-124	4	0-20	
Bromobenzene	ND	10.00	10.55	105	10.02	100	80-120	5	0-20	
Bromochloromethane	ND	10.00	9.850	98	9.631	96	80-120	2	0-20	
Bromodichloromethane	ND	10.00	9.589	96	9.269	93	80-120	3	0-20	
Bromoform	ND	10.00	7.104	71	7.678	77	80-120	8	0-20	3
Bromomethane	ND	10.00	12.29	123	11.94	119	80-120	3	0-20	3
2-Butanone	ND	10.00	8.515	85	7.379	74	80-120	14	0-20	3
n-Butylbenzene	ND	10.00	10.23	102	9.549	95	80-120	7	0-25	
sec-Butylbenzene	ND	10.00	10.82	108	10.19	102	80-120	6	0-20	
tert-Butylbenzene	ND	10.00	10.84	108	10.47	105	80-120	4	0-20	
Carbon Disulfide	ND	10.00	9.823	98	9.082	91	80-120	8	0-20	
Carbon Tetrachloride	ND	10.00	8.187	82	8.020	80	74-134	2	0-20	
Chlorobenzene	ND	10.00	11.07	111	10.57	106	80-120	5	0-20	
Chloroethane	ND	10.00	10.25	103	9.827	98	80-120	4	0-20	
Chloroform	21.32	10.00	30.64	93	28.97	77	80-120	6	0-20	3
Chloromethane	ND	10.00	12.05	121	11.98	120	80-120	1	0-20	3
2-Chlorotoluene	ND	10.00	11.56	116	10.88	109	80-120	6	0-20	
4-Chlorotoluene	ND	10.00	10.57	106	10.13	101	80-120	4	0-20	
Dibromochloromethane	ND	10.00	8.321	83	8.743	87	80-120	5	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	7.546	75	8.168	82	80-120	8	0-20	3
1,2-Dibromoethane	ND	10.00	9.573	96	9.463	95	80-120	1	0-20	
Dibromomethane	ND	10.00	10.60	106	10.09	101	80-120	5	0-20	
1,2-Dichlorobenzene	ND	10.00	10.91	109	10.40	104	80-120	5	0-20	
1,3-Dichlorobenzene	ND	10.00	10.63	106	10.05	100	80-120	6	0-20	
1,4-Dichlorobenzene	ND	10.00	10.31	103	9.660	97	80-120	7	0-20	
Dichlorodifluoromethane	ND	10.00	10.56	106	10.09	101	80-120	5	0-20	
1,1-Dichloroethane	ND	10.00	10.82	108	10.10	101	80-120	7	0-20	
1,2-Dichloroethane	ND	10.00	10.20	102	9.737	97	80-120	5	0-20	
1,1-Dichloroethene	ND	10.00	10.53	105	10.17	102	73-127	3	0-20	
c-1,2-Dichloroethene	ND	10.00	11.21	112	10.52	105	80-120	6	0-20	
t-1,2-Dichloroethene	ND	10.00	11.11	111	10.48	105	80-120	6	0-20	
1,2-Dichloropropane	ND	10.00	10.28	103	9.673	97	80-120	6	0-25	
1,3-Dichloropropane	ND	10.00	10.38	104	10.03	100	80-120	3	0-20	
2,2-Dichloropropane	ND	10.00	7.928	79	7.225	72	80-120	9	0-20	3

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 11

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	10.08	101	9.298	93	80-120	8	0-20	
c-1,3-Dichloropropene	ND	10.00	8.880	89	8.671	87	80-120	2	0-20	
t-1,3-Dichloropropene	ND	10.00	8.072	81	7.791	78	80-120	4	0-20	3
Ethylbenzene	ND	10.00	10.91	109	10.36	104	78-126	5	0-20	
2-Hexanone	ND	10.00	8.732	87	8.671	87	80-120	1	0-20	
Isopropylbenzene	ND	10.00	10.91	109	10.28	103	80-120	6	0-20	
p-Isopropyltoluene	ND	10.00	9.413	94	8.662	87	80-120	8	0-20	
Methylene Chloride	ND	10.00	11.70	117	11.11	111	80-120	5	0-20	
4-Methyl-2-Pentanone	ND	10.00	9.063	91	8.889	89	80-120	2	0-20	
Naphthalene	ND	10.00	9.565	96	9.705	97	80-120	1	0-20	
n-Propylbenzene	ND	10.00	11.06	111	10.48	105	80-120	5	0-20	
Styrene	ND	10.00	8.040	80	7.584	76	80-120	6	0-20	3
1,1,1,2-Tetrachloroethane	ND	10.00	8.841	88	8.663	87	80-120	2	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.35	104	9.995	100	80-120	4	0-20	
Tetrachloroethene	ND	10.00	8.852	89	8.225	82	80-120	7	0-20	
Toluene	ND	10.00	10.76	108	10.13	101	80-120	6	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.71	107	10.02	100	80-120	7	0-20	
1,2,4-Trichlorobenzene	ND	10.00	9.902	99	9.453	95	80-120	5	0-20	
1,1,1-Trichloroethane	ND	10.00	9.311	93	8.282	83	80-120	12	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	9.904	99	9.638	96	80-120	3	0-20	
1,1,2-Trichloroethane	ND	10.00	10.47	105	10.09	101	80-120	4	0-20	
Trichloroethene	3.906	10.00	13.48	96	12.89	90	77-120	4	0-20	
Trichlorofluoromethane	ND	10.00	9.271	93	9.223	92	80-120	1	0-20	
1,2,3-Trichloropropane	ND	10.00	9.151	92	8.965	90	80-120	2	0-20	
1,2,4-Trimethylbenzene	ND	10.00	9.261	93	8.756	88	80-120	6	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.82	108	10.17	102	80-120	6	0-20	
Vinyl Acetate	ND	10.00	10.39	104	9.636	96	80-120	8	0-20	
Vinyl Chloride	ND	10.00	11.65	117	11.71	117	72-126	0	0-20	
p/m-Xylene	ND	20.00	21.90	109	20.64	103	80-120	6	0-20	
o-Xylene	ND	10.00	11.10	111	10.71	107	80-120	4	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	8.992	90	8.650	87	67-121	4	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	54.44	109	50.96	102	36-162	7	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	10.86	109	10.23	102	60-138	6	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.254	93	8.954	90	69-123	3	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	8.745	87	8.422	84	65-120	4	0-20	
Ethanol	ND	100.0	133.5	133	144.0	144	30-180	8	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-19-20140909	**Sample**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 01:55**	**140912S028**
MW-19-20140909	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 06:40**	**140912S028**
MW-19-20140909	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 07:08**	**140912S028**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.33	103	9.904	99	68-120	
Dibromofluoromethane	10.00	10.10	101	9.454	95	80-127	
1,2-Dichloroethane-d4	10.00	9.744	97	9.592	96	80-128	
Toluene-d8	10.00	10.12	101	10.18	102	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 6 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0760-4	**Sample**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 14:08**	**140915S002**
14-09-0760-4	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 15:34**	**140915S002**
14-09-0760-4	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 16:02**	**140915S002**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	10.37	104	10.28	103	80-120	1	0-20	
Benzene	ND	10.00	10.84	108	10.47	105	76-124	3	0-20	
Bromobenzene	ND	10.00	10.42	104	10.22	102	80-120	2	0-20	
Bromochloromethane	ND	10.00	10.64	106	9.869	99	80-120	8	0-20	
Bromodichloromethane	ND	10.00	9.488	95	9.280	93	80-120	2	0-20	
Bromoform	ND	10.00	6.672	67	7.592	76	80-120	13	0-20	3
Bromomethane	ND	10.00	8.216	82	9.852	99	80-120	18	0-20	
2-Butanone	ND	10.00	9.639	96	8.570	86	80-120	12	0-20	
n-Butylbenzene	ND	10.00	10.95	109	10.53	105	80-120	4	0-25	
sec-Butylbenzene	ND	10.00	10.93	109	10.71	107	80-120	2	0-20	
tert-Butylbenzene	ND	10.00	10.78	108	10.36	104	80-120	4	0-20	
Carbon Disulfide	ND	10.00	11.28	113	10.92	109	80-120	3	0-20	
Carbon Tetrachloride	ND	10.00	8.168	82	8.215	82	74-134	1	0-20	
Chlorobenzene	ND	10.00	10.78	108	10.78	108	80-120	0	0-20	
Chloroethane	ND	10.00	12.25	123	10.31	103	80-120	17	0-20	3
Chloroform	ND	10.00	10.21	102	9.962	100	80-120	2	0-20	
Chloromethane	ND	10.00	11.17	112	11.45	115	80-120	3	0-20	
2-Chlorotoluene	ND	10.00	11.52	115	11.20	112	80-120	3	0-20	
4-Chlorotoluene	ND	10.00	10.41	104	10.33	103	80-120	1	0-20	
Dibromochloromethane	ND	10.00	8.328	83	8.867	89	80-120	6	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	7.719	77	8.270	83	80-120	7	0-20	3
1,2-Dibromoethane	ND	10.00	10.01	100	10.29	103	80-120	3	0-20	
Dibromomethane	ND	10.00	10.29	103	10.07	101	80-120	2	0-20	
1,2-Dichlorobenzene	ND	10.00	10.59	106	10.66	107	80-120	1	0-20	
1,3-Dichlorobenzene	ND	10.00	10.70	107	10.36	104	80-120	3	0-20	
1,4-Dichlorobenzene	ND	10.00	10.09	101	9.986	100	80-120	1	0-20	
Dichlorodifluoromethane	ND	10.00	12.87	129	12.54	125	80-120	3	0-20	3
1,1-Dichloroethane	ND	10.00	10.76	108	10.32	103	80-120	4	0-20	
1,2-Dichloroethane	ND	10.00	10.03	100	9.812	98	80-120	2	0-20	
1,1-Dichloroethene	ND	10.00	11.46	115	10.90	109	73-127	5	0-20	
c-1,2-Dichloroethene	ND	10.00	11.20	112	10.83	108	80-120	3	0-20	
t-1,2-Dichloroethene	ND	10.00	11.45	114	11.10	111	80-120	3	0-20	
1,2-Dichloropropane	ND	10.00	10.39	104	9.986	100	80-120	4	0-25	
1,3-Dichloropropane	ND	10.00	10.49	105	10.48	105	80-120	0	0-20	
2,2-Dichloropropane	ND	10.00	10.02	100	9.370	94	80-120	7	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 11

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	10.59	106	10.26	103	80-120	3	0-20	
c-1,3-Dichloropropene	ND	10.00	9.331	93	9.278	93	80-120	1	0-20	
t-1,3-Dichloropropene	ND	10.00	8.560	86	8.804	88	80-120	3	0-20	
Ethylbenzene	ND	10.00	10.88	109	10.69	107	78-126	2	0-20	
2-Hexanone	ND	10.00	8.739	87	9.212	92	80-120	5	0-20	
Isopropylbenzene	ND	10.00	11.00	110	10.83	108	80-120	2	0-20	
p-Isopropyltoluene	ND	10.00	9.558	96	9.334	93	80-120	2	0-20	
Methylene Chloride	ND	10.00	12.08	121	11.66	117	80-120	4	0-20	3
4-Methyl-2-Pentanone	ND	10.00	9.589	96	8.976	90	80-120	7	0-20	
Naphthalene	ND	10.00	11.11	111	11.39	114	80-120	2	0-20	
n-Propylbenzene	ND	10.00	11.23	112	11.20	112	80-120	0	0-20	
Styrene	ND	10.00	10.78	108	10.83	108	80-120	1	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	8.545	85	8.648	86	80-120	1	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.53	105	10.28	103	80-120	2	0-20	
Tetrachloroethene	ND	10.00	8.752	88	8.780	88	80-120	0	0-20	
Toluene	ND	10.00	10.72	107	10.31	103	80-120	4	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.76	108	10.83	108	80-120	1	0-20	
1,2,4-Trichlorobenzene	ND	10.00	10.62	106	10.58	106	80-120	0	0-20	
1,1,1-Trichloroethane	ND	10.00	9.268	93	9.062	91	80-120	2	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	11.47	115	11.16	112	80-120	3	0-20	
1,1,2-Trichloroethane	ND	10.00	10.62	106	10.85	108	80-120	2	0-20	
Trichloroethene	ND	10.00	10.29	103	9.967	100	77-120	3	0-20	
Trichlorofluoromethane	ND	10.00	9.894	99	10.23	102	80-120	3	0-20	
1,2,3-Trichloropropane	ND	10.00	9.495	95	9.879	99	80-120	4	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.22	102	10.17	102	80-120	0	0-20	
1,3,5-Trimethylbenzene	ND	10.00	11.22	112	10.94	109	80-120	3	0-20	
Vinyl Acetate	ND	10.00	10.86	109	10.72	107	80-120	1	0-20	
Vinyl Chloride	ND	10.00	12.02	120	12.37	124	72-126	3	0-20	
p/m-Xylene	ND	20.00	22.14	111	21.90	109	80-120	1	0-20	
o-Xylene	ND	10.00	11.17	112	10.90	109	80-120	2	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.378	94	9.411	94	67-121	0	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	65.32	131	51.76	104	36-162	23	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	10.74	107	10.78	108	60-138	0	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.728	97	9.524	95	69-123	2	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.288	93	9.115	91	65-120	2	0-20	
Ethanol	ND	100.0	114.8	115	122.7	123	30-180	7	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0760-4	**Sample**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 14:08**	**140915S002**
14-09-0760-4	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 15:34**	**140915S002**
14-09-0760-4	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 16:02**	**140915S002**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.05	101	10.11	101	68-120	
Dibromofluoromethane	10.00	10.45	105	9.882	99	80-127	
1,2-Dichloroethane-d4	10.00	10.07	101	9.942	99	80-128	
Toluene-d8	10.00	10.17	102	9.987	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 9 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
G-1-20140909	**Sample**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/16/14 19:57**	**140916S034**
G-1-20140909	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/16/14 21:22**	**140916S034**
G-1-20140909	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/16/14 21:50**	**140916S034**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	9.528	95	9.505	95	80-120	0	0-20	
Benzene	ND	10.00	10.28	103	10.06	101	76-124	2	0-20	
Bromobenzene	ND	10.00	10.22	102	9.973	100	80-120	2	0-20	
Bromochloromethane	ND	10.00	10.23	102	10.60	106	80-120	4	0-20	
Bromodichloromethane	ND	10.00	10.07	101	10.42	104	80-120	3	0-20	
Bromoform	ND	10.00	9.233	92	10.01	100	80-120	8	0-20	
Bromomethane	ND	10.00	8.934	89	9.446	94	80-120	6	0-20	
2-Butanone	ND	10.00	8.059	81	11.97	120	80-120	39	0-20	4
n-Butylbenzene	ND	10.00	10.96	110	10.89	109	80-120	1	0-25	
sec-Butylbenzene	ND	10.00	11.01	110	10.83	108	80-120	2	0-20	
tert-Butylbenzene	ND	10.00	11.01	110	11.04	110	80-120	0	0-20	
Carbon Disulfide	ND	10.00	9.107	91	9.572	96	80-120	5	0-20	
Carbon Tetrachloride	ND	10.00	9.734	97	10.28	103	74-134	5	0-20	
Chlorobenzene	7.600	10.00	18.96	114	19.04	114	80-120	0	0-20	
Chloroethane	ND	10.00	9.783	98	11.10	111	80-120	13	0-20	
Chloroform	ND	10.00	9.918	99	10.44	104	80-120	5	0-20	
Chloromethane	ND	10.00	9.583	96	10.12	101	80-120	5	0-20	
2-Chlorotoluene	ND	10.00	10.94	109	10.83	108	80-120	1	0-20	
4-Chlorotoluene	ND	10.00	10.38	104	10.52	105	80-120	1	0-20	
Dibromochloromethane	ND	10.00	9.445	94	9.713	97	80-120	3	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	8.767	88	9.659	97	80-120	10	0-20	
1,2-Dibromoethane	ND	10.00	9.638	96	9.731	97	80-120	1	0-20	
Dibromomethane	ND	10.00	9.742	97	9.633	96	80-120	1	0-20	
1,2-Dichlorobenzene	ND	10.00	10.44	104	10.58	106	80-120	1	0-20	
1,3-Dichlorobenzene	ND	10.00	10.59	106	10.61	106	80-120	0	0-20	
1,4-Dichlorobenzene	ND	10.00	9.842	98	9.986	100	80-120	1	0-20	
Dichlorodifluoromethane	ND	10.00	10.81	108	11.55	115	80-120	7	0-20	
1,1-Dichloroethane	ND	10.00	9.693	97	9.967	100	80-120	3	0-20	
1,2-Dichloroethane	ND	10.00	9.621	96	9.716	97	80-120	1	0-20	
1,1-Dichloroethene	ND	10.00	9.669	97	10.00	100	73-127	3	0-20	
c-1,2-Dichloroethene	ND	10.00	10.57	106	10.86	109	80-120	3	0-20	
t-1,2-Dichloroethene	ND	10.00	9.936	99	10.43	104	80-120	5	0-20	
1,2-Dichloropropane	ND	10.00	9.814	98	10.03	100	80-120	2	0-25	
1,3-Dichloropropane	ND	10.00	9.779	98	9.874	99	80-120	1	0-20	
2,2-Dichloropropane	ND	10.00	10.14	101	10.26	103	80-120	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 11

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	10.20	102	10.45	105	80-120	2	0-20	
c-1,3-Dichloropropene	ND	10.00	10.12	101	10.42	104	80-120	3	0-20	
t-1,3-Dichloropropene	ND	10.00	8.282	83	8.606	86	80-120	4	0-20	
Ethylbenzene	ND	10.00	10.43	104	10.25	102	78-126	2	0-20	
2-Hexanone	ND	10.00	8.737	87	9.225	92	80-120	5	0-20	
Isopropylbenzene	ND	10.00	11.00	110	10.85	109	80-120	1	0-20	
p-Isopropyltoluene	ND	10.00	9.868	99	9.870	99	80-120	0	0-20	
Methylene Chloride	ND	10.00	10.13	101	10.38	104	80-120	2	0-20	
4-Methyl-2-Pentanone	ND	10.00	10.11	101	10.36	104	80-120	2	0-20	
Naphthalene	ND	10.00	11.71	117	12.19	122	80-120	4	0-20	3
n-Propylbenzene	ND	10.00	10.63	106	10.41	104	80-120	2	0-20	
Styrene	ND	10.00	10.44	104	10.44	104	80-120	0	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	9.508	95	9.848	98	80-120	4	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	9.650	96	10.08	101	80-120	4	0-20	
Tetrachloroethene	ND	10.00	8.779	88	8.456	85	80-120	4	0-20	
Toluene	ND	10.00	10.12	101	10.26	103	80-120	1	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.93	109	11.14	111	80-120	2	0-20	
1,2,4-Trichlorobenzene	ND	10.00	10.87	109	11.11	111	80-120	2	0-20	
1,1,1-Trichloroethane	ND	10.00	9.829	98	10.49	105	80-120	6	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	9.519	95	9.842	98	80-120	3	0-20	
1,1,2-Trichloroethane	ND	10.00	10.06	101	9.923	99	80-120	1	0-20	
Trichloroethene	ND	10.00	10.11	101	10.21	102	77-120	1	0-20	
Trichlorofluoromethane	ND	10.00	10.06	101	10.60	106	80-120	5	0-20	
1,2,3-Trichloropropane	ND	10.00	8.527	85	8.786	88	80-120	3	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.53	105	10.56	106	80-120	0	0-20	
1,3,5-Trimethylbenzene	ND	10.00	11.13	111	10.85	109	80-120	3	0-20	
Vinyl Acetate	ND	10.00	9.696	97	10.29	103	80-120	6	0-20	
Vinyl Chloride	ND	10.00	10.00	100	11.37	114	72-126	13	0-20	
p/m-Xylene	ND	20.00	21.67	108	21.25	106	80-120	2	0-20	
o-Xylene	ND	10.00	10.89	109	10.98	110	80-120	1	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.338	93	10.00	100	67-121	7	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	54.04	108	51.32	103	36-162	5	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	9.858	99	10.34	103	60-138	5	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.658	97	10.15	101	69-123	5	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.796	98	9.799	98	65-120	0	0-20	
Ethanol	ND	100.0	102.7	103	107.1	107	30-180	4	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
G-1-20140909	**Sample**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/16/14 19:57**	**140916S034**
G-1-20140909	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/16/14 21:22**	**140916S034**
G-1-20140909	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/16/14 21:50**	**140916S034**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.10	101	9.812	98	68-120	
Dibromofluoromethane	10.00	9.888	99	10.47	105	80-127	
1,2-Dichloroethane-d4	10.00	9.657	97	9.968	100	80-128	
Toluene-d8	10.00	10.13	101	10.17	102	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-38	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 16:16**	**140910L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	25.14	101	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-080-40	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/11/14 11:50**	**140911L01A**
099-15-080-40	**LCSD**	**Aqueous**	**IC 8**	**N/A**	**09/11/14 12:10**	**140911L01A**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	24.40	98	26.09	104	80-120	7	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-41	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 14:17**	**140917L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	24.14	97	80-120	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-72	**LCS**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 23:33**	**140912L051**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	11.81	118	80-120	73-127	
Benzene	10.00	10.20	102	80-120	73-127	
Bromobenzene	10.00	10.19	102	80-120	73-127	
Bromochloromethane	10.00	9.395	94	80-120	73-127	
Bromodichloromethane	10.00	9.169	92	80-120	73-127	
Bromoform	10.00	7.212	72	80-120	73-127	X
Bromomethane	10.00	12.81	128	80-120	73-127	X
2-Butanone	10.00	10.16	102	80-120	73-127	
n-Butylbenzene	10.00	10.53	105	77-123	69-131	
sec-Butylbenzene	10.00	10.57	106	80-120	73-127	
tert-Butylbenzene	10.00	10.32	103	80-120	73-127	
Carbon Disulfide	10.00	9.180	92	80-120	73-127	
Carbon Tetrachloride	10.00	7.589	76	74-134	64-144	
Chlorobenzene	10.00	10.54	105	80-120	73-127	
Chloroethane	10.00	9.745	97	80-120	73-127	
Chloroform	10.00	9.360	94	80-120	73-127	
Chloromethane	10.00	11.72	117	80-120	73-127	
2-Chlorotoluene	10.00	11.16	112	80-120	73-127	
4-Chlorotoluene	10.00	10.35	104	80-120	73-127	
Dibromochloromethane	10.00	8.368	84	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	8.208	82	80-120	73-127	
1,2-Dibromoethane	10.00	9.599	96	79-121	72-128	
Dibromomethane	10.00	10.14	101	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.48	105	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.44	104	80-120	73-127	
1,4-Dichlorobenzene	10.00	10.00	100	80-120	73-127	
Dichlorodifluoromethane	10.00	10.35	104	80-120	73-127	
1,1-Dichloroethane	10.00	9.882	99	80-120	73-127	
1,2-Dichloroethane	10.00	9.799	98	80-120	73-127	
1,1-Dichloroethene	10.00	10.27	103	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.48	105	80-120	73-127	
t-1,2-Dichloroethene	10.00	10.61	106	80-120	73-127	
1,2-Dichloropropane	10.00	9.558	96	79-115	73-121	
1,3-Dichloropropane	10.00	10.05	100	80-120	73-127	
2,2-Dichloropropane	10.00	8.330	83	80-120	73-127	
1,1-Dichloropropene	10.00	9.289	93	80-120	73-127	
c-1,3-Dichloropropene	10.00	9.061	91	80-120	73-127	
t-1,3-Dichloropropene	10.00	8.237	82	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 12

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	10.42	104	80-120	73-127	
2-Hexanone	10.00	8.822	88	80-120	73-127	
Isopropylbenzene	10.00	10.57	106	80-120	73-127	
p-Isopropyltoluene	10.00	9.222	92	80-120	73-127	
Methylene Chloride	10.00	10.83	108	80-120	73-127	
4-Methyl-2-Pentanone	10.00	9.050	91	80-120	73-127	
Naphthalene	10.00	10.81	108	80-120	73-127	
n-Propylbenzene	10.00	10.74	107	80-120	73-127	
Styrene	10.00	10.59	106	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	8.540	85	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	10.04	100	80-120	73-127	
Tetrachloroethene	10.00	9.172	92	80-120	73-127	
Toluene	10.00	10.30	103	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	10.69	107	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	10.45	105	80-120	73-127	
1,1,1-Trichloroethane	10.00	8.628	86	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	10.02	100	80-120	73-127	
1,1,2-Trichloroethane	10.00	10.42	104	80-120	73-127	
Trichloroethene	10.00	9.539	95	79-127	71-135	
Trichlorofluoromethane	10.00	9.202	92	80-120	73-127	
1,2,3-Trichloropropane	10.00	9.575	96	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.08	101	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.69	107	80-120	73-127	
Vinyl Acetate	10.00	10.24	102	80-120	73-127	
Vinyl Chloride	10.00	11.60	116	72-132	62-142	
p/m-Xylene	20.00	20.93	105	80-120	73-127	
o-Xylene	10.00	10.68	107	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	8.882	89	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	49.19	98	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	10.03	100	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.012	90	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	8.848	88	70-120	62-128	
Ethanol	100.0	123.0	123	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 0
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 6 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-72	**LCS**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 23:33**	**140912L051**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.982	100	68-120	
Dibromofluoromethane	10.00	9.168	92	80-127	
1,2-Dichloroethane-d4	10.00	9.401	94	80-128	
Toluene-d8	10.00	10.20	102	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-70	**LCS**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 10:40**	**140915L003**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	19.50	195	80-120	73-127	X
Benzene	10.00	10.32	103	80-120	73-127	
Bromobenzene	10.00	9.874	99	80-120	73-127	
Bromochloromethane	10.00	10.12	101	80-120	73-127	
Bromodichloromethane	10.00	8.884	89	80-120	73-127	
Bromoform	10.00	7.160	72	80-120	73-127	X
Bromomethane	10.00	13.06	131	80-120	73-127	X
2-Butanone	10.00	13.03	130	80-120	73-127	X
n-Butylbenzene	10.00	10.68	107	77-123	69-131	
sec-Butylbenzene	10.00	10.88	109	80-120	73-127	
tert-Butylbenzene	10.00	10.47	105	80-120	73-127	
Carbon Disulfide	10.00	10.28	103	80-120	73-127	
Carbon Tetrachloride	10.00	7.982	80	74-134	64-144	
Chlorobenzene	10.00	10.23	102	80-120	73-127	
Chloroethane	10.00	10.34	103	80-120	73-127	
Chloroform	10.00	9.716	97	80-120	73-127	
Chloromethane	10.00	12.41	124	80-120	73-127	ME
2-Chlorotoluene	10.00	10.74	107	80-120	73-127	
4-Chlorotoluene	10.00	10.13	101	80-120	73-127	
Dibromochloromethane	10.00	8.237	82	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	7.766	78	80-120	73-127	ME
1,2-Dibromoethane	10.00	9.530	95	79-121	72-128	
Dibromomethane	10.00	9.532	95	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.40	104	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.71	107	80-120	73-127	
1,4-Dichlorobenzene	10.00	9.938	99	80-120	73-127	
Dichlorodifluoromethane	10.00	12.85	128	80-120	73-127	X
1,1-Dichloroethane	10.00	10.19	102	80-120	73-127	
1,2-Dichloroethane	10.00	9.230	92	80-120	73-127	
1,1-Dichloroethene	10.00	11.05	110	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.50	105	80-120	73-127	
t-1,2-Dichloroethene	10.00	10.95	110	80-120	73-127	
1,2-Dichloropropane	10.00	9.208	92	79-115	73-121	
1,3-Dichloropropane	10.00	9.494	95	80-120	73-127	
2,2-Dichloropropane	10.00	9.984	100	80-120	73-127	
1,1-Dichloropropene	10.00	9.839	98	80-120	73-127	
c-1,3-Dichloropropene	10.00	8.933	89	80-120	73-127	
t-1,3-Dichloropropene	10.00	8.132	81	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 12

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	10.24	102	80-120	73-127	
2-Hexanone	10.00	11.38	114	80-120	73-127	
Isopropylbenzene	10.00	10.31	103	80-120	73-127	
p-Isopropyltoluene	10.00	9.563	96	80-120	73-127	
Methylene Chloride	10.00	11.12	111	80-120	73-127	
4-Methyl-2-Pentanone	10.00	8.709	87	80-120	73-127	
Naphthalene	10.00	9.878	99	80-120	73-127	
n-Propylbenzene	10.00	10.62	106	80-120	73-127	
Styrene	10.00	10.25	102	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	8.440	84	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	9.566	96	80-120	73-127	
Tetrachloroethene	10.00	8.841	88	80-120	73-127	
Toluene	10.00	10.09	101	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	10.49	105	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	10.27	103	80-120	73-127	
1,1,1-Trichloroethane	10.00	8.948	89	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	10.70	107	80-120	73-127	
1,1,2-Trichloroethane	10.00	9.702	97	80-120	73-127	
Trichloroethene	10.00	9.683	97	79-127	71-135	
Trichlorofluoromethane	10.00	10.63	106	80-120	73-127	
1,2,3-Trichloropropane	10.00	8.615	86	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.07	101	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.39	104	80-120	73-127	
Vinyl Acetate	10.00	10.44	104	80-120	73-127	
Vinyl Chloride	10.00	12.28	123	72-132	62-142	
p/m-Xylene	20.00	20.88	104	80-120	73-127	
o-Xylene	10.00	10.38	104	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	8.979	90	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	49.88	100	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	10.40	104	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.279	93	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	8.556	86	70-120	62-128	
Ethanol	100.0	142.5	142	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 2
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 9 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-70	**LCS**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 10:40**	**140915L003**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.853	99	68-120	
Dibromofluoromethane	10.00	9.586	96	80-127	
1,2-Dichloroethane-d4	10.00	9.252	93	80-128	
Toluene-d8	10.00	9.762	98	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-73	**LCS**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/16/14 17:54**	**140916L025**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	14.41	144	80-120	73-127	X
Benzene	10.00	9.853	99	80-120	73-127	
Bromobenzene	10.00	9.952	100	80-120	73-127	
Bromochloromethane	10.00	9.613	96	80-120	73-127	
Bromodichloromethane	10.00	10.44	104	80-120	73-127	
Bromoform	10.00	10.82	108	80-120	73-127	
Bromomethane	10.00	12.22	122	80-120	73-127	ME
2-Butanone	10.00	11.73	117	80-120	73-127	
n-Butylbenzene	10.00	10.33	103	77-123	69-131	
sec-Butylbenzene	10.00	10.65	106	80-120	73-127	
tert-Butylbenzene	10.00	10.61	106	80-120	73-127	
Carbon Disulfide	10.00	8.484	85	80-120	73-127	
Carbon Tetrachloride	10.00	9.811	98	74-134	64-144	
Chlorobenzene	10.00	10.17	102	80-120	73-127	
Chloroethane	10.00	9.481	95	80-120	73-127	
Chloroform	10.00	9.371	94	80-120	73-127	
Chloromethane	10.00	10.74	107	80-120	73-127	
2-Chlorotoluene	10.00	10.43	104	80-120	73-127	
4-Chlorotoluene	10.00	10.23	102	80-120	73-127	
Dibromochloromethane	10.00	10.53	105	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	10.58	106	80-120	73-127	
1,2-Dibromoethane	10.00	9.964	100	79-121	72-128	
Dibromomethane	10.00	9.489	95	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.54	105	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.36	104	80-120	73-127	
1,4-Dichlorobenzene	10.00	9.649	96	80-120	73-127	
Dichlorodifluoromethane	10.00	10.03	100	80-120	73-127	
1,1-Dichloroethane	10.00	9.191	92	80-120	73-127	
1,2-Dichloroethane	10.00	9.133	91	80-120	73-127	
1,1-Dichloroethene	10.00	9.600	96	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.20	102	80-120	73-127	
t-1,2-Dichloroethene	10.00	9.795	98	80-120	73-127	
1,2-Dichloropropane	10.00	9.760	98	79-115	73-121	
1,3-Dichloropropane	10.00	9.996	100	80-120	73-127	
2,2-Dichloropropane	10.00	9.285	93	80-120	73-127	
1,1-Dichloropropene	10.00	9.816	98	80-120	73-127	
c-1,3-Dichloropropene	10.00	10.42	104	80-120	73-127	
t-1,3-Dichloropropene	10.00	8.852	89	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 12

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	10.08	101	80-120	73-127	
2-Hexanone	10.00	11.51	115	80-120	73-127	
Isopropylbenzene	10.00	10.65	106	80-120	73-127	
p-Isopropyltoluene	10.00	9.573	96	80-120	73-127	
Methylene Chloride	10.00	9.917	99	80-120	73-127	
4-Methyl-2-Pentanone	10.00	10.40	104	80-120	73-127	
Naphthalene	10.00	12.49	125	80-120	73-127	ME
n-Propylbenzene	10.00	10.12	101	80-120	73-127	
Styrene	10.00	10.44	104	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	10.39	104	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	10.03	100	80-120	73-127	
Tetrachloroethene	10.00	10.35	103	80-120	73-127	
Toluene	10.00	9.825	98	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	11.50	115	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	10.88	109	80-120	73-127	
1,1,1-Trichloroethane	10.00	9.698	97	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	8.865	89	80-120	73-127	
1,1,2-Trichloroethane	10.00	10.12	101	80-120	73-127	
Trichloroethene	10.00	9.595	96	79-127	71-135	
Trichlorofluoromethane	10.00	9.399	94	80-120	73-127	
1,2,3-Trichloropropane	10.00	9.084	91	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.26	103	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.61	106	80-120	73-127	
Vinyl Acetate	10.00	9.779	98	80-120	73-127	
Vinyl Chloride	10.00	10.64	106	72-132	62-142	
p/m-Xylene	20.00	20.75	104	80-120	73-127	
o-Xylene	10.00	10.84	108	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	9.832	98	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	50.26	101	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	9.864	99	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.939	99	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	10.12	101	70-120	62-128	
Ethanol	100.0	111.5	111	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 2
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0658
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 12 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-73	**LCS**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/16/14 17:54**	**140916L025**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.828	98	68-120	
Dibromofluoromethane	10.00	9.603	96	80-127	
1,2-Dichloroethane-d4	10.00	9.196	92	80-128	
Toluene-d8	10.00	9.857	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-0658

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0 (M) pCBSA	N/A	811	IC 8	1
EPA 8260B	EPA 5030C	316	GC/MS L	2

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Glossary of Terms and Qualifiers

Work Order: 14-09-0658 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AECOM

Chain-of-Custody Record

14-09-0658

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00011
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL 6
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/9/2014
Page: 1 of 3

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
01	TB-20140909	9/9/2014	0730	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
02	EB-20140909	9/9/2014	1200	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
02	EB-20140909	9/9/2014	1200	W	125 mL P	≤6° C	None		1		X	
03	MW-19-20140909	9/9/2014	0904	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
03	MW-19-20140909	9/9/2014	0904	W	125 mL P	≤6° C	None		1		X	
04	MW-22-20140909	9/9/2014	1338	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
04	MW-22-20140909	9/9/2014	1338	W	125 mL P	≤6° C	None		1		X	
05	MW-16-20140909	9/9/2014	1135	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
05	MW-16-20140909	9/9/2014	1135	W	125 mL P	≤6° C	None		1		X	
06	G-25-20140909	9/9/2014	1000	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
06	G-25-20140909	9/9/2014	1000	W	125 mL P	≤6° C	None		1		X	
07	BF-5-20140909	9/9/2014	1137	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
07	BF-5-20140909	9/9/2014	1137	W	125 mL P	≤6° C	None		1		X	
08	MW-6-20140909	9/9/2014	1536	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
08	MW-6-20140909	9/9/2014	1536	W	125 mL P	≤6° C	None		1		X	

Relinquished By	Date	Received By	Date
Signature: [illegible]	9-9-14	Signature: [illegible]	9/9/14
Printed: K Carr Green	Time: 1700	Printed: Alex Marquez	Time: 1700
Company: AECOM		Company: ECI	
Reason:			

Relinquished By	Date	Received By	Date
Signature: [illegible]	9/9/14	Signature: [illegible]	9/9/14
Printed: Alex Marquez	Time: 1830	Printed: J. PATEL	Time: 1830
Company: ECI		Company: ECI	
Reason:			

Relinquished By	Date	Received By	Date
Signature:		Signature:	
Printed:	Time:	Printed:	Time:
Company:		Company:	
Reason:			

Comments:
Shipment summary: 19 samples, 1 cooler, 3 COC pages. TAT Type: 1 Week.
multiple Dilutions

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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AECOM

Chain-of-Custody Record

0658

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00011
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL 6
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/9/2014
Page: 2 of 3

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
09	G-4-20140909	9/9/2014	1048	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
09	G-4-20140909	9/9/2014	1048	W	125 mL P	≤6° C	None		1		X	
10	G-8-20140909	9/9/2014	1415	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
10	G-8-20140909	9/9/2014	1415	W	125 mL P	≤6° C	None		1		X	
11	G-3-20140909	9/9/2014	1327	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
11	G-3-20140909	9/9/2014	1327	W	125 mL P	≤6° C	None		1		X	
12	MW-11-20140909	9/9/2014	1229	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
12	MW-11-20140909	9/9/2014	1229	W	125 mL P	≤6° C	None		1		X	
13	G-1-20140909	9/9/2014	1106	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
13	G-1-20140909	9/9/2014	1106	W	125 mL P	≤6° C	None		1		X	
14	G-100-20140909	9/9/2014	1106	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
14	G-100-20140909	9/9/2014	1106	W	125 mL P	≤6° C	None		1		X	
15	G-02WC-20140909	9/9/2014	1415	W	125 mL P	≤6° C	None		1		X	
16	MW-12-20140909	9/9/2014	1112	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
16	MW-12-20140909	9/9/2014	1112	W	125 mL P	≤6° C	None		1		X	

Relinquished By	Date	Received By	Date	Relinquished By	Date	Received By	Date
Signature	9-9-14	Signature	9/9/14	Signature	9/9/14	Signature	9/9/14
Printed: K. Carr Green	Time 1700	Printed: ALEX MARQUEZ	Time 1700	Printed: ALEX MARQUEZ	Time 1830	Printed: S. PATEL	Time 1830
Company AECOM		Company ECI		Company ECI		Company ECI	
Reason:				Reason:			

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Comments:
Shipment summary: 19 samples, 1 cooler, 3 COC pages. TAT Type: 1 Week.

Multiple Dilutions

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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AECOM

Chain-of-Custody Record

0658

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Eurofins Calscience, Inc.
7440 Lincoln Way
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Client:
AECOM
3995 Via Oro Avenue
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Shipment Number: MT00011
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL 6
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/9/2014
Page: 3 of 3

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
17	BF-11-20140909	9/9/2014	0809	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
17	BF-11-20140909	9/9/2014	0809	W	125 mL P	≤6° C	None		1		X	
18	MW-4-20140909	9/9/2014	1509	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
18	MW-4-20140909	9/9/2014	1509	W	125 mL P	≤6° C	None		1		X	
19	BF-4-20140909	9/9/2014	1528	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
19	BF-4-20140909	9/9/2014	1528	W	125 mL P	≤6° C	None		1		X	

Relinquished By	Date	Received By	Date	Relinquished By	Date	Received By	Date
Signature: [signature]	9-9-14	Signature: [signature]	9/9/14	Signature: [signature]	9/9/14	Signature: [signature]	9/9/14
Printed: K Carr Green	Time 1700	Printed: ALEX MARQUEZ	Time 1700	Printed: ALEX MARQUEZ	Time 1830	Printed: S. PATEL	Time 1830 ~~1840~~
Company: AECOM		Company: ECC		Company: ECC		Company: ECI	
Reason:				Reason:			

Comments:
Shipment summary: 19 samples, 1 cooler, 3 COC pages. TAT Type: 1 Week.

multiple Dilutions

Relinquished By	Date	Received By	Date
Signature:		Signature:	
Printed:	Time	Printed:	Time
Company:		Company:	
Reason:			

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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WORK ORDER #: 14-09-0658

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AECOM

DATE: 09/9/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.0 °C - 0.3 °C (CF) = 2.7 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 678

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: 678

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 862

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOA**na**$_2$ ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na**$_2$ ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☑125PB ☐125PB**znna** ☐100PJ ☐100PJ**na**$_2$ ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 140928B **Labeled/Checked by:** 862

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 778

Preservative: **h:** HCL **n:** HNO_3 **na**$_2$:$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 778

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WORK ORDER #: 14-09-0658

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ Sample(s) NOT RECEIVED but listed on COC
- ☐ Sample(s) received but NOT LISTED on COC
- ☐ Holding time expired – list sample ID(s) and test
- ☐ Insufficient quantities for analysis – list test
- ☐ Improper container(s) used – list test
- ☐ Improper preservative used – list test
- ☐ No preservative noted on COC or label – list test & notify lab
- ☐ Sample labels illegible – note test/container type
- ☐ Sample label(s) do not match COC – Note in comments
  - ☐ Sample ID
  - ☑ Date and/or Time Collected
  - ☐ Project Information
  - ☐ # of Container(s)
  - ☐ Analysis
- ☐ Sample container(s) compromised – Note in comments
  - ☐ Water present in sample container
  - ☐ Broken
- ☐ Sample container(s) not labeled
- ☐ Air sample container(s) compromised – Note in comments
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (Not transferred - duplicate bag submitted)
  - ☐ Leaking (transferred into Calscience Tedlar® Bag*)
  - ☐ Leaking (transferred into Client's Tedlar® Bag*)
- ☐ Other: _____

(-18) Collection time per label is 15:03

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: 862 09/9/14

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Vikas Patel

From: CarrGreen, Katharine [Katharine.CarrGreen@aecom.com]
Sent: Wednesday, September 10, 2014 10:50 AM
To: Vikas Patel
Subject: RE: Montrose 2014 BL GW Sampling / 60288979.13.02 - 14-09-0658 - COC Document

The collection time is 15:09. I just spoke to the sampler and she said that her 9s are often mistaken for 3s.

Katharine

D: 562-213-4166
C: 310-569-1053

From: Vikas Patel [mailto:VikasPatel@eurofinsUS.com]
Sent: Wednesday, September 10, 2014 10:22 AM
To: CarrGreen, Katharine
Cc: Vikas Patel
Subject: Montrose 2014 BL GW Sampling / 60288979.13.02 - 14-09-0658 - COC Document

Katharine – Please confirm the collection time for sample MW-4-20140909. The collection time per sample container is 15:03.

Regards,

Vik Patel
Project Manager

Eurofins Calscience, Inc
7440 Lincoln Way
Garden Grove, CA 92841-1427
USA

Phone +1 714 895 5494
Fax +1 714 894 7501

Please note new e-mail adddress below, please update your records. Thank you.

Email: vikaspatel@eurofinsUS.com
Website: www.calscience.com

The information transmitted is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon this information by persons or entities other than the intended recipient is prohibited. If you receive this in error, please contact the sender and delete the material from any computer. Email transmission cannot be guaranteed to be secure or error free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete. The sender therefore is in no way liable for any errors or omissions in the content of this message which may arise as a result of email transmission. If verification is required, please request a hard copy. We take reasonable precautions to ensure our emails are free from viruses. You need, however, to verify that this email and any attachments are free of viruses, as we can take no responsibility for any computer viruses, which might be transferred by way of this email. We may monitor all email communication through our networks. If you contact us by email, we may store your name and address to facilitate communication.

Notify us here to report this email as spam.

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WORK ORDER NUMBER: 14-09-0659

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AECOM

Client Project Name: Montrose 2014 BL GW Sampling - 60288979.13.02

Attention: Katharine Carr Green
3995 Via Oro Ave
Long Beach, CA 90810-1869

Vikas Patel

Approved for release on 09/22/2014 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 14-09-0659

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Work Order Narrative

Work Order: 14-09-0659 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/09/14. They were assigned to Work Order 14-09-0659.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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QC Association Summary

Work Order: 14-09-0659

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
TB20140909-B	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S001	140912L003
MW17-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S001	140912L003
MW7-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S001	140912L003
BF-20-20140909	EPA 314.0 (M) pCBSA		N/A	IC 8	140910S02	140910L02
BF-20-20140909	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140911L01A
BF-20-20140909	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140912S028	140912L051

1 = Dilution analysis performed, no associated matrix QC

R = Rerun

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0659
		Project Name:	Montrose 2014 BL GW Sampling - 60288979.13.02
		Received:	09/09/14
Attn:	Katharine Carr Green		Page 1 of 1

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
MW17-20140909 (14-09-0659-2)						
Tert-Butyl Alcohol (TBA)	8.2	J	4.1*	ug/L	EPA 8260B	EPA 5030C
MW7-20140909 (14-09-0659-3)						
Tert-Butyl Alcohol (TBA)	230	J	200*	ug/L	EPA 8260B	EPA 5030C
BF-20-20140909 (14-09-0659-4)						
p-Chlorobenzenesulfonic Acid	79000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	52000		5000	ug/L	EPA 314.0 (M) pCBSA	N/A

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0659
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-20-20140909	**14-09-0659-4-E**	**09/09/14 08:30**	**Aqueous**	**IC 8**	**N/A**	**09/11/14 00:02**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	79000	5.0	0.46	1.00	E

BF-20-20140909	**14-09-0659-4-E**	**09/09/14 08:30**	**Aqueous**	**IC 8**	**N/A**	**09/11/14 16:34**	**140911L01A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	52000	5000	460	1000	

Method Blank	**099-15-080-38**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 15:57**	**140910L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

Method Blank	**099-15-080-40**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/11/14 11:31**	**140911L01A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0659
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB20140909-B	**14-09-0659-1-A**	**09/09/14 07:30**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 12:36**	**140912L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	97	80-128	
Toluene-d8	100	80-120	

MW17-20140909	**14-09-0659-2-A**	**09/09/14 08:11**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 13:05**	**140912L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	8.2	10	4.1	1.00	J
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0659
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW7-20140909	**14-09-0659-3-A**	**09/09/14 10:10**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 13:33**	**140912L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	25	14	50.0	
Tert-Butyl Alcohol (TBA)	230	500	200	50.0	J
Diisopropyl Ether (DIPE)	ND	25	12	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	25	11	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	25	12	50.0	
Ethanol	ND	2500	870	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	103	80-128	
Toluene-d8	97	80-120	

BF-20-20140909	**14-09-0659-4-A**	**09/09/14 08:30**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 08:05**	**140912L051**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	20	12	40.0	
Tert-Butyl Alcohol (TBA)	ND	400	160	40.0	
Diisopropyl Ether (DIPE)	ND	20	9.4	40.0	
Ethyl-t-Butyl Ether (ETBE)	ND	20	8.6	40.0	
Tert-Amyl-Methyl Ether (TAME)	ND	20	9.4	40.0	
Ethanol	ND	2000	690	40.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	96	80-127	
1,2-Dichloroethane-d4	99	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0659
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-69**	**N/A**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 12:07**	**140912L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	104	80-128	
Toluene-d8	100	80-120	

Method Blank	**099-15-234-72**	**N/A**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 00:30**	**140912L051**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	102	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0659
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 1 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0658-4	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 17:14**	**140910S02**
14-09-0658-4	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 20:09**	**140910S02**
14-09-0658-4	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 20:28**	**140910S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	25.00	20.34	81	20.02	80	70-130	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0659
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW17-20140909	**Sample**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 13:05**	**140912S001**
MW17-20140909	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 16:54**	**140912S001**
MW17-20140909	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 17:23**	**140912S001**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.237	92	9.861	99	67-121	7	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	60.56	121	55.81	112	36-162	8	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	10.20	102	10.76	108	60-138	5	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.360	94	9.948	99	69-123	6	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.053	91	9.708	97	65-120	7	0-20	
Ethanol	ND	100.0	127.0	127	129.8	130	30-180	2	0-72	

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RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0659
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 3 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW17-20140909	**Sample**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 13:05**	**140912S001**
MW17-20140909	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 16:54**	**140912S001**
MW17-20140909	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 17:23**	**140912S001**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.955	100	9.910	99	68-120	
Dibromofluoromethane	10.00	9.780	98	9.894	99	80-127	
1,2-Dichloroethane-d4	10.00	10.02	100	10.54	105	80-128	
Toluene-d8	10.00	10.03	100	9.867	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0659
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 4 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0658-3	**Sample**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 01:55**	**140912S028**
14-09-0658-3	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 06:40**	**140912S028**
14-09-0658-3	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 07:08**	**140912S028**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Methyl-t-Butyl Ether (MTBE)	ND	10.00	8.992	90	8.650	87	67-121	4	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	54.44	109	50.96	102	36-162	7	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	10.86	109	10.23	102	60-138	6	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.254	93	8.954	90	69-123	3	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	8.745	87	8.422	84	65-120	4	0-20	
Ethanol	ND	100.0	133.5	133	144.0	144	30-180	8	0-72	

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RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0659
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0658-3	**Sample**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 01:55**	**140912S028**
14-09-0658-3	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 06:40**	**140912S028**
14-09-0658-3	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/13/14 07:08**	**140912S028**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.33	103	9.904	99	68-120	
Dibromofluoromethane	10.00	10.10	101	9.454	95	80-127	
1,2-Dichloroethane-d4	10.00	9.744	97	9.592	96	80-128	
Toluene-d8	10.00	10.12	101	10.18	102	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0659
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 1 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-38	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/10/14 16:16**	**140910L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	25.14	101	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0659
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 2 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-080-40	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/11/14 11:50**	**140911L01A**
099-15-080-40	**LCSD**	**Aqueous**	**IC 8**	**N/A**	**09/11/14 12:10**	**140911L01A**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	24.40	98	26.09	104	80-120	7	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0659
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 3 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-69	**LCS**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 10:57**	**140912L003**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Methyl-t-Butyl Ether (MTBE)	10.00	8.965	90	69-123	
Tert-Butyl Alcohol (TBA)	50.00	49.70	99	63-123	
Diisopropyl Ether (DIPE)	10.00	10.14	101	59-137	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.154	92	69-123	
Tert-Amyl-Methyl Ether (TAME)	10.00	9.067	91	70-120	
Ethanol	100.0	140.4	140	28-160	

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RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0659
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 4 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-69	**LCS**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 10:57**	**140912L003**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.21	102	68-120	
Dibromofluoromethane	10.00	9.805	98	80-127	
1,2-Dichloroethane-d4	10.00	10.11	101	80-128	
Toluene-d8	10.00	9.699	97	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0659
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 5 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-72	**LCS**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 23:33**	**140912L051**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Methyl-t-Butyl Ether (MTBE)	10.00	8.882	89	69-123	
Tert-Butyl Alcohol (TBA)	50.00	49.19	98	63-123	
Diisopropyl Ether (DIPE)	10.00	10.03	100	59-137	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.012	90	69-123	
Tert-Amyl-Methyl Ether (TAME)	10.00	8.848	88	70-120	
Ethanol	100.0	123.0	123	28-160	

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RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/09/14
3995 Via Oro Ave		Work Order:	14-09-0659
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling - 60288979.13.02			Page 6 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-72	**LCS**	**Aqueous**	**GC/MS L**	**09/12/14**	**09/12/14 23:33**	**140912L051**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.982	100	68-120	
Dibromofluoromethane	10.00	9.168	92	80-127	
1,2-Dichloroethane-d4	10.00	9.401	94	80-128	
Toluene-d8	10.00	10.20	102	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-0659

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0 (M) pCBSA	N/A	811	IC 8	1
EPA 8260B	EPA 5030C	316	GC/MS L	2

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Glossary of Terms and Qualifiers

Work Order: 14-09-0659

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AECOM

Chain-of-Custody Record

14-09-0659

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00012
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL7
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/9/2014
Page: 1 of 1

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	FO (8260B)	pCBSA (Mod. 314.0)	Remarks
01	TB20140909-B	9/9/2014	0730	W	40 mL VOA	≤6° C	HCl pH < 2		3 4	X		
02	MW17-20140909	9/9/2014	0811	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
03	MW7-20140909	9/9/2014	1010	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
04	BF-20-20140909	9/9/2014	0830	W	125 mL P	≤6° C	None		1		X	
04	BF-20-20140909	9/9/2014	0830	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		

Analyses Requested

Relinquished By	Date	Received By	Date
Signature	9/9/14	Signature	9/9/14
Printed: K. Carr Green	Time 1700	Printed: Alex Marquez	Time 1700
Company AECOM		Company ECI	
Reason:			

Relinquished By	Date	Received By	Date
Signature	9/9/14	Signature	9/9/14
Printed: Alex Marquez	Time 1830	Printed: J. PATEL	Time 1830
Company ECI		Company ECI	
Reason:			

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Comments:
Shipment summary: 4 samples, 1 cooler, 1 COC page. TAT Type: 1 Week.

Multiple Dilutions -

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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WORK ORDER #: 14-09-0659

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AECOM

DATE: 09/9/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.0 °C - 0.3 °C (CF) = 2.7 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** 678

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Checked by:** 678

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** 862

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☑125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 140828B **Labeled/Checked by:** 862

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 739

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 739

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WORK ORDER NUMBER: 14-09-0760

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AECOM

Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02

Attention: Katharine Carr Green
3995 Via Oro Ave
Long Beach, CA 90810-1869

Vikas Patel

Approved for release on 09/22/2014 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Narrative

Work Order: 14-09-0760 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/10/14. They were assigned to Work Order 14-09-0760.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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CASE NARRATIVE

Eurofins Calscience Work Order 14-09-0760

EPA Method 8260B Volatile Organics:

Bromoform failed low in the LCS and MS/MSD for batch 140915L003 / 140915S002.

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QC Association Summary

Work Order: 14-09-0760

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
TB-20140910	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140915S002	140915L003
EB-20140910	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S01	140912L01
EB-20140910	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140915S002	140915L003
SWL0063-20140910	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S01	140912L01
LW-2-20140910	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S01	140912L01
LW-2-20140910	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140915S002	140915L003
LW-1-20140910	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S01	140912L01
LW-1-20140910	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140915S002	140915L003
LW-100-20140910	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S01	140912L01
LW-100-20140910	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140915S002	140915L003
BF-31-20140910	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S01A	140912L01
BF-31-20140910	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140915S010	140915L023
G-17-20140910	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S01	140912L01
G-17-20140910	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140916S035	140916L035
G-17-20140910	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140915S010	140915L023
G-1700-20140910	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S01	140912L01
G-1700-20140910	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140916S035	140916L035
G-1700-20140910	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140915S010	140915L023
G-5-20140910	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S01	140912L01
G-5-20140910	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140916S035	140916L035
G-5-20140910	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140915S010	140915L023
G-2-20140910	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S01	140912L01
G-2-20140910	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140916S035	140916L035
G-2-20140910	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140915S010	140915L023
BF-9-20140910	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S01	140912L01
BF-9-20140910	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140916S035	140916L035
BF-9-20140910	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140915S010	140915L023
BF-2-20140910	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S01	140912L01
BF-2-20140910	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140916S035	140916L035
BF-2-20140910	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140915S010	140915L023
MW-1-20140910	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S01	140912L01
MW-1-20140910	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140916S035	140916L035
MW-1-20140910	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140915S010	140915L023
MW-2-20140910	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S01	140912L01
MW-2-20140910	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140916S035	140916L035
MW-2-20140910	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140915S010	140915L023

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R = Rerun

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0760
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/10/14
Attn:	Katharine Carr Green		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
EB-20140910 (14-09-0760-2)						
Chlorobenzene	0.22	J	0.14*	ug/L	EPA 8260B	EPA 5030C
LW-1-20140910 (14-09-0760-5)						
p-Chlorobenzenesulfonic Acid	9.5		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	3.0		0.50	ug/L	EPA 8260B	EPA 5030C
LW-100-20140910 (14-09-0760-6)						
p-Chlorobenzenesulfonic Acid	8.2		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	3.4		0.50	ug/L	EPA 8260B	EPA 5030C
BF-31-20140910 (14-09-0760-7)						
p-Chlorobenzenesulfonic Acid	350		25	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	0.50		0.50	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	1.8		0.50	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloropropane	0.50		0.50	ug/L	EPA 8260B	EPA 5030C
G-17-20140910 (14-09-0760-8)						
p-Chlorobenzenesulfonic Acid	3400		500	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	1.3		0.50	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	140	E	0.50	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	150		10	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	5.2		0.50	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	0.84		0.50	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	5.3		0.50	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	0.24	J	0.22*	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	20		0.50	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	0.29	J	0.27*	ug/L	EPA 8260B	EPA 5030C
Tert-Butyl Alcohol (TBA)	6.8	J	4.1*	ug/L	EPA 8260B	EPA 5030C
G-1700-20140910 (14-09-0760-9)						
p-Chlorobenzenesulfonic Acid	3600		500	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	1.2		0.50	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	140	E	0.50	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	160		10	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	5.3		0.50	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	0.88		0.50	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	5.2		0.50	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	0.22	J	0.22*	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	19		0.50	ug/L	EPA 8260B	EPA 5030C
Vinyl Chloride	0.27	J	0.27*	ug/L	EPA 8260B	EPA 5030C
Tert-Butyl Alcohol (TBA)	4.6	J	4.1*	ug/L	EPA 8260B	EPA 5030C

* MDL is shown

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0760
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/10/14
Attn:	Katharine Carr Green		Page 2 of 3

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
G-5-20140910 (14-09-0760-10)						
p-Chlorobenzenesulfonic Acid	38000		5000	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	11		10	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	2800	E	10	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	3000		100	ug/L	EPA 8260B	EPA 5030C
G-2-20140910 (14-09-0760-11)						
p-Chlorobenzenesulfonic Acid	29000		5000	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	7.7	J	6.5*	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	3700	E	10	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	3400		500	ug/L	EPA 8260B	EPA 5030C
BF-9-20140910 (14-09-0760-12)						
p-Chlorobenzenesulfonic Acid	82000		10000	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	13000	E	40	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	12000		500	ug/L	EPA 8260B	EPA 5030C
Chloroform	930		40	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	36	J	18*	ug/L	EPA 8260B	EPA 5030C
BF-2-20140910 (14-09-0760-13)						
p-Chlorobenzenesulfonic Acid	98000		10000	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	11000	E	25	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	10000		2000	ug/L	EPA 8260B	EPA 5030C
Chloroform	12	J	11*	ug/L	EPA 8260B	EPA 5030C
1,4-Dichlorobenzene	24	J	16*	ug/L	EPA 8260B	EPA 5030C
MW-1-20140910 (14-09-0760-14)						
p-Chlorobenzenesulfonic Acid	500000		50000	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	2400		250	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	100000	E	250	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	100000		5000	ug/L	EPA 8260B	EPA 5030C
Chloroform	13000		250	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	120	J	92*	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	1300		250	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	180	J	120*	ug/L	EPA 8260B	EPA 5030C
MW-2-20140910 (14-09-0760-15)						
p-Chlorobenzenesulfonic Acid	520000		50000	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	350000	E	1000	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	350000		10000	ug/L	EPA 8260B	EPA 5030C
Chloroform	31000		1000	ug/L	EPA 8260B	EPA 5030C

* MDL is shown

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0760
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/10/14
Attn:	Katharine Carr Green		Page 3 of 3

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140910	**14-09-0760-2-D**	**09/10/14 10:00**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 12:47**	**140912L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

SWL0063-20140910	**14-09-0760-3-A**	**09/10/14 15:05**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 13:06**	**140912L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

LW-2-20140910	**14-09-0760-4-I**	**09/10/14 11:41**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 13:25**	**140912L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

LW-1-20140910	**14-09-0760-5-E**	**09/10/14 13:45**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 14:24**	**140912L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	9.5	5.0	0.46	1.00	

LW-100-20140910	**14-09-0760-6-E**	**09/10/14 13:45**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 14:43**	**140912L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	8.2	5.0	0.46	1.00	

BF-31-20140910	**14-09-0760-7-I**	**09/10/14 09:18**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 15:02**	**140912L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	350	25	2.3	5.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-17-20140910	**14-09-0760-8-E**	**09/10/14 08:08**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 16:01**	**140912L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	3400	500	46	100	

G-1700-20140910	**14-09-0760-9-E**	**09/10/14 08:08**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 16:20**	**140912L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	3600	500	46	100	

G-5-20140910	**14-09-0760-10-E**	**09/10/14 11:47**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 16:39**	**140912L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	38000	5000	460	1000	

G-2-20140910	**14-09-0760-11-E**	**09/10/14 14:47**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 16:59**	**140912L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	29000	5000	460	1000	

BF-9-20140910	**14-09-0760-12-E**	**09/10/14 14:07**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 18:25**	**140912L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	82000	10000	920	2000	

BF-2-20140910	**14-09-0760-13-E**	**09/10/14 09:45**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 18:44**	**140912L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	98000	10000	920	2000	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1-20140910	**14-09-0760-14-E**	**09/10/14 16:00**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 19:04**	**140912L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	500000	50000	4600	10000	

MW-2-20140910	**14-09-0760-15-E**	**09/10/14 15:01**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 19:23**	**140912L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	520000	50000	4600	10000	

Method Blank	**099-15-080-42**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 11:26**	**140912L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 51

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-20140910	**14-09-0760-1-A**	**09/10/14 07:45**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 13:11**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 51

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/10/14
3995 Via Oro Ave	Work Order:	14-09-0760
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 3 of 51

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	68-120	
Dibromofluoromethane	91	80-127	
1,2-Dichloroethane-d4	88	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 51

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140910	**14-09-0760-2-A**	**09/10/14 10:00**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 13:40**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	0.22	0.50	0.14	1.00	J
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 51

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/10/14
3995 Via Oro Ave	Work Order:	14-09-0760
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 6 of 51

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	68-120	
Dibromofluoromethane	96	80-127	
1,2-Dichloroethane-d4	96	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 51

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
LW-2-20140910	**14-09-0760-4-A**	**09/10/14 11:41**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 14:08**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 51

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/10/14
3995 Via Oro Ave	Work Order:	14-09-0760
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 9 of 51

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	103	80-128	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 51

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
LW-1-20140910	**14-09-0760-5-A**	**09/10/14 13:45**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 14:37**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	3.0	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 51

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/10/14
3995 Via Oro Ave	Work Order:	14-09-0760
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 12 of 51

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	105	80-127	
1,2-Dichloroethane-d4	104	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 13 of 51

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
LW-100-20140910	**14-09-0760-6-A**	**09/10/14 13:45**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 15:05**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	3.4	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 14 of 51

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/10/14
3995 Via Oro Ave	Work Order:	14-09-0760
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 15 of 51

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	68-120	
Dibromofluoromethane	107	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 16 of 51

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-31-20140910	**14-09-0760-7-A**	**09/10/14 09:18**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/16/14 01:04**	**140915L023**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	0.50	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	1.8	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	0.50	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 17 of 51

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/10/14
3995 Via Oro Ave	Work Order:	14-09-0760
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 18 of 51

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	109	80-127	
1,2-Dichloroethane-d4	106	80-128	
Toluene-d8	104	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 19 of 51

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-17-20140910	**14-09-0760-8-B**	**09/10/14 08:08**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 04:28**	**140916L035**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	1.3	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	140	0.50	0.14	1.00	E
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	5.2	0.50	0.18	1.00	
1,1-Dichloroethene	0.84	0.50	0.20	1.00	
c-1,2-Dichloroethene	5.3	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 20 of 51

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	0.24	0.50	0.22	1.00	J
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	20	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	0.29	0.50	0.27	1.00	J
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	6.8	10	4.1	1.00	J
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 21 of 51

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	99	80-128	
Toluene-d8	100	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-17-20140910	**14-09-0760-8-A**	**09/10/14 08:08**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/16/14 01:32**	**140915L023**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	150	10	2.9	20.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	68-120	
Dibromofluoromethane	110	80-127	
1,2-Dichloroethane-d4	111	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 22 of 51

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-1700-20140910	**14-09-0760-9-B**	**09/10/14 08:08**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 04:57**	**140916L035**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	1.2	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	140	0.50	0.14	1.00	E
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	5.3	0.50	0.18	1.00	
1,1-Dichloroethene	0.88	0.50	0.20	1.00	
c-1,2-Dichloroethene	5.2	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 23 of 51

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	0.22	0.50	0.22	1.00	J
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	19	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	0.27	0.50	0.27	1.00	J
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	4.6	10	4.1	1.00	J
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 24 of 51

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	96	80-128	
Toluene-d8	101	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-1700-20140910	**14-09-0760-9-A**	**09/10/14 08:08**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/16/14 02:00**	**140915L023**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	160	10	2.9	20.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	107	80-127	
1,2-Dichloroethane-d4	108	80-128	
Toluene-d8	104	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 25 of 51

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-5-20140910	**14-09-0760-10-B**	**09/10/14 11:47**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 05:25**	**140916L035**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	200	71	20.0	
Benzene	11	10	6.5	20.0	
Bromobenzene	ND	10	6.6	20.0	
Bromochloromethane	ND	20	7.6	20.0	
Bromodichloromethane	ND	10	3.9	20.0	
Bromoform	ND	10	6.7	20.0	
Bromomethane	ND	20	7.6	20.0	
2-Butanone	ND	100	58	20.0	
n-Butylbenzene	ND	10	6.8	20.0	
sec-Butylbenzene	ND	10	4.5	20.0	
tert-Butylbenzene	ND	10	7.6	20.0	
Carbon Disulfide	ND	20	8.8	20.0	
Carbon Tetrachloride	ND	10	4.3	20.0	
Chlorobenzene	2800	10	2.9	20.0	E
Chloroethane	ND	10	6.8	20.0	
Chloroform	ND	10	4.3	20.0	
Chloromethane	ND	10	4.3	20.0	
2-Chlorotoluene	ND	10	6.8	20.0	
4-Chlorotoluene	ND	10	6.6	20.0	
Dibromochloromethane	ND	10	4.7	20.0	
1,2-Dibromo-3-Chloropropane	ND	100	58	20.0	
1,2-Dibromoethane	ND	10	6.7	20.0	
Dibromomethane	ND	10	6.9	20.0	
1,2-Dichlorobenzene	ND	10	3.4	20.0	
1,3-Dichlorobenzene	ND	10	3.4	20.0	
1,4-Dichlorobenzene	ND	10	6.2	20.0	
Dichlorodifluoromethane	ND	20	4.7	20.0	
1,1-Dichloroethane	ND	10	3.8	20.0	
1,2-Dichloroethane	ND	10	3.7	20.0	
1,1-Dichloroethene	ND	10	4.0	20.0	
c-1,2-Dichloroethene	ND	10	4.9	20.0	
t-1,2-Dichloroethene	ND	10	5.2	20.0	
1,2-Dichloropropane	ND	10	4.8	20.0	
1,3-Dichloropropane	ND	20	4.8	20.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 26 of 51

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	20	8.5	20.0	
1,1-Dichloropropene	ND	10	5.6	20.0	
c-1,3-Dichloropropene	ND	10	3.7	20.0	
t-1,3-Dichloropropene	ND	10	7.0	20.0	
Ethylbenzene	ND	10	6.3	20.0	
2-Hexanone	ND	200	52	20.0	
Isopropylbenzene	ND	10	8.3	20.0	
p-Isopropyltoluene	ND	10	2.7	20.0	
Methylene Chloride	ND	20	7.7	20.0	
4-Methyl-2-Pentanone	ND	100	54	20.0	
Naphthalene	ND	20	8.1	20.0	
n-Propylbenzene	ND	10	7.6	20.0	
Styrene	ND	10	6.5	20.0	
1,1,1,2-Tetrachloroethane	ND	10	4.7	20.0	
1,1,2,2-Tetrachloroethane	ND	10	4.4	20.0	
Tetrachloroethene	ND	10	4.3	20.0	
Toluene	ND	10	5.3	20.0	
1,2,3-Trichlorobenzene	ND	10	5.0	20.0	
1,2,4-Trichlorobenzene	ND	10	5.0	20.0	
1,1,1-Trichloroethane	ND	10	3.8	20.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	5.1	20.0	
1,1,2-Trichloroethane	ND	10	6.5	20.0	
Trichloroethene	ND	10	4.6	20.0	
Trichlorofluoromethane	ND	10	5.0	20.0	
1,2,3-Trichloropropane	ND	20	5.0	20.0	
1,2,4-Trimethylbenzene	ND	10	3.0	20.0	
1,3,5-Trimethylbenzene	ND	10	6.6	20.0	
Vinyl Acetate	ND	100	45	20.0	
Vinyl Chloride	ND	10	5.4	20.0	
p/m-Xylene	ND	10	4.7	20.0	
o-Xylene	ND	10	7.8	20.0	
Methyl-t-Butyl Ether (MTBE)	ND	10	5.8	20.0	
Tert-Butyl Alcohol (TBA)	ND	200	82	20.0	
Diisopropyl Ether (DIPE)	ND	10	4.7	20.0	
Ethyl-t-Butyl Ether (ETBE)	ND	10	4.3	20.0	
Tert-Amyl-Methyl Ether (TAME)	ND	10	4.7	20.0	
Ethanol	ND	1000	350	20.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 27 of 51

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	101	80-128	
Toluene-d8	101	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-5-20140910	**14-09-0760-10-A**	**09/10/14 11:47**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/16/14 02:29**	**140915L023**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	3000	100	29	200	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	113	80-127	
1,2-Dichloroethane-d4	110	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 28 of 51

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-2-20140910	**14-09-0760-11-B**	**09/10/14 14:47**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 05:53**	**140916L035**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	200	71	20.0	
Benzene	7.7	10	6.5	20.0	J
Bromobenzene	ND	10	6.6	20.0	
Bromochloromethane	ND	20	7.6	20.0	
Bromodichloromethane	ND	10	3.9	20.0	
Bromoform	ND	10	6.7	20.0	
Bromomethane	ND	20	7.6	20.0	
2-Butanone	ND	100	58	20.0	
n-Butylbenzene	ND	10	6.8	20.0	
sec-Butylbenzene	ND	10	4.5	20.0	
tert-Butylbenzene	ND	10	7.6	20.0	
Carbon Disulfide	ND	20	8.8	20.0	
Carbon Tetrachloride	ND	10	4.3	20.0	
Chlorobenzene	3700	10	2.9	20.0	E
Chloroethane	ND	10	6.8	20.0	
Chloroform	ND	10	4.3	20.0	
Chloromethane	ND	10	4.3	20.0	
2-Chlorotoluene	ND	10	6.8	20.0	
4-Chlorotoluene	ND	10	6.6	20.0	
Dibromochloromethane	ND	10	4.7	20.0	
1,2-Dibromo-3-Chloropropane	ND	100	58	20.0	
1,2-Dibromoethane	ND	10	6.7	20.0	
Dibromomethane	ND	10	6.9	20.0	
1,2-Dichlorobenzene	ND	10	3.4	20.0	
1,3-Dichlorobenzene	ND	10	3.4	20.0	
1,4-Dichlorobenzene	ND	10	6.2	20.0	
Dichlorodifluoromethane	ND	20	4.7	20.0	
1,1-Dichloroethane	ND	10	3.8	20.0	
1,2-Dichloroethane	ND	10	3.7	20.0	
1,1-Dichloroethene	ND	10	4.0	20.0	
c-1,2-Dichloroethene	ND	10	4.9	20.0	
t-1,2-Dichloroethene	ND	10	5.2	20.0	
1,2-Dichloropropane	ND	10	4.8	20.0	
1,3-Dichloropropane	ND	20	4.8	20.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 29 of 51

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	20	8.5	20.0	
1,1-Dichloropropene	ND	10	5.6	20.0	
c-1,3-Dichloropropene	ND	10	3.7	20.0	
t-1,3-Dichloropropene	ND	10	7.0	20.0	
Ethylbenzene	ND	10	6.3	20.0	
2-Hexanone	ND	200	52	20.0	
Isopropylbenzene	ND	10	8.3	20.0	
p-Isopropyltoluene	ND	10	2.7	20.0	
Methylene Chloride	ND	20	7.7	20.0	
4-Methyl-2-Pentanone	ND	100	54	20.0	
Naphthalene	ND	20	8.1	20.0	
n-Propylbenzene	ND	10	7.6	20.0	
Styrene	ND	10	6.5	20.0	
1,1,1,2-Tetrachloroethane	ND	10	4.7	20.0	
1,1,2,2-Tetrachloroethane	ND	10	4.4	20.0	
Tetrachloroethene	ND	10	4.3	20.0	
Toluene	ND	10	5.3	20.0	
1,2,3-Trichlorobenzene	ND	10	5.0	20.0	
1,2,4-Trichlorobenzene	ND	10	5.0	20.0	
1,1,1-Trichloroethane	ND	10	3.8	20.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	5.1	20.0	
1,1,2-Trichloroethane	ND	10	6.5	20.0	
Trichloroethene	ND	10	4.6	20.0	
Trichlorofluoromethane	ND	10	5.0	20.0	
1,2,3-Trichloropropane	ND	20	5.0	20.0	
1,2,4-Trimethylbenzene	ND	10	3.0	20.0	
1,3,5-Trimethylbenzene	ND	10	6.6	20.0	
Vinyl Acetate	ND	100	45	20.0	
Vinyl Chloride	ND	10	5.4	20.0	
p/m-Xylene	ND	10	4.7	20.0	
o-Xylene	ND	10	7.8	20.0	
Methyl-t-Butyl Ether (MTBE)	ND	10	5.8	20.0	
Tert-Butyl Alcohol (TBA)	ND	200	82	20.0	
Diisopropyl Ether (DIPE)	ND	10	4.7	20.0	
Ethyl-t-Butyl Ether (ETBE)	ND	10	4.3	20.0	
Tert-Amyl-Methyl Ether (TAME)	ND	10	4.7	20.0	
Ethanol	ND	1000	350	20.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 30 of 51

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	95	80-128	
Toluene-d8	101	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-2-20140910	**14-09-0760-11-A**	**09/10/14 14:47**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/16/14 02:57**	**140915L023**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	3400	500	140	1000	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	110	80-127	
1,2-Dichloroethane-d4	112	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 31 of 51

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-9-20140910	**14-09-0760-12-B**	**09/10/14 14:07**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 06:22**	**140916L035**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	800	280	80.0	
Benzene	ND	40	26	80.0	
Bromobenzene	ND	40	26	80.0	
Bromochloromethane	ND	80	30	80.0	
Bromodichloromethane	ND	40	16	80.0	
Bromoform	ND	40	27	80.0	
Bromomethane	ND	80	30	80.0	
2-Butanone	ND	400	230	80.0	
n-Butylbenzene	ND	40	27	80.0	
sec-Butylbenzene	ND	40	18	80.0	
tert-Butylbenzene	ND	40	30	80.0	
Carbon Disulfide	ND	80	35	80.0	
Carbon Tetrachloride	ND	40	17	80.0	
Chlorobenzene	13000	40	12	80.0	E
Chloroethane	ND	40	27	80.0	
Chloroform	930	40	17	80.0	
Chloromethane	ND	40	17	80.0	
2-Chlorotoluene	ND	40	27	80.0	
4-Chlorotoluene	ND	40	26	80.0	
Dibromochloromethane	ND	40	19	80.0	
1,2-Dibromo-3-Chloropropane	ND	400	230	80.0	
1,2-Dibromoethane	ND	40	27	80.0	
Dibromomethane	ND	40	28	80.0	
1,2-Dichlorobenzene	ND	40	14	80.0	
1,3-Dichlorobenzene	ND	40	14	80.0	
1,4-Dichlorobenzene	ND	40	25	80.0	
Dichlorodifluoromethane	ND	80	19	80.0	
1,1-Dichloroethane	ND	40	15	80.0	
1,2-Dichloroethane	ND	40	15	80.0	
1,1-Dichloroethene	ND	40	16	80.0	
c-1,2-Dichloroethene	ND	40	20	80.0	
t-1,2-Dichloroethene	ND	40	21	80.0	
1,2-Dichloropropane	ND	40	19	80.0	
1,3-Dichloropropane	ND	80	19	80.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 32 of 51

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	80	34	80.0	
1,1-Dichloropropene	ND	40	22	80.0	
c-1,3-Dichloropropene	ND	40	15	80.0	
t-1,3-Dichloropropene	ND	40	28	80.0	
Ethylbenzene	ND	40	25	80.0	
2-Hexanone	ND	800	210	80.0	
Isopropylbenzene	ND	40	33	80.0	
p-Isopropyltoluene	ND	40	11	80.0	
Methylene Chloride	ND	80	31	80.0	
4-Methyl-2-Pentanone	ND	400	220	80.0	
Naphthalene	ND	80	33	80.0	
n-Propylbenzene	ND	40	30	80.0	
Styrene	ND	40	26	80.0	
1,1,1,2-Tetrachloroethane	ND	40	19	80.0	
1,1,2,2-Tetrachloroethane	ND	40	18	80.0	
Tetrachloroethene	ND	40	17	80.0	
Toluene	ND	40	21	80.0	
1,2,3-Trichlorobenzene	ND	40	20	80.0	
1,2,4-Trichlorobenzene	ND	40	20	80.0	
1,1,1-Trichloroethane	ND	40	15	80.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	40	20	80.0	
1,1,2-Trichloroethane	ND	40	26	80.0	
Trichloroethene	36	40	18	80.0	J
Trichlorofluoromethane	ND	40	20	80.0	
1,2,3-Trichloropropane	ND	80	20	80.0	
1,2,4-Trimethylbenzene	ND	40	12	80.0	
1,3,5-Trimethylbenzene	ND	40	27	80.0	
Vinyl Acetate	ND	400	180	80.0	
Vinyl Chloride	ND	40	22	80.0	
p/m-Xylene	ND	40	19	80.0	
o-Xylene	ND	40	31	80.0	
Methyl-t-Butyl Ether (MTBE)	ND	40	23	80.0	
Tert-Butyl Alcohol (TBA)	ND	800	330	80.0	
Diisopropyl Ether (DIPE)	ND	40	19	80.0	
Ethyl-t-Butyl Ether (ETBE)	ND	40	17	80.0	
Tert-Amyl-Methyl Ether (TAME)	ND	40	19	80.0	
Ethanol	ND	4000	1400	80.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 33 of 51

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	68-120	
Dibromofluoromethane	105	80-127	
1,2-Dichloroethane-d4	103	80-128	
Toluene-d8	99	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-9-20140910	**14-09-0760-12-A**	**09/10/14 14:07**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/16/14 03:26**	**140915L023**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	12000	500	140	1000	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	68-120	
Dibromofluoromethane	113	80-127	
1,2-Dichloroethane-d4	112	80-128	
Toluene-d8	104	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 34 of 51

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-2-20140910	**14-09-0760-13-B**	**09/10/14 09:45**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 06:50**	**140916L035**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	500	180	50.0	
Benzene	ND	25	16	50.0	
Bromobenzene	ND	25	16	50.0	
Bromochloromethane	ND	50	19	50.0	
Bromodichloromethane	ND	25	9.8	50.0	
Bromoform	ND	25	17	50.0	
Bromomethane	ND	50	19	50.0	
2-Butanone	ND	250	140	50.0	
n-Butylbenzene	ND	25	17	50.0	
sec-Butylbenzene	ND	25	11	50.0	
tert-Butylbenzene	ND	25	19	50.0	
Carbon Disulfide	ND	50	22	50.0	
Carbon Tetrachloride	ND	25	11	50.0	
Chlorobenzene	11000	25	7.2	50.0	E
Chloroethane	ND	25	17	50.0	
Chloroform	12	25	11	50.0	J
Chloromethane	ND	25	11	50.0	
2-Chlorotoluene	ND	25	17	50.0	
4-Chlorotoluene	ND	25	16	50.0	
Dibromochloromethane	ND	25	12	50.0	
1,2-Dibromo-3-Chloropropane	ND	250	140	50.0	
1,2-Dibromoethane	ND	25	17	50.0	
Dibromomethane	ND	25	17	50.0	
1,2-Dichlorobenzene	ND	25	8.5	50.0	
1,3-Dichlorobenzene	ND	25	8.5	50.0	
1,4-Dichlorobenzene	24	25	16	50.0	J
Dichlorodifluoromethane	ND	50	12	50.0	
1,1-Dichloroethane	ND	25	9.5	50.0	
1,2-Dichloroethane	ND	25	9.2	50.0	
1,1-Dichloroethene	ND	25	10	50.0	
c-1,2-Dichloroethene	ND	25	12	50.0	
t-1,2-Dichloroethene	ND	25	13	50.0	
1,2-Dichloropropane	ND	25	12	50.0	
1,3-Dichloropropane	ND	50	12	50.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 35 of 51

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	50	21	50.0	
1,1-Dichloropropene	ND	25	14	50.0	
c-1,3-Dichloropropene	ND	25	9.2	50.0	
t-1,3-Dichloropropene	ND	25	17	50.0	
Ethylbenzene	ND	25	16	50.0	
2-Hexanone	ND	500	130	50.0	
Isopropylbenzene	ND	25	21	50.0	
p-Isopropyltoluene	ND	25	6.8	50.0	
Methylene Chloride	ND	50	19	50.0	
4-Methyl-2-Pentanone	ND	250	140	50.0	
Naphthalene	ND	50	20	50.0	
n-Propylbenzene	ND	25	19	50.0	
Styrene	ND	25	16	50.0	
1,1,1,2-Tetrachloroethane	ND	25	12	50.0	
1,1,2,2-Tetrachloroethane	ND	25	11	50.0	
Tetrachloroethene	ND	25	11	50.0	
Toluene	ND	25	13	50.0	
1,2,3-Trichlorobenzene	ND	25	12	50.0	
1,2,4-Trichlorobenzene	ND	25	12	50.0	
1,1,1-Trichloroethane	ND	25	9.5	50.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	25	13	50.0	
1,1,2-Trichloroethane	ND	25	16	50.0	
Trichloroethene	ND	25	12	50.0	
Trichlorofluoromethane	ND	25	12	50.0	
1,2,3-Trichloropropane	ND	50	12	50.0	
1,2,4-Trimethylbenzene	ND	25	7.5	50.0	
1,3,5-Trimethylbenzene	ND	25	17	50.0	
Vinyl Acetate	ND	250	110	50.0	
Vinyl Chloride	ND	25	14	50.0	
p/m-Xylene	ND	25	12	50.0	
o-Xylene	ND	25	20	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	25	14	50.0	
Tert-Butyl Alcohol (TBA)	ND	500	200	50.0	
Diisopropyl Ether (DIPE)	ND	25	12	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	25	11	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	25	12	50.0	
Ethanol	ND	2500	870	50.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 36 of 51

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	97	80-128	
Toluene-d8	101	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-2-20140910	**14-09-0760-13-A**	**09/10/14 09:45**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/16/14 03:54**	**140915L023**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	10000	2000	580	4000	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	68-120	
Dibromofluoromethane	105	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	104	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 37 of 51

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1-20140910	**14-09-0760-14-B**	**09/10/14 16:00**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 07:19**	**140916L035**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	5000	1800	500	
Benzene	2400	250	160	500	
Bromobenzene	ND	250	160	500	
Bromochloromethane	ND	500	190	500	
Bromodichloromethane	ND	250	98	500	
Bromoform	ND	250	170	500	
Bromomethane	ND	500	190	500	
2-Butanone	ND	2500	1400	500	
n-Butylbenzene	ND	250	170	500	
sec-Butylbenzene	ND	250	110	500	
tert-Butylbenzene	ND	250	190	500	
Carbon Disulfide	ND	500	220	500	
Carbon Tetrachloride	ND	250	110	500	
Chlorobenzene	100000	250	72	500	E
Chloroethane	ND	250	170	500	
Chloroform	13000	250	110	500	
Chloromethane	ND	250	110	500	
2-Chlorotoluene	ND	250	170	500	
4-Chlorotoluene	ND	250	160	500	
Dibromochloromethane	ND	250	120	500	
1,2-Dibromo-3-Chloropropane	ND	2500	1400	500	
1,2-Dibromoethane	ND	250	170	500	
Dibromomethane	ND	250	170	500	
1,2-Dichlorobenzene	ND	250	85	500	
1,3-Dichlorobenzene	ND	250	85	500	
1,4-Dichlorobenzene	ND	250	160	500	
Dichlorodifluoromethane	ND	500	120	500	
1,1-Dichloroethane	ND	250	95	500	
1,2-Dichloroethane	120	250	92	500	J
1,1-Dichloroethene	ND	250	100	500	
c-1,2-Dichloroethene	ND	250	120	500	
t-1,2-Dichloroethene	ND	250	130	500	
1,2-Dichloropropane	ND	250	120	500	
1,3-Dichloropropane	ND	500	120	500	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 38 of 51

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	500	210	500	
1,1-Dichloropropene	ND	250	140	500	
c-1,3-Dichloropropene	ND	250	92	500	
t-1,3-Dichloropropene	ND	250	170	500	
Ethylbenzene	ND	250	160	500	
2-Hexanone	ND	5000	1300	500	
Isopropylbenzene	ND	250	210	500	
p-Isopropyltoluene	ND	250	68	500	
Methylene Chloride	ND	500	190	500	
4-Methyl-2-Pentanone	ND	2500	1400	500	
Naphthalene	ND	500	200	500	
n-Propylbenzene	ND	250	190	500	
Styrene	ND	250	160	500	
1,1,1,2-Tetrachloroethane	ND	250	120	500	
1,1,2,2-Tetrachloroethane	ND	250	110	500	
Tetrachloroethene	1300	250	110	500	
Toluene	ND	250	130	500	
1,2,3-Trichlorobenzene	ND	250	120	500	
1,2,4-Trichlorobenzene	ND	250	120	500	
1,1,1-Trichloroethane	ND	250	95	500	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	250	130	500	
1,1,2-Trichloroethane	ND	250	160	500	
Trichloroethene	180	250	120	500	J
Trichlorofluoromethane	ND	250	120	500	
1,2,3-Trichloropropane	ND	500	120	500	
1,2,4-Trimethylbenzene	ND	250	75	500	
1,3,5-Trimethylbenzene	ND	250	170	500	
Vinyl Acetate	ND	2500	1100	500	
Vinyl Chloride	ND	250	140	500	
p/m-Xylene	ND	250	120	500	
o-Xylene	ND	250	200	500	
Methyl-t-Butyl Ether (MTBE)	ND	250	140	500	
Tert-Butyl Alcohol (TBA)	ND	5000	2000	500	
Diisopropyl Ether (DIPE)	ND	250	120	500	
Ethyl-t-Butyl Ether (ETBE)	ND	250	110	500	
Tert-Amyl-Methyl Ether (TAME)	ND	250	120	500	
Ethanol	ND	25000	8700	500	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 39 of 51

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	94	80-128	
Toluene-d8	101	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1-20140910	**14-09-0760-14-A**	**09/10/14 16:00**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/16/14 04:22**	**140915L023**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	100000	5000	1400	10000	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	111	80-127	
1,2-Dichloroethane-d4	113	80-128	
Toluene-d8	106	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 40 of 51

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2-20140910	**14-09-0760-15-B**	**09/10/14 15:01**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 07:47**	**140916L035**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20000	7100	2000	
Benzene	ND	1000	650	2000	
Bromobenzene	ND	1000	660	2000	
Bromochloromethane	ND	2000	760	2000	
Bromodichloromethane	ND	1000	390	2000	
Bromoform	ND	1000	670	2000	
Bromomethane	ND	2000	760	2000	
2-Butanone	ND	10000	5800	2000	
n-Butylbenzene	ND	1000	680	2000	
sec-Butylbenzene	ND	1000	450	2000	
tert-Butylbenzene	ND	1000	760	2000	
Carbon Disulfide	ND	2000	880	2000	
Carbon Tetrachloride	ND	1000	430	2000	
Chlorobenzene	350000	1000	290	2000	E
Chloroethane	ND	1000	680	2000	
Chloroform	31000	1000	430	2000	
Chloromethane	ND	1000	430	2000	
2-Chlorotoluene	ND	1000	680	2000	
4-Chlorotoluene	ND	1000	660	2000	
Dibromochloromethane	ND	1000	470	2000	
1,2-Dibromo-3-Chloropropane	ND	10000	5800	2000	
1,2-Dibromoethane	ND	1000	670	2000	
Dibromomethane	ND	1000	690	2000	
1,2-Dichlorobenzene	ND	1000	340	2000	
1,3-Dichlorobenzene	ND	1000	340	2000	
1,4-Dichlorobenzene	ND	1000	620	2000	
Dichlorodifluoromethane	ND	2000	470	2000	
1,1-Dichloroethane	ND	1000	380	2000	
1,2-Dichloroethane	ND	1000	370	2000	
1,1-Dichloroethene	ND	1000	400	2000	
c-1,2-Dichloroethene	ND	1000	490	2000	
t-1,2-Dichloroethene	ND	1000	520	2000	
1,2-Dichloropropane	ND	1000	480	2000	
1,3-Dichloropropane	ND	2000	480	2000	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 41 of 51

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	2000	850	2000	
1,1-Dichloropropene	ND	1000	560	2000	
c-1,3-Dichloropropene	ND	1000	370	2000	
t-1,3-Dichloropropene	ND	1000	700	2000	
Ethylbenzene	ND	1000	630	2000	
2-Hexanone	ND	20000	5200	2000	
Isopropylbenzene	ND	1000	830	2000	
p-Isopropyltoluene	ND	1000	270	2000	
Methylene Chloride	ND	2000	770	2000	
4-Methyl-2-Pentanone	ND	10000	5400	2000	
Naphthalene	ND	2000	810	2000	
n-Propylbenzene	ND	1000	760	2000	
Styrene	ND	1000	650	2000	
1,1,1,2-Tetrachloroethane	ND	1000	470	2000	
1,1,2,2-Tetrachloroethane	ND	1000	440	2000	
Tetrachloroethene	ND	1000	430	2000	
Toluene	ND	1000	530	2000	
1,2,3-Trichlorobenzene	ND	1000	500	2000	
1,2,4-Trichlorobenzene	ND	1000	500	2000	
1,1,1-Trichloroethane	ND	1000	380	2000	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1000	510	2000	
1,1,2-Trichloroethane	ND	1000	650	2000	
Trichloroethene	ND	1000	460	2000	
Trichlorofluoromethane	ND	1000	500	2000	
1,2,3-Trichloropropane	ND	2000	500	2000	
1,2,4-Trimethylbenzene	ND	1000	300	2000	
1,3,5-Trimethylbenzene	ND	1000	660	2000	
Vinyl Acetate	ND	10000	4500	2000	
Vinyl Chloride	ND	1000	540	2000	
p/m-Xylene	ND	1000	470	2000	
o-Xylene	ND	1000	780	2000	
Methyl-t-Butyl Ether (MTBE)	ND	1000	580	2000	
Tert-Butyl Alcohol (TBA)	ND	20000	8200	2000	
Diisopropyl Ether (DIPE)	ND	1000	470	2000	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	430	2000	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	470	2000	
Ethanol	ND	100000	35000	2000	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
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Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	105	80-127	
1,2-Dichloroethane-d4	101	80-128	
Toluene-d8	102	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2-20140910	**14-09-0760-15-A**	**09/10/14 15:01**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/16/14 04:51**	**140915L023**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	350000	10000	2900	20000	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	68-120	
Dibromofluoromethane	106	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 43 of 51

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-70**	**N/A**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 12:20**	**140915L003**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/10/14
3995 Via Oro Ave	Work Order:	14-09-0760
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 45 of 51

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	96	80-127	
1,2-Dichloroethane-d4	99	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-71**	**N/A**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/16/14 00:35**	**140915L023**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 47 of 51

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/10/14
3995 Via Oro Ave	Work Order:	14-09-0760
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 48 of 51

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	107	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 49 of 51

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-74**	**N/A**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 04:00**	**140916L035**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 50 of 51

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/10/14
3995 Via Oro Ave	Work Order:	14-09-0760
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 51 of 51

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	95	80-128	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
LW-2-20140910	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 13:25**	**140912S01**
LW-2-20140910	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 13:45**	**140912S01**
LW-2-20140910	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 14:04**	**140912S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	25.00	23.75	95	23.30	93	70-130	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BF-31-20140910	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 15:02**	**140912S01A**
BF-31-20140910	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 15:22**	**140912S01A**
BF-31-20140910	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 15:41**	**140912S01A**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	353.0	250.0	618.9	106	615.3	105	70-130	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
LW-2-20140910	**Sample**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 14:08**	**140915S002**
LW-2-20140910	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 15:34**	**140915S002**
LW-2-20140910	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 16:02**	**140915S002**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	10.37	104	10.28	103	80-120	1	0-20	
Benzene	ND	10.00	10.84	108	10.47	105	76-124	3	0-20	
Bromobenzene	ND	10.00	10.42	104	10.22	102	80-120	2	0-20	
Bromochloromethane	ND	10.00	10.64	106	9.869	99	80-120	8	0-20	
Bromodichloromethane	ND	10.00	9.488	95	9.280	93	80-120	2	0-20	
Bromoform	ND	10.00	6.672	67	7.592	76	80-120	13	0-20	3
Bromomethane	ND	10.00	8.216	82	9.852	99	80-120	18	0-20	
2-Butanone	ND	10.00	9.639	96	8.570	86	80-120	12	0-20	
n-Butylbenzene	ND	10.00	10.95	109	10.53	105	80-120	4	0-25	
sec-Butylbenzene	ND	10.00	10.93	109	10.71	107	80-120	2	0-20	
tert-Butylbenzene	ND	10.00	10.78	108	10.36	104	80-120	4	0-20	
Carbon Disulfide	ND	10.00	11.28	113	10.92	109	80-120	3	0-20	
Carbon Tetrachloride	ND	10.00	8.168	82	8.215	82	74-134	1	0-20	
Chlorobenzene	ND	10.00	10.78	108	10.78	108	80-120	0	0-20	
Chloroethane	ND	10.00	12.25	123	10.31	103	80-120	17	0-20	3
Chloroform	ND	10.00	10.21	102	9.962	100	80-120	2	0-20	
Chloromethane	ND	10.00	11.17	112	11.45	115	80-120	3	0-20	
2-Chlorotoluene	ND	10.00	11.52	115	11.20	112	80-120	3	0-20	
4-Chlorotoluene	ND	10.00	10.41	104	10.33	103	80-120	1	0-20	
Dibromochloromethane	ND	10.00	8.328	83	8.867	89	80-120	6	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	7.719	77	8.270	83	80-120	7	0-20	3
1,2-Dibromoethane	ND	10.00	10.01	100	10.29	103	80-120	3	0-20	
Dibromomethane	ND	10.00	10.29	103	10.07	101	80-120	2	0-20	
1,2-Dichlorobenzene	ND	10.00	10.59	106	10.66	107	80-120	1	0-20	
1,3-Dichlorobenzene	ND	10.00	10.70	107	10.36	104	80-120	3	0-20	
1,4-Dichlorobenzene	ND	10.00	10.09	101	9.986	100	80-120	1	0-20	
Dichlorodifluoromethane	ND	10.00	12.87	129	12.54	125	80-120	3	0-20	3
1,1-Dichloroethane	ND	10.00	10.76	108	10.32	103	80-120	4	0-20	
1,2-Dichloroethane	ND	10.00	10.03	100	9.812	98	80-120	2	0-20	
1,1-Dichloroethene	ND	10.00	11.46	115	10.90	109	73-127	5	0-20	
c-1,2-Dichloroethene	ND	10.00	11.20	112	10.83	108	80-120	3	0-20	
t-1,2-Dichloroethene	ND	10.00	11.45	114	11.10	111	80-120	3	0-20	
1,2-Dichloropropane	ND	10.00	10.39	104	9.986	100	80-120	4	0-25	
1,3-Dichloropropane	ND	10.00	10.49	105	10.48	105	80-120	0	0-20	
2,2-Dichloropropane	ND	10.00	10.02	100	9.370	94	80-120	7	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 11

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	10.59	106	10.26	103	80-120	3	0-20	
c-1,3-Dichloropropene	ND	10.00	9.331	93	9.278	93	80-120	1	0-20	
t-1,3-Dichloropropene	ND	10.00	8.560	86	8.804	88	80-120	3	0-20	
Ethylbenzene	ND	10.00	10.88	109	10.69	107	78-126	2	0-20	
2-Hexanone	ND	10.00	8.739	87	9.212	92	80-120	5	0-20	
Isopropylbenzene	ND	10.00	11.00	110	10.83	108	80-120	2	0-20	
p-Isopropyltoluene	ND	10.00	9.558	96	9.334	93	80-120	2	0-20	
Methylene Chloride	ND	10.00	12.08	121	11.66	117	80-120	4	0-20	3
4-Methyl-2-Pentanone	ND	10.00	9.589	96	8.976	90	80-120	7	0-20	
Naphthalene	ND	10.00	11.11	111	11.39	114	80-120	2	0-20	
n-Propylbenzene	ND	10.00	11.23	112	11.20	112	80-120	0	0-20	
Styrene	ND	10.00	10.78	108	10.83	108	80-120	1	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	8.545	85	8.648	86	80-120	1	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.53	105	10.28	103	80-120	2	0-20	
Tetrachloroethene	ND	10.00	8.752	88	8.780	88	80-120	0	0-20	
Toluene	ND	10.00	10.72	107	10.31	103	80-120	4	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.76	108	10.83	108	80-120	1	0-20	
1,2,4-Trichlorobenzene	ND	10.00	10.62	106	10.58	106	80-120	0	0-20	
1,1,1-Trichloroethane	ND	10.00	9.268	93	9.062	91	80-120	2	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	11.47	115	11.16	112	80-120	3	0-20	
1,1,2-Trichloroethane	ND	10.00	10.62	106	10.85	108	80-120	2	0-20	
Trichloroethene	ND	10.00	10.29	103	9.967	100	77-120	3	0-20	
Trichlorofluoromethane	ND	10.00	9.894	99	10.23	102	80-120	3	0-20	
1,2,3-Trichloropropane	ND	10.00	9.495	95	9.879	99	80-120	4	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.22	102	10.17	102	80-120	0	0-20	
1,3,5-Trimethylbenzene	ND	10.00	11.22	112	10.94	109	80-120	3	0-20	
Vinyl Acetate	ND	10.00	10.86	109	10.72	107	80-120	1	0-20	
Vinyl Chloride	ND	10.00	12.02	120	12.37	124	72-126	3	0-20	
p/m-Xylene	ND	20.00	22.14	111	21.90	109	80-120	1	0-20	
o-Xylene	ND	10.00	11.17	112	10.90	109	80-120	2	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.378	94	9.411	94	67-121	0	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	65.32	131	51.76	104	36-162	23	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	10.74	107	10.78	108	60-138	0	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.728	97	9.524	95	69-123	2	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.288	93	9.115	91	65-120	2	0-20	
Ethanol	ND	100.0	114.8	115	122.7	123	30-180	7	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
LW-2-20140910	**Sample**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 14:08**	**140915S002**
LW-2-20140910	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 15:34**	**140915S002**
LW-2-20140910	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 16:02**	**140915S002**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.05	101	10.11	101	68-120	
Dibromofluoromethane	10.00	10.45	105	9.882	99	80-127	
1,2-Dichloroethane-d4	10.00	10.07	101	9.942	99	80-128	
Toluene-d8	10.00	10.17	102	9.987	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 6 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BF-31-20140910	**Sample**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/16/14 01:04**	**140915S010**
BF-31-20140910	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/16/14 05:19**	**140915S010**
BF-31-20140910	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/16/14 05:48**	**140915S010**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	9.774	98	11.28	113	80-120	14	0-20	
Benzene	ND	10.00	11.10	111	10.81	108	76-124	3	0-20	
Bromobenzene	ND	10.00	10.27	103	10.51	105	80-120	2	0-20	
Bromochloromethane	ND	10.00	11.38	114	11.57	116	80-120	2	0-20	
Bromodichloromethane	ND	10.00	9.483	95	9.871	99	80-120	4	0-20	
Bromoform	ND	10.00	6.886	69	7.706	77	80-120	11	0-20	3
Bromomethane	ND	10.00	10.41	104	9.112	91	80-120	13	0-20	
2-Butanone	ND	10.00	9.440	94	9.817	98	80-120	4	0-20	
n-Butylbenzene	ND	10.00	10.45	105	10.17	102	80-120	3	0-25	
sec-Butylbenzene	ND	10.00	10.83	108	10.76	108	80-120	1	0-20	
tert-Butylbenzene	ND	10.00	10.64	106	10.50	105	80-120	1	0-20	
Carbon Disulfide	ND	10.00	12.72	127	13.29	133	80-120	4	0-20	3
Carbon Tetrachloride	ND	10.00	8.022	80	9.373	94	74-134	16	0-20	
Chlorobenzene	0.5016	10.00	11.56	111	11.81	113	80-120	2	0-20	
Chloroethane	ND	10.00	14.83	148	17.52	175	80-120	17	0-20	3
Chloroform	ND	10.00	10.83	108	10.87	109	80-120	0	0-20	
Chloromethane	ND	10.00	12.69	127	13.72	137	80-120	8	0-20	3
2-Chlorotoluene	ND	10.00	11.44	114	11.57	116	80-120	1	0-20	
4-Chlorotoluene	ND	10.00	10.65	106	10.56	106	80-120	1	0-20	
Dibromochloromethane	ND	10.00	8.120	81	9.221	92	80-120	13	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	8.038	80	8.370	84	80-120	4	0-20	
1,2-Dibromoethane	ND	10.00	9.820	98	10.03	100	80-120	2	0-20	
Dibromomethane	ND	10.00	10.41	104	10.60	106	80-120	2	0-20	
1,2-Dichlorobenzene	ND	10.00	10.70	107	10.74	107	80-120	0	0-20	
1,3-Dichlorobenzene	ND	10.00	10.46	105	10.59	106	80-120	1	0-20	
1,4-Dichlorobenzene	ND	10.00	10.42	104	10.21	102	80-120	2	0-20	
Dichlorodifluoromethane	ND	10.00	11.82	118	12.95	129	80-120	9	0-20	3
1,1-Dichloroethane	ND	10.00	11.59	116	11.74	117	80-120	1	0-20	
1,2-Dichloroethane	1.818	10.00	12.01	102	11.55	97	80-120	4	0-20	
1,1-Dichloroethene	ND	10.00	11.31	113	12.06	121	73-127	6	0-20	
c-1,2-Dichloroethene	ND	10.00	11.57	116	12.01	120	80-120	4	0-20	
t-1,2-Dichloroethene	ND	10.00	11.64	116	12.41	124	80-120	6	0-20	3
1,2-Dichloropropane	0.5009	10.00	11.03	105	10.97	105	80-120	0	0-25	
1,3-Dichloropropane	ND	10.00	10.45	105	10.30	103	80-120	1	0-20	
2,2-Dichloropropane	ND	10.00	8.244	82	8.723	87	80-120	6	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 11

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	10.42	104	10.57	106	80-120	1	0-20	
c-1,3-Dichloropropene	ND	10.00	8.611	86	8.811	88	80-120	2	0-20	
t-1,3-Dichloropropene	ND	10.00	7.733	77	8.097	81	80-120	5	0-20	3
Ethylbenzene	ND	10.00	10.93	109	11.02	110	78-126	1	0-20	
2-Hexanone	ND	10.00	8.477	85	8.362	84	80-120	1	0-20	
Isopropylbenzene	ND	10.00	10.94	109	11.07	111	80-120	1	0-20	
p-Isopropyltoluene	ND	10.00	9.442	94	9.264	93	80-120	2	0-20	
Methylene Chloride	ND	10.00	12.32	123	13.28	133	80-120	8	0-20	3
4-Methyl-2-Pentanone	ND	10.00	8.253	83	8.739	87	80-120	6	0-20	
Naphthalene	ND	10.00	11.13	111	11.23	112	80-120	1	0-20	
n-Propylbenzene	ND	10.00	11.19	112	11.11	111	80-120	1	0-20	
Styrene	ND	10.00	10.88	109	10.92	109	80-120	0	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	8.227	82	9.024	90	80-120	9	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.92	109	10.32	103	80-120	6	0-20	
Tetrachloroethene	ND	10.00	8.467	85	8.336	83	80-120	2	0-20	
Toluene	ND	10.00	10.84	108	10.77	108	80-120	1	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.63	106	10.69	107	80-120	1	0-20	
1,2,4-Trichlorobenzene	ND	10.00	9.807	98	10.02	100	80-120	2	0-20	
1,1,1-Trichloroethane	ND	10.00	9.210	92	10.41	104	80-120	12	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	10.93	109	11.30	113	80-120	3	0-20	
1,1,2-Trichloroethane	ND	10.00	10.69	107	10.56	106	80-120	1	0-20	
Trichloroethene	ND	10.00	10.25	102	10.17	102	77-120	1	0-20	
Trichlorofluoromethane	ND	10.00	9.707	97	10.14	101	80-120	4	0-20	
1,2,3-Trichloropropane	ND	10.00	9.484	95	9.447	94	80-120	0	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.52	105	10.41	104	80-120	1	0-20	
1,3,5-Trimethylbenzene	ND	10.00	11.08	111	11.12	111	80-120	0	0-20	
Vinyl Acetate	ND	10.00	10.72	107	11.18	112	80-120	4	0-20	
Vinyl Chloride	ND	10.00	12.63	126	14.25	143	72-126	12	0-20	3
p/m-Xylene	ND	20.00	22.21	111	22.45	112	80-120	1	0-20	
o-Xylene	ND	10.00	11.05	110	11.07	111	80-120	0	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.259	93	9.603	96	67-121	4	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	53.69	107	48.73	97	36-162	10	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	11.44	114	11.71	117	60-138	2	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.604	96	9.949	99	69-123	4	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	8.597	86	8.654	87	65-120	1	0-20	
Ethanol	ND	100.0	116.1	116	122.2	122	30-180	5	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BF-31-20140910	**Sample**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/16/14 01:04**	**140915S010**
BF-31-20140910	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/16/14 05:19**	**140915S010**
BF-31-20140910	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/16/14 05:48**	**140915S010**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.07	101	10.29	103	68-120	
Dibromofluoromethane	10.00	10.33	103	10.57	106	80-127	
1,2-Dichloroethane-d4	10.00	9.988	100	10.31	103	80-128	
Toluene-d8	10.00	10.38	104	10.26	103	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 9 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
G-17-20140910	**Sample**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 04:28**	**140916S035**
G-17-20140910	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 08:15**	**140916S035**
G-17-20140910	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 08:43**	**140916S035**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	8.310	83	9.346	93	80-120	12	0-20	
Benzene	1.290	10.00	11.24	100	11.50	102	76-124	2	0-20	
Bromobenzene	ND	10.00	9.688	97	9.950	100	80-120	3	0-20	
Bromochloromethane	ND	10.00	10.49	105	10.79	108	80-120	3	0-20	
Bromodichloromethane	ND	10.00	9.853	99	10.62	106	80-120	8	0-20	
Bromoform	ND	10.00	9.124	91	10.22	102	80-120	11	0-20	
Bromomethane	ND	10.00	7.198	72	6.774	68	80-120	6	0-20	3
2-Butanone	ND	10.00	8.438	84	9.517	95	80-120	12	0-20	
n-Butylbenzene	ND	10.00	9.481	95	10.46	105	80-120	10	0-25	
sec-Butylbenzene	ND	10.00	10.14	101	10.97	110	80-120	8	0-20	
tert-Butylbenzene	ND	10.00	10.44	104	10.94	109	80-120	5	0-20	
Carbon Disulfide	ND	10.00	9.576	96	10.14	101	80-120	6	0-20	
Carbon Tetrachloride	ND	10.00	9.159	92	10.23	102	74-134	11	0-20	
Chlorobenzene	144.1	10.00	155.7	116	153.6	95	80-120	1	0-20	
Chloroethane	ND	10.00	12.04	120	13.30	133	80-120	10	0-20	3
Chloroform	ND	10.00	9.973	100	10.13	101	80-120	2	0-20	
Chloromethane	ND	10.00	9.913	99	10.67	107	80-120	7	0-20	
2-Chlorotoluene	ND	10.00	10.50	105	10.84	108	80-120	3	0-20	
4-Chlorotoluene	ND	10.00	9.795	98	10.53	105	80-120	7	0-20	
Dibromochloromethane	ND	10.00	9.250	93	10.30	103	80-120	11	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	8.866	89	10.11	101	80-120	13	0-20	
1,2-Dibromoethane	ND	10.00	9.617	96	9.745	97	80-120	1	0-20	
Dibromomethane	ND	10.00	9.765	98	9.786	98	80-120	0	0-20	
1,2-Dichlorobenzene	ND	10.00	10.17	102	10.56	106	80-120	4	0-20	
1,3-Dichlorobenzene	ND	10.00	9.973	100	10.56	106	80-120	6	0-20	
1,4-Dichlorobenzene	ND	10.00	9.628	96	10.08	101	80-120	5	0-20	
Dichlorodifluoromethane	ND	10.00	9.735	97	10.06	101	80-120	3	0-20	
1,1-Dichloroethane	ND	10.00	9.578	96	10.02	100	80-120	4	0-20	
1,2-Dichloroethane	5.210	10.00	14.66	95	14.72	95	80-120	0	0-20	
1,1-Dichloroethene	0.8393	10.00	10.11	93	10.68	98	73-127	5	0-20	
c-1,2-Dichloroethene	5.267	10.00	15.78	105	15.99	107	80-120	1	0-20	
t-1,2-Dichloroethene	ND	10.00	9.922	99	10.62	106	80-120	7	0-20	
1,2-Dichloropropane	ND	10.00	9.926	99	10.33	103	80-120	4	0-25	
1,3-Dichloropropane	ND	10.00	9.643	96	9.851	99	80-120	2	0-20	
2,2-Dichloropropane	ND	10.00	8.252	83	8.866	89	80-120	7	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 11

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	9.560	96	10.16	102	80-120	6	0-20	
c-1,3-Dichloropropene	ND	10.00	9.605	96	10.04	100	80-120	4	0-20	
t-1,3-Dichloropropene	ND	10.00	7.842	78	8.234	82	80-120	5	0-20	3
Ethylbenzene	ND	10.00	10.11	101	10.45	105	78-126	3	0-20	
2-Hexanone	ND	10.00	8.274	83	8.158	82	80-120	1	0-20	
Isopropylbenzene	ND	10.00	10.79	108	11.10	111	80-120	3	0-20	
p-Isopropyltoluene	ND	10.00	8.910	89	9.627	96	80-120	8	0-20	
Methylene Chloride	ND	10.00	10.13	101	10.46	105	80-120	3	0-20	
4-Methyl-2-Pentanone	ND	10.00	9.929	99	9.341	93	80-120	6	0-20	
Naphthalene	ND	10.00	10.96	110	11.87	119	80-120	8	0-20	
n-Propylbenzene	ND	10.00	9.854	99	10.41	104	80-120	5	0-20	
Styrene	ND	10.00	10.14	101	10.41	104	80-120	3	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	9.490	95	10.28	103	80-120	8	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	9.758	98	10.14	101	80-120	4	0-20	
Tetrachloroethene	ND	10.00	8.201	82	8.669	87	80-120	6	0-20	
Toluene	ND	10.00	10.02	100	10.24	102	80-120	2	0-20	
1,2,3-Trichlorobenzene	ND	10.00	9.959	100	10.79	108	80-120	8	0-20	
1,2,4-Trichlorobenzene	ND	10.00	9.654	97	10.66	107	80-120	10	0-20	
1,1,1-Trichloroethane	ND	10.00	9.630	96	10.03	100	80-120	4	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	8.601	86	9.078	91	80-120	5	0-20	
1,1,2-Trichloroethane	ND	10.00	9.624	96	9.923	99	80-120	3	0-20	
Trichloroethene	19.71	10.00	29.53	98	29.57	99	77-120	0	0-20	
Trichlorofluoromethane	ND	10.00	9.156	92	9.123	91	80-120	0	0-20	
1,2,3-Trichloropropane	ND	10.00	8.592	86	8.618	86	80-120	0	0-20	
1,2,4-Trimethylbenzene	ND	10.00	9.900	99	10.53	105	80-120	6	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.56	106	10.83	108	80-120	3	0-20	
Vinyl Acetate	ND	10.00	9.674	97	9.949	99	80-120	3	0-20	
Vinyl Chloride	ND	10.00	10.44	104	11.62	116	72-126	11	0-20	
p/m-Xylene	ND	20.00	20.71	104	21.57	108	80-120	4	0-20	
o-Xylene	ND	10.00	10.87	109	11.22	112	80-120	3	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.200	92	9.568	96	67-121	4	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	54.18	108	60.72	121	36-162	11	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	9.954	100	10.24	102	60-138	3	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.542	95	9.852	99	69-123	3	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.333	93	9.649	96	65-120	3	0-20	
Ethanol	ND	100.0	87.04	87	106.6	107	30-180	20	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
G-17-20140910	**Sample**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 04:28**	**140916S035**
G-17-20140910	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 08:15**	**140916S035**
G-17-20140910	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 08:43**	**140916S035**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.958	100	9.684	97	68-120	
Dibromofluoromethane	10.00	10.14	101	9.933	99	80-127	
1,2-Dichloroethane-d4	10.00	9.528	95	9.247	92	80-128	
Toluene-d8	10.00	10.28	103	10.03	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-42	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 11:46**	**140912L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	26.86	107	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-70	**LCS**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 10:40**	**140915L003**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	19.50	195	80-120	73-127	X
Benzene	10.00	10.32	103	80-120	73-127	
Bromobenzene	10.00	9.874	99	80-120	73-127	
Bromochloromethane	10.00	10.12	101	80-120	73-127	
Bromodichloromethane	10.00	8.884	89	80-120	73-127	
Bromoform	10.00	7.160	72	80-120	73-127	X
Bromomethane	10.00	13.06	131	80-120	73-127	X
2-Butanone	10.00	13.03	130	80-120	73-127	X
n-Butylbenzene	10.00	10.68	107	77-123	69-131	
sec-Butylbenzene	10.00	10.88	109	80-120	73-127	
tert-Butylbenzene	10.00	10.47	105	80-120	73-127	
Carbon Disulfide	10.00	10.28	103	80-120	73-127	
Carbon Tetrachloride	10.00	7.982	80	74-134	64-144	
Chlorobenzene	10.00	10.23	102	80-120	73-127	
Chloroethane	10.00	10.34	103	80-120	73-127	
Chloroform	10.00	9.716	97	80-120	73-127	
Chloromethane	10.00	12.41	124	80-120	73-127	ME
2-Chlorotoluene	10.00	10.74	107	80-120	73-127	
4-Chlorotoluene	10.00	10.13	101	80-120	73-127	
Dibromochloromethane	10.00	8.237	82	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	7.766	78	80-120	73-127	ME
1,2-Dibromoethane	10.00	9.530	95	79-121	72-128	
Dibromomethane	10.00	9.532	95	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.40	104	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.71	107	80-120	73-127	
1,4-Dichlorobenzene	10.00	9.938	99	80-120	73-127	
Dichlorodifluoromethane	10.00	12.85	128	80-120	73-127	X
1,1-Dichloroethane	10.00	10.19	102	80-120	73-127	
1,2-Dichloroethane	10.00	9.230	92	80-120	73-127	
1,1-Dichloroethene	10.00	11.05	110	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.50	105	80-120	73-127	
t-1,2-Dichloroethene	10.00	10.95	110	80-120	73-127	
1,2-Dichloropropane	10.00	9.208	92	79-115	73-121	
1,3-Dichloropropane	10.00	9.494	95	80-120	73-127	
2,2-Dichloropropane	10.00	9.984	100	80-120	73-127	
1,1-Dichloropropene	10.00	9.839	98	80-120	73-127	
c-1,3-Dichloropropene	10.00	8.933	89	80-120	73-127	
t-1,3-Dichloropropene	10.00	8.132	81	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 10

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	10.24	102	80-120	73-127	
2-Hexanone	10.00	11.38	114	80-120	73-127	
Isopropylbenzene	10.00	10.31	103	80-120	73-127	
p-Isopropyltoluene	10.00	9.563	96	80-120	73-127	
Methylene Chloride	10.00	11.12	111	80-120	73-127	
4-Methyl-2-Pentanone	10.00	8.709	87	80-120	73-127	
Naphthalene	10.00	9.878	99	80-120	73-127	
n-Propylbenzene	10.00	10.62	106	80-120	73-127	
Styrene	10.00	10.25	102	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	8.440	84	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	9.566	96	80-120	73-127	
Tetrachloroethene	10.00	8.841	88	80-120	73-127	
Toluene	10.00	10.09	101	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	10.49	105	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	10.27	103	80-120	73-127	
1,1,1-Trichloroethane	10.00	8.948	89	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	10.70	107	80-120	73-127	
1,1,2-Trichloroethane	10.00	9.702	97	80-120	73-127	
Trichloroethene	10.00	9.683	97	79-127	71-135	
Trichlorofluoromethane	10.00	10.63	106	80-120	73-127	
1,2,3-Trichloropropane	10.00	8.615	86	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.07	101	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.39	104	80-120	73-127	
Vinyl Acetate	10.00	10.44	104	80-120	73-127	
Vinyl Chloride	10.00	12.28	123	72-132	62-142	
p/m-Xylene	20.00	20.88	104	80-120	73-127	
o-Xylene	10.00	10.38	104	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	8.979	90	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	49.88	100	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	10.40	104	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.279	93	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	8.556	86	70-120	62-128	
Ethanol	100.0	142.5	142	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 2
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-70	**LCS**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 10:40**	**140915L003**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.853	99	68-120	
Dibromofluoromethane	10.00	9.586	96	80-127	
1,2-Dichloroethane-d4	10.00	9.252	93	80-128	
Toluene-d8	10.00	9.762	98	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-71	**LCS**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 23:38**	**140915L023**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	12.91	129	80-120	73-127	X
Benzene	10.00	10.95	109	80-120	73-127	
Bromobenzene	10.00	10.40	104	80-120	73-127	
Bromochloromethane	10.00	10.41	104	80-120	73-127	
Bromodichloromethane	10.00	9.603	96	80-120	73-127	
Bromoform	10.00	7.448	74	80-120	73-127	ME
Bromomethane	10.00	13.39	134	80-120	73-127	X
2-Butanone	10.00	9.993	100	80-120	73-127	
n-Butylbenzene	10.00	10.56	106	77-123	69-131	
sec-Butylbenzene	10.00	10.61	106	80-120	73-127	
tert-Butylbenzene	10.00	10.71	107	80-120	73-127	
Carbon Disulfide	10.00	11.02	110	80-120	73-127	
Carbon Tetrachloride	10.00	8.189	82	74-134	64-144	
Chlorobenzene	10.00	10.90	109	80-120	73-127	
Chloroethane	10.00	12.01	120	80-120	73-127	
Chloroform	10.00	10.52	105	80-120	73-127	
Chloromethane	10.00	13.55	136	80-120	73-127	X
2-Chlorotoluene	10.00	11.52	115	80-120	73-127	
4-Chlorotoluene	10.00	10.46	105	80-120	73-127	
Dibromochloromethane	10.00	8.386	84	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	7.958	80	80-120	73-127	
1,2-Dibromoethane	10.00	10.19	102	79-121	72-128	
Dibromomethane	10.00	10.89	109	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.76	108	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.77	108	80-120	73-127	
1,4-Dichlorobenzene	10.00	10.19	102	80-120	73-127	
Dichlorodifluoromethane	10.00	12.93	129	80-120	73-127	X
1,1-Dichloroethane	10.00	11.26	113	80-120	73-127	
1,2-Dichloroethane	10.00	10.39	104	80-120	73-127	
1,1-Dichloroethene	10.00	11.56	116	78-126	70-134	
c-1,2-Dichloroethene	10.00	11.72	117	80-120	73-127	
t-1,2-Dichloroethene	10.00	12.02	120	80-120	73-127	
1,2-Dichloropropane	10.00	10.51	105	79-115	73-121	
1,3-Dichloropropane	10.00	10.58	106	80-120	73-127	
2,2-Dichloropropane	10.00	9.242	92	80-120	73-127	
1,1-Dichloropropene	10.00	10.79	108	80-120	73-127	
c-1,3-Dichloropropene	10.00	9.413	94	80-120	73-127	
t-1,3-Dichloropropene	10.00	8.474	85	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 6 of 10

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	10.76	108	80-120	73-127	
2-Hexanone	10.00	9.231	92	80-120	73-127	
Isopropylbenzene	10.00	10.80	108	80-120	73-127	
p-Isopropyltoluene	10.00	9.450	95	80-120	73-127	
Methylene Chloride	10.00	12.84	128	80-120	73-127	X
4-Methyl-2-Pentanone	10.00	8.914	89	80-120	73-127	
Naphthalene	10.00	11.17	112	80-120	73-127	
n-Propylbenzene	10.00	11.17	112	80-120	73-127	
Styrene	10.00	10.85	108	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	8.493	85	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	10.46	105	80-120	73-127	
Tetrachloroethene	10.00	9.263	93	80-120	73-127	
Toluene	10.00	10.65	106	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	10.88	109	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	10.23	102	80-120	73-127	
1,1,1-Trichloroethane	10.00	9.261	93	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	11.44	114	80-120	73-127	
1,1,2-Trichloroethane	10.00	10.95	110	80-120	73-127	
Trichloroethene	10.00	10.23	102	79-127	71-135	
Trichlorofluoromethane	10.00	10.52	105	80-120	73-127	
1,2,3-Trichloropropane	10.00	10.00	100	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.39	104	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.99	110	80-120	73-127	
Vinyl Acetate	10.00	11.69	117	80-120	73-127	
Vinyl Chloride	10.00	13.31	133	72-132	62-142	ME
p/m-Xylene	20.00	21.76	109	80-120	73-127	
o-Xylene	10.00	10.99	110	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	10.12	101	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	48.03	96	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	11.75	117	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	10.42	104	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	9.106	91	70-120	62-128	
Ethanol	100.0	127.3	127	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 2
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-71	**LCS**	**Aqueous**	**GC/MS L**	**09/15/14**	**09/15/14 23:38**	**140915L023**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.46	105	68-120	
Dibromofluoromethane	10.00	10.35	103	80-127	
1,2-Dichloroethane-d4	10.00	10.71	107	80-128	
Toluene-d8	10.00	10.35	104	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-74	**LCS**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 03:03**	**140916L035**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	11.04	110	80-120	73-127	
Benzene	10.00	10.07	101	80-120	73-127	
Bromobenzene	10.00	10.01	100	80-120	73-127	
Bromochloromethane	10.00	10.42	104	80-120	73-127	
Bromodichloromethane	10.00	9.832	98	80-120	73-127	
Bromoform	10.00	9.288	93	80-120	73-127	
Bromomethane	10.00	11.50	115	80-120	73-127	
2-Butanone	10.00	10.61	106	80-120	73-127	
n-Butylbenzene	10.00	9.784	98	77-123	69-131	
sec-Butylbenzene	10.00	10.46	105	80-120	73-127	
tert-Butylbenzene	10.00	10.36	104	80-120	73-127	
Carbon Disulfide	10.00	8.722	87	80-120	73-127	
Carbon Tetrachloride	10.00	9.338	93	74-134	64-144	
Chlorobenzene	10.00	10.43	104	80-120	73-127	
Chloroethane	10.00	9.203	92	80-120	73-127	
Chloroform	10.00	10.04	100	80-120	73-127	
Chloromethane	10.00	10.46	105	80-120	73-127	
2-Chlorotoluene	10.00	10.64	106	80-120	73-127	
4-Chlorotoluene	10.00	10.08	101	80-120	73-127	
Dibromochloromethane	10.00	9.555	96	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	8.450	85	80-120	73-127	
1,2-Dibromoethane	10.00	9.586	96	79-121	72-128	
Dibromomethane	10.00	9.483	95	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.16	102	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.13	101	80-120	73-127	
1,4-Dichlorobenzene	10.00	9.528	95	80-120	73-127	
Dichlorodifluoromethane	10.00	10.19	102	80-120	73-127	
1,1-Dichloroethane	10.00	9.870	99	80-120	73-127	
1,2-Dichloroethane	10.00	9.189	92	80-120	73-127	
1,1-Dichloroethene	10.00	9.930	99	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.74	107	80-120	73-127	
t-1,2-Dichloroethene	10.00	10.19	102	80-120	73-127	
1,2-Dichloropropane	10.00	10.07	101	79-115	73-121	
1,3-Dichloropropane	10.00	9.922	99	80-120	73-127	
2,2-Dichloropropane	10.00	8.792	88	80-120	73-127	
1,1-Dichloropropene	10.00	10.03	100	80-120	73-127	
c-1,3-Dichloropropene	10.00	9.824	98	80-120	73-127	
t-1,3-Dichloropropene	10.00	8.114	81	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 9 of 10

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	10.25	103	80-120	73-127	
2-Hexanone	10.00	9.481	95	80-120	73-127	
Isopropylbenzene	10.00	10.77	108	80-120	73-127	
p-Isopropyltoluene	10.00	9.388	94	80-120	73-127	
Methylene Chloride	10.00	10.33	103	80-120	73-127	
4-Methyl-2-Pentanone	10.00	10.08	101	80-120	73-127	
Naphthalene	10.00	10.83	108	80-120	73-127	
n-Propylbenzene	10.00	10.21	102	80-120	73-127	
Styrene	10.00	10.45	104	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	9.463	95	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	9.709	97	80-120	73-127	
Tetrachloroethene	10.00	10.50	105	80-120	73-127	
Toluene	10.00	10.10	101	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	10.22	102	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	9.880	99	80-120	73-127	
1,1,1-Trichloroethane	10.00	9.878	99	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	8.948	89	80-120	73-127	
1,1,2-Trichloroethane	10.00	9.837	98	80-120	73-127	
Trichloroethene	10.00	9.705	97	79-127	71-135	
Trichlorofluoromethane	10.00	9.235	92	80-120	73-127	
1,2,3-Trichloropropane	10.00	8.821	88	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.11	101	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.65	107	80-120	73-127	
Vinyl Acetate	10.00	9.964	100	80-120	73-127	
Vinyl Chloride	10.00	10.68	107	72-132	62-142	
p/m-Xylene	20.00	21.15	106	80-120	73-127	
o-Xylene	10.00	10.90	109	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	9.800	98	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	50.50	101	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	10.25	102	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.920	99	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	9.841	98	70-120	62-128	
Ethanol	100.0	114.0	114	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 0
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/10/14
3995 Via Oro Ave		Work Order:	14-09-0760
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-74	**LCS**	**Aqueous**	**GC/MS L**	**09/16/14**	**09/17/14 03:03**	**140916L035**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.995	100	68-120	
Dibromofluoromethane	10.00	10.11	101	80-127	
1,2-Dichloroethane-d4	10.00	9.650	96	80-128	
Toluene-d8	10.00	10.07	101	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-0760

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0 (M) pCBSA	N/A	811	IC 8	1
EPA 8260B	EPA 5030C	316	GC/MS L	2

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Glossary of Terms and Qualifiers

Work Order: 14-09-0760 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AECOM

Chain-of-Custody Record

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00013
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL9
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

14-09-0760

Lab Job:
Ship Date: 9/10/2014
Page: 1 of 2

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
01	TB-20140910	9/10/2014	0745	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
02	EB-20140910	9/10/2014	1000	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
02	EB-20140910	9/10/2014	1000	W	125 mL P	≤6° C	None		1		X	
03	SWL0063-20140910	9/10/2014	1505	W	125 mL P	≤6° C	None		1		X	
04	LW-2-20140910	9/10/2014	1141	W	40 mL VOA	≤6° C	HCl pH < 2		8	X		MS/MSD
04	LW-2-20140910	9/10/2014	1141	W	125 mL P	≤6° C	None		2		X	MS/MSD
05	LW-1-20140910	9/10/2014	1345	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
05	LW-1-20140910	9/10/2014	1345	W	125 mL P	≤6° C	None		1		X	
06	LW-100-20140910	9/10/2014	1345	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
06	LW-100-20140910	9/10/2014	1345	W	125 mL P	≤6° C	None		1		X	
07	BF-31-20140910	9/10/2014	0918	W	40 mL VOA	≤6° C	HCl pH < 2		8	X		MS/MSD
07	BF-31-20140910	9/10/2014	0918	W	125 mL P	≤6° C	None		2		X	MS/MSD
08	G-17-20140910	9/10/2014	0808	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
08	G-17-20140910	9/10/2014	0808	W	125 mL P	≤6° C	None		1		X	
09	G-1700-20140910	9/10/2014	0808	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		

Relinquished By	Date	Received By	Date	Relinquished By	Date	Received By	Date
Signature	9/10/14	Signature	9/10/14	Signature	9/10/14	Signature	9/10/14
Printed: Robert Marchetti	Time 1650	Printed: Alex Marquez	Time ~~1615~~ 1650	Printed: Alex Marquez	Time 1800	Printed: N. Crane	Time 1800
Company AECOM		Company ECI		Company ECI		Company ECI	
Reason: PICK-UP				Reason:			

Comments:
Shipment summary: 15 samples, 1 cooler, 2 COC pages. TAT Type: 1 Week.

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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AECOM

Chain-of-Custody Record

0760

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00013
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL9
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/10/2014
Page: 2 of 2

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	pCBSA (Mod. 314.0)	VOCs + FO (8260B)	Remarks
09	G-1700-20140910	9/10/2014	0808	W	125 mL P	≤6° C	None		1	X		
10	G-5-20140910	9/10/2014	1147	W	40 mL VOA	≤6° C	HCl pH < 2		4		X	
10	G-5-20140910	9/10/2014	1147	W	125 mL P	≤6° C	None		1	X		
11	G-2-20140910	9/10/2014	1447	W	40 mL VOA	≤6° C	HCl pH < 2		4		X	
11	G-2-20140910	9/10/2014	1447	W	125 mL P	≤6° C	None		1	X		
12	BF-9-20140910	9/10/2014	1407	W	40 mL VOA	≤6° C	HCl pH < 2		4		X	
12	BF-9-20140910	9/10/2014	1407	W	125 mL P	≤6° C	None		1	X		
13	BF-2-20140910	9/10/2014	0945	W	40 mL VOA	≤6° C	HCl pH < 2		4		X	
13	BF-2-20140910	9/10/2014	0945	W	125 mL P	≤6° C	None		1	X		
14	MW-1-20140910	9/10/2014	1600	W	40 mL VOA	≤6° C	HCl pH < 2		4		X	
14	MW-1-20140910	9/10/2014	1600	W	125 mL P	≤6° C	None		1	X		
15	MW-2-20140910	9/10/2014	1501	W	40 mL VOA	≤6° C	HCl pH < 2		4		X	
15	MW-2-20140910	9/10/2014	1501	W	125 mL P	≤6° C	None		1	X		

Relinquished By	Date	Received By	Date	Relinquished By	Date	Received By	Date
Signature: [signature]	9/10/14	Signature: [signature]	9/10/14	Signature: [signature]	9/10/14	Signature: [signature]	9/10/14
Printed: Robert Matchett	Time: 1650	Printed: Alex Marquez	Time: 1650	Printed: Alex Marquez	Time: 1800	Printed: N. Cruise	Time: 1800
Company: AECOM		Company: ECI		Company: ECI		Company: ECI	
Reason: Pick-up				Reason:			

Comments:
Shipment summary: 15 samples, 1 cooler, 2 COC pages. TAT Type: 1 Week.

Relinquished By	Date	Received By	Date
Signature:		Signature:	
Printed:	Time:	Printed:	Time:
Company:		Company:	
Reason:			

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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WORK ORDER #: 14-09-0760

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AECOM

DATE: 09/10/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.2 °C - 0.3 °C (CF) = 2.9 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 678

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: 678

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 739

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs

☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB

☐250PB ☐250PBn ☑125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 140828B **Labeled/Checked by:** 739

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 681

Preservative: h: HCL n: HNO_3 na_2: $Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** 681

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WORK ORDER NUMBER: 14-09-0943

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AECOM

Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02

Attention: Katharine Carr Green
3995 Via Oro Ave
Long Beach, CA 90810-1869

Vikas Patel

Approved for release on 09/22/2014 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 14-09-0943

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Work Order Narrative

Work Order: 14-09-0943 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/11/14. They were assigned to Work Order 14-09-0943.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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QC Association Summary

Work Order: 14-09-0943

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
G-30-20140911	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S02	140912L02
G-30-20140911	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140918S001	140918L001
TB-20140911	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140918S001	140918L001
EB-20140911	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S02	140912L02
EB-20140911	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140918S001	140918L001
LW-5-20140911	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S02	140912L02
LW-5-20140911	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140918S001	140918L001
G-33-20140911	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S02	140912L02
G-33-20140911	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140913L01
G-33-20140911	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140918S001	140918L001
G-21-20140911	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S02	140912L02
G-21-20140911	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140913L01
G-21-20140911	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140918S001	140918L001
G-21-20140911	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140918S001	140918L001
MW-28-20140911	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S02	140912L02
SWL0058-20140911	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S02	140912L02
SWL0058-20140911	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140913L01
BF-35-20140911	EPA 314.0 (M) pCBSA		N/A	IC 8	140912S02	140912L02
BF-35-20140911	EPA 314.0 (M) pCBSA	R	N/A	IC 8	*1	140913L01
BF-35-20140911	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140918S001	140918L001
BF-35-20140911	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140918S001	140918L001

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1 = Dilution analysis performed, no associated matrix QC

R = Rerun

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-0943
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/11/14
Attn:	Katharine Carr Green		Page 1 of 1

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
G-30-20140911 (14-09-0943-1)						
Acetone	4.0	J	3.5*	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	0.34	J	0.18*	ug/L	EPA 8260B	EPA 5030C
EB-20140911 (14-09-0943-3)						
Methylene Chloride	0.47	J	0.38*	ug/L	EPA 8260B	EPA 5030C
G-33-20140911 (14-09-0943-5)						
p-Chlorobenzenesulfonic Acid	150	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	140		25	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	2.3		0.50	ug/L	EPA 8260B	EPA 5030C
Dichlorodifluoromethane	0.29	J	0.24*	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	0.40	J	0.18*	ug/L	EPA 8260B	EPA 5030C
Ethylbenzene	3.3		0.50	ug/L	EPA 8260B	EPA 5030C
G-21-20140911 (14-09-0943-6)						
p-Chlorobenzenesulfonic Acid	140	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	130		25	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	18		0.50	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	2.2		0.50	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	0.72		0.50	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	420	E	0.50	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	380		10	ug/L	EPA 8260B	EPA 5030C
SWL0058-20140911 (14-09-0943-8)						
p-Chlorobenzenesulfonic Acid	1400	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	1100		100	ug/L	EPA 314.0 (M) pCBSA	N/A
BF-35-20140911 (14-09-0943-9)						
p-Chlorobenzenesulfonic Acid	16000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	9800		1000	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	1300	E	4.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	1200		50	ug/L	EPA 8260B	EPA 5030C
1,4-Dichlorobenzene	4.0	J	2.5*	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	12		4.0	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	22		4.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	1600	E	4.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	1500		50	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

* MDL is shown

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-30-20140911	**14-09-0943-1-E**	**09/11/14 13:42**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 21:00**	**140912L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

EB-20140911	**14-09-0943-3-D**	**09/11/14 12:20**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 21:19**	**140912L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

LW-5-20140911	**14-09-0943-4-E**	**09/11/14 12:51**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 21:39**	**140912L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

G-33-20140911	**14-09-0943-5-E**	**09/11/14 09:37**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 21:58**	**140912L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	150	5.0	0.46	1.00	E

G-33-20140911	**14-09-0943-5-E**	**09/11/14 09:37**	**Aqueous**	**IC 8**	**N/A**	**09/13/14 12:00**	**140913L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	140	25	2.3	5.00	

G-21-20140911	**14-09-0943-6-J**	**09/11/14 11:15**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 22:18**	**140912L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	140	5.0	0.46	1.00	E

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-21-20140911	**14-09-0943-6-J**	**09/11/14 11:15**	**Aqueous**	**IC 8**	**N/A**	**09/13/14 12:20**	**140913L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	130	25	2.3	5.00	

MW-28-20140911	**14-09-0943-7-A**	**09/11/14 07:40**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 23:16**	**140912L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

SWL0058-20140911	**14-09-0943-8-A**	**09/11/14 08:46**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 23:55**	**140912L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	1400	5.0	0.46	1.00	E

SWL0058-20140911	**14-09-0943-8-A**	**09/11/14 08:46**	**Aqueous**	**IC 8**	**N/A**	**09/13/14 12:39**	**140913L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	1100	100	9.2	20.0	

BF-35-20140911	**14-09-0943-9-A**	**09/11/14 10:33**	**Aqueous**	**IC 8**	**N/A**	**09/13/14 00:14**	**140912L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	16000	5.0	0.46	1.00	E

BF-35-20140911	**14-09-0943-9-E**	**09/11/14 10:33**	**Aqueous**	**IC 8**	**N/A**	**09/13/14 12:58**	**140913L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	9800	1000	92	200	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-080-43**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 20:21**	**140912L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

Method Blank	**099-15-080-44**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/13/14 11:02**	**140913L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-30-20140911	**14-09-0943-1-A**	**09/11/14 13:42**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 12:28**	**140918L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	4.0	10	3.5	1.00	J
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	0.34	0.50	0.18	1.00	J
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 24

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/11/14
3995 Via Oro Ave	Work Order:	14-09-0943
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 3 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	68-120	
Dibromofluoromethane	97	80-127	
1,2-Dichloroethane-d4	94	80-128	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-20140911	**14-09-0943-2-A**	**09/11/14 08:30**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 12:57**	**140918L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 24

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/11/14
3995 Via Oro Ave	Work Order:	14-09-0943
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 6 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	86	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	95	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140911	**14-09-0943-3-A**	**09/11/14 12:20**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 13:25**	**140918L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 24

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	0.47	1.0	0.38	1.00	J
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/11/14
3995 Via Oro Ave	Work Order:	14-09-0943
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 9 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	93	80-128	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
LW-5-20140911	**14-09-0943-4-A**	**09/11/14 12:51**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 20:32**	**140918L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 24

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/11/14
3995 Via Oro Ave	Work Order:	14-09-0943
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 12 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	97	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 13 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-33-20140911	**14-09-0943-5-A**	**09/11/14 09:37**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 21:00**	**140918L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	2.3	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	0.29	1.0	0.24	1.00	J
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	0.40	0.50	0.18	1.00	J
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 14 of 24

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	3.3	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/11/14
3995 Via Oro Ave	Work Order:	14-09-0943
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 15 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	93	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 16 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-21-20140911	**14-09-0943-6-A**	**09/11/14 11:15**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 13:53**	**140918L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	18	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	2.2	0.50	0.20	1.00	
c-1,2-Dichloroethene	0.72	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 17 of 24

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	420	0.50	0.23	1.00	E
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 18 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	99	80-128	
Toluene-d8	101	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-21-20140911	**14-09-0943-6-C**	**09/11/14 11:15**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 15:47**	**140918L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Trichloroethene	380	10	4.6	20.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	86	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	101	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 19 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-35-20140911	**14-09-0943-9-D**	**09/11/14 10:33**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 21:28**	**140918L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	80	28	8.00	
Benzene	ND	4.0	2.6	8.00	
Bromobenzene	ND	4.0	2.6	8.00	
Bromochloromethane	ND	8.0	3.0	8.00	
Bromodichloromethane	ND	4.0	1.6	8.00	
Bromoform	ND	4.0	2.7	8.00	
Bromomethane	ND	8.0	3.0	8.00	
2-Butanone	ND	40	23	8.00	
n-Butylbenzene	ND	4.0	2.7	8.00	
sec-Butylbenzene	ND	4.0	1.8	8.00	
tert-Butylbenzene	ND	4.0	3.0	8.00	
Carbon Disulfide	ND	8.0	3.5	8.00	
Carbon Tetrachloride	ND	4.0	1.7	8.00	
Chlorobenzene	1300	4.0	1.2	8.00	E
Chloroethane	ND	4.0	2.7	8.00	
Chloroform	ND	4.0	1.7	8.00	
Chloromethane	ND	4.0	1.7	8.00	
2-Chlorotoluene	ND	4.0	2.7	8.00	
4-Chlorotoluene	ND	4.0	2.6	8.00	
Dibromochloromethane	ND	4.0	1.9	8.00	
1,2-Dibromo-3-Chloropropane	ND	40	23	8.00	
1,2-Dibromoethane	ND	4.0	2.7	8.00	
Dibromomethane	ND	4.0	2.8	8.00	
1,2-Dichlorobenzene	ND	4.0	1.4	8.00	
1,3-Dichlorobenzene	ND	4.0	1.4	8.00	
1,4-Dichlorobenzene	4.0	4.0	2.5	8.00	J
Dichlorodifluoromethane	ND	8.0	1.9	8.00	
1,1-Dichloroethane	ND	4.0	1.5	8.00	
1,2-Dichloroethane	ND	4.0	1.5	8.00	
1,1-Dichloroethene	12	4.0	1.6	8.00	
c-1,2-Dichloroethene	22	4.0	2.0	8.00	
t-1,2-Dichloroethene	ND	4.0	2.1	8.00	
1,2-Dichloropropane	ND	4.0	1.9	8.00	
1,3-Dichloropropane	ND	8.0	1.9	8.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 20 of 24

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	8.0	3.4	8.00	
1,1-Dichloropropene	ND	4.0	2.2	8.00	
c-1,3-Dichloropropene	ND	4.0	1.5	8.00	
t-1,3-Dichloropropene	ND	4.0	2.8	8.00	
Ethylbenzene	ND	4.0	2.5	8.00	
2-Hexanone	ND	80	21	8.00	
Isopropylbenzene	ND	4.0	3.3	8.00	
p-Isopropyltoluene	ND	4.0	1.1	8.00	
Methylene Chloride	ND	8.0	3.1	8.00	
4-Methyl-2-Pentanone	ND	40	22	8.00	
Naphthalene	ND	8.0	3.3	8.00	
n-Propylbenzene	ND	4.0	3.0	8.00	
Styrene	ND	4.0	2.6	8.00	
1,1,1,2-Tetrachloroethane	ND	4.0	1.9	8.00	
1,1,2,2-Tetrachloroethane	ND	4.0	1.8	8.00	
Tetrachloroethene	ND	4.0	1.7	8.00	
Toluene	ND	4.0	2.1	8.00	
1,2,3-Trichlorobenzene	ND	4.0	2.0	8.00	
1,2,4-Trichlorobenzene	ND	4.0	2.0	8.00	
1,1,1-Trichloroethane	ND	4.0	1.5	8.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	4.0	2.0	8.00	
1,1,2-Trichloroethane	ND	4.0	2.6	8.00	
Trichloroethene	1600	4.0	1.8	8.00	E
Trichlorofluoromethane	ND	4.0	2.0	8.00	
1,2,3-Trichloropropane	ND	8.0	2.0	8.00	
1,2,4-Trimethylbenzene	ND	4.0	1.2	8.00	
1,3,5-Trimethylbenzene	ND	4.0	2.7	8.00	
Vinyl Acetate	ND	40	18	8.00	
Vinyl Chloride	ND	4.0	2.2	8.00	
p/m-Xylene	ND	4.0	1.9	8.00	
o-Xylene	ND	4.0	3.1	8.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.0	2.3	8.00	
Tert-Butyl Alcohol (TBA)	ND	80	33	8.00	
Diisopropyl Ether (DIPE)	ND	4.0	1.9	8.00	
Ethyl-t-Butyl Ether (ETBE)	ND	4.0	1.7	8.00	
Tert-Amyl-Methyl Ether (TAME)	ND	4.0	1.9	8.00	
Ethanol	ND	400	140	8.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 21 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	101	80-128	
Toluene-d8	102	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-35-20140911	**14-09-0943-9-D**	**09/11/14 10:33**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 21:57**	**140918L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	1200	50	14	100	
Trichloroethene	1500	50	23	100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	91	80-128	
Toluene-d8	104	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 22 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-75**	**N/A**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 12:00**	**140918L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 23 of 24

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/11/14
3995 Via Oro Ave	Work Order:	14-09-0943
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 24 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	95	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
G-21-20140911	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 22:18**	**140912S02**
G-21-20140911	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 22:37**	**140912S02**
G-21-20140911	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 22:56**	**140912S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	143.4	25.00	172.6	4X	170.4	4X	70-130	4X	0-20	Q

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
G-21-20140911	**Sample**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 13:53**	**140918S001**
G-21-20140911	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 14:22**	**140918S001**
G-21-20140911	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 14:50**	**140918S001**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	10.01	100	9.301	93	80-120	7	0-20	
Benzene	ND	10.00	10.37	104	10.34	103	76-124	0	0-20	
Bromobenzene	ND	10.00	10.18	102	9.893	99	80-120	3	0-20	
Bromochloromethane	ND	10.00	10.26	103	9.640	96	80-120	6	0-20	
Bromodichloromethane	ND	10.00	9.963	100	9.903	99	80-120	1	0-20	
Bromoform	ND	10.00	9.617	96	9.705	97	80-120	1	0-20	
Bromomethane	ND	10.00	10.01	100	10.35	103	80-120	3	0-20	
2-Butanone	ND	10.00	9.204	92	9.607	96	80-120	4	0-20	
n-Butylbenzene	ND	10.00	11.14	111	11.20	112	80-120	1	0-25	
sec-Butylbenzene	ND	10.00	11.20	112	11.36	114	80-120	1	0-20	
tert-Butylbenzene	ND	10.00	11.10	111	11.24	112	80-120	1	0-20	
Carbon Disulfide	ND	10.00	8.849	88	9.078	91	80-120	3	0-20	
Carbon Tetrachloride	ND	10.00	8.787	88	9.201	92	74-134	5	0-20	
Chlorobenzene	18.35	10.00	28.43	101	28.62	103	80-120	1	0-20	
Chloroethane	ND	10.00	9.376	94	10.55	105	80-120	12	0-20	
Chloroform	ND	10.00	9.936	99	9.846	98	80-120	1	0-20	
Chloromethane	ND	10.00	10.65	107	12.05	121	80-120	12	0-20	3
2-Chlorotoluene	ND	10.00	10.88	109	11.10	111	80-120	2	0-20	
4-Chlorotoluene	ND	10.00	10.49	105	10.65	106	80-120	1	0-20	
Dibromochloromethane	ND	10.00	9.804	98	9.839	98	80-120	0	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	9.120	91	9.183	92	80-120	1	0-20	
1,2-Dibromoethane	ND	10.00	10.03	100	9.680	97	80-120	4	0-20	
Dibromomethane	ND	10.00	9.989	100	9.428	94	80-120	6	0-20	
1,2-Dichlorobenzene	ND	10.00	10.70	107	10.74	107	80-120	0	0-20	
1,3-Dichlorobenzene	ND	10.00	10.61	106	10.56	106	80-120	0	0-20	
1,4-Dichlorobenzene	ND	10.00	10.08	101	10.06	101	80-120	0	0-20	
Dichlorodifluoromethane	ND	10.00	10.16	102	10.98	110	80-120	8	0-20	
1,1-Dichloroethane	ND	10.00	9.834	98	9.887	99	80-120	1	0-20	
1,2-Dichloroethane	ND	10.00	9.426	94	8.932	89	80-120	5	0-20	
1,1-Dichloroethene	2.156	10.00	11.70	95	12.19	100	73-127	4	0-20	
c-1,2-Dichloroethene	0.7205	10.00	11.16	104	11.19	105	80-120	0	0-20	
t-1,2-Dichloroethene	ND	10.00	10.17	102	10.27	103	80-120	1	0-20	
1,2-Dichloropropane	ND	10.00	10.49	105	10.45	104	80-120	0	0-25	
1,3-Dichloropropane	ND	10.00	10.41	104	10.21	102	80-120	2	0-20	
2,2-Dichloropropane	ND	10.00	9.556	96	9.623	96	80-120	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 4

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	10.15	101	10.15	101	80-120	0	0-20	
c-1,3-Dichloropropene	ND	10.00	10.09	101	10.11	101	80-120	0	0-20	
t-1,3-Dichloropropene	ND	10.00	8.390	84	8.243	82	80-120	2	0-20	
Ethylbenzene	ND	10.00	10.55	105	10.61	106	78-126	1	0-20	
2-Hexanone	ND	10.00	9.767	98	9.078	91	80-120	7	0-20	
Isopropylbenzene	ND	10.00	11.05	111	11.16	112	80-120	1	0-20	
p-Isopropyltoluene	ND	10.00	9.869	99	10.00	100	80-120	1	0-20	
Methylene Chloride	ND	10.00	10.58	106	10.40	104	80-120	2	0-20	
4-Methyl-2-Pentanone	ND	10.00	10.55	106	9.803	98	80-120	7	0-20	
Naphthalene	ND	10.00	11.13	111	10.80	108	80-120	3	0-20	
n-Propylbenzene	ND	10.00	10.89	109	10.86	109	80-120	0	0-20	
Styrene	ND	10.00	10.67	107	10.72	107	80-120	0	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	9.565	96	9.863	99	80-120	3	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.77	108	10.27	103	80-120	5	0-20	
Tetrachloroethene	ND	10.00	8.758	88	8.847	88	80-120	1	0-20	
Toluene	ND	10.00	10.30	103	10.29	103	80-120	0	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.70	107	10.56	106	80-120	1	0-20	
1,2,4-Trichlorobenzene	ND	10.00	10.32	103	10.53	105	80-120	2	0-20	
1,1,1-Trichloroethane	ND	10.00	9.005	90	9.176	92	80-120	2	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	9.652	97	9.576	96	80-120	1	0-20	
1,1,2-Trichloroethane	ND	10.00	10.49	105	10.17	102	80-120	3	0-20	
Trichloroethene	382.0	10.00	393.4	114	386.3	43	77-120	2	0-20	3
Trichlorofluoromethane	ND	10.00	9.510	95	9.641	96	80-120	1	0-20	
1,2,3-Trichloropropane	ND	10.00	9.457	95	8.681	87	80-120	9	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.48	105	10.55	106	80-120	1	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.98	110	11.06	111	80-120	1	0-20	
Vinyl Acetate	ND	10.00	10.13	101	9.932	99	80-120	2	0-20	
Vinyl Chloride	ND	10.00	10.66	107	12.01	120	72-126	12	0-20	
p/m-Xylene	ND	20.00	21.97	110	22.05	110	80-120	0	0-20	
o-Xylene	ND	10.00	11.10	111	11.27	113	80-120	2	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.287	93	9.133	91	67-121	2	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	49.29	99	52.25	105	36-162	6	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	10.36	104	10.25	103	60-138	1	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.522	95	9.431	94	69-123	1	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.534	95	9.208	92	65-120	3	0-20	
Ethanol	ND	100.0	114.3	114	134.8	135	30-180	16	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
G-21-20140911	**Sample**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 13:53**	**140918S001**
G-21-20140911	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 14:22**	**140918S001**
G-21-20140911	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 14:50**	**140918S001**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.02	100	9.856	99	68-120	
Dibromofluoromethane	10.00	9.794	98	9.647	96	80-127	
1,2-Dichloroethane-d4	10.00	9.372	94	9.064	91	80-128	
Toluene-d8	10.00	10.11	101	10.13	101	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-43	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/12/14 20:41**	**140912L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	26.08	104	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-080-44	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/13/14 11:21**	**140913L01**
099-15-080-44	**LCSD**	**Aqueous**	**IC 8**	**N/A**	**09/13/14 11:41**	**140913L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	24.48	98	25.80	103	80-120	5	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-75	**LCS**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 10:55**	**140918L001**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	16.56	166	80-120	73-127	X
Benzene	10.00	9.482	95	80-120	73-127	
Bromobenzene	10.00	9.369	94	80-120	73-127	
Bromochloromethane	10.00	9.634	96	80-120	73-127	
Bromodichloromethane	10.00	9.198	92	80-120	73-127	
Bromoform	10.00	8.693	87	80-120	73-127	
Bromomethane	10.00	10.26	103	80-120	73-127	
2-Butanone	10.00	13.85	138	80-120	73-127	X
n-Butylbenzene	10.00	10.23	102	77-123	69-131	
sec-Butylbenzene	10.00	10.32	103	80-120	73-127	
tert-Butylbenzene	10.00	10.13	101	80-120	73-127	
Carbon Disulfide	10.00	8.136	81	80-120	73-127	
Carbon Tetrachloride	10.00	8.373	84	74-134	64-144	
Chlorobenzene	10.00	9.871	99	80-120	73-127	
Chloroethane	10.00	9.837	98	80-120	73-127	
Chloroform	10.00	8.894	89	80-120	73-127	
Chloromethane	10.00	11.65	116	80-120	73-127	
2-Chlorotoluene	10.00	10.29	103	80-120	73-127	
4-Chlorotoluene	10.00	9.687	97	80-120	73-127	
Dibromochloromethane	10.00	9.110	91	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	8.757	88	80-120	73-127	
1,2-Dibromoethane	10.00	9.220	92	79-121	72-128	
Dibromomethane	10.00	9.110	91	80-120	73-127	
1,2-Dichlorobenzene	10.00	9.910	99	80-120	73-127	
1,3-Dichlorobenzene	10.00	9.761	98	80-120	73-127	
1,4-Dichlorobenzene	10.00	9.247	92	80-120	73-127	
Dichlorodifluoromethane	10.00	10.53	105	80-120	73-127	
1,1-Dichloroethane	10.00	9.002	90	80-120	73-127	
1,2-Dichloroethane	10.00	8.692	87	80-120	73-127	
1,1-Dichloroethene	10.00	9.193	92	78-126	70-134	
c-1,2-Dichloroethene	10.00	9.811	98	80-120	73-127	
t-1,2-Dichloroethene	10.00	9.319	93	80-120	73-127	
1,2-Dichloropropane	10.00	9.814	98	79-115	73-121	
1,3-Dichloropropane	10.00	9.583	96	80-120	73-127	
2,2-Dichloropropane	10.00	9.122	91	80-120	73-127	
1,1-Dichloropropene	10.00	9.194	92	80-120	73-127	
c-1,3-Dichloropropene	10.00	9.395	94	80-120	73-127	
t-1,3-Dichloropropene	10.00	7.600	76	80-120	73-127	ME

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 5

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	9.766	98	80-120	73-127	
2-Hexanone	10.00	11.50	115	80-120	73-127	
Isopropylbenzene	10.00	10.27	103	80-120	73-127	
p-Isopropyltoluene	10.00	9.215	92	80-120	73-127	
Methylene Chloride	10.00	9.746	97	80-120	73-127	
4-Methyl-2-Pentanone	10.00	9.640	96	80-120	73-127	
Naphthalene	10.00	9.794	98	80-120	73-127	
n-Propylbenzene	10.00	10.08	101	80-120	73-127	
Styrene	10.00	10.02	100	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	8.849	88	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	9.353	94	80-120	73-127	
Tetrachloroethene	10.00	8.436	84	80-120	73-127	
Toluene	10.00	9.422	94	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	9.888	99	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	9.521	95	80-120	73-127	
1,1,1-Trichloroethane	10.00	8.858	89	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	8.688	87	80-120	73-127	
1,1,2-Trichloroethane	10.00	9.628	96	80-120	73-127	
Trichloroethene	10.00	9.058	91	79-127	71-135	
Trichlorofluoromethane	10.00	9.668	97	80-120	73-127	
1,2,3-Trichloropropane	10.00	8.559	86	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	9.776	98	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.40	104	80-120	73-127	
Vinyl Acetate	10.00	9.346	93	80-120	73-127	
Vinyl Chloride	10.00	11.15	111	72-132	62-142	
p/m-Xylene	20.00	20.27	101	80-120	73-127	
o-Xylene	10.00	10.33	103	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	8.531	85	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	50.68	101	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	9.365	94	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	8.706	87	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	8.829	88	70-120	62-128	
Ethanol	100.0	131.6	132	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 1
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/11/14
3995 Via Oro Ave		Work Order:	14-09-0943
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-75	**LCS**	**Aqueous**	**GC/MS L**	**09/18/14**	**09/18/14 10:55**	**140918L001**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.01	100	68-120	
Dibromofluoromethane	10.00	9.730	97	80-127	
1,2-Dichloroethane-d4	10.00	8.954	90	80-128	
Toluene-d8	10.00	10.28	103	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-0943

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0 (M) pCBSA	N/A	650	IC 8	1
EPA 314.0 (M) pCBSA	N/A	811	IC 8	1
EPA 8260B	EPA 5030C	316	GC/MS L	2

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Glossary of Terms and Qualifiers

Work Order: 14-09-0943 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AECOM

Chain-of-Custody Record

14-09-0943

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00014
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL14
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/11/2014
Page: 1 of 2

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
01	G-30-20140911	9/11/2014	1342	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
01	G-30-20140911	9/11/2014	1342	W	125 mL P	≤6° C	None		1		X	
02	TB-20140911	9/11/2014	0830	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
03	EB-20140911	9/11/2014	1220	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
03	EB-20140911	9/11/2014	1220	W	125 mL P	≤6° C	None		1		X	
04	LW-5-20140911	9/11/2014	1251	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
04	LW-5-20140911	9/11/2014	1251	W	125 mL P	≤6° C	None		1		X	
05	G-33-20140911	9/11/2014	0937	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
05	G-33-20140911	9/11/2014	0937	W	125 mL P	≤6° C	None		1		X	
~~06~~	~~BF-32A-20140911~~	~~9/11/2014~~		~~W~~	~~40 mL VOA~~	~~≤6° C~~	~~HCl pH < 2~~		~~4~~	~~X~~		MS
~~06~~	~~BF-32A-20140911~~	~~9/11/2014~~		~~W~~	~~125 mL P~~	~~≤6° C~~	~~None~~		~~1~~		~~X~~	MS
07	G-21-20140911	9/11/2014	1115	W	40 mL VOA	≤6° C	HCl pH < 2		8	X		MS/MSD
07	G-21-20140911	9/11/2014	1115	W	125 mL P	≤6° C	None		2		X	MS/MSD
08	MW-28-20140911	9/11/2014	0740	W	125 mL P	≤6° C	None		1		X	
09	SWL0058-20140911	9/11/2014	0846	W	125 mL P	≤6° C	None		1		X	

Relinquished By	Date	Received By	Date	Relinquished By	Date	Received By	Date
Signature: K. Carr	9-11-14	Signature: [illegible]	9/11/14	Signature: [illegible]	9/11/14	Signature: [illegible]	9/11/14
Printed: K. Carr	Time: 17:20	Printed: [illegible]	Time: 1720	Printed: [illegible]	Time: 1818	Printed: N. Cruise	Time: 1818
Company: AECOM		Company: ECI		Company: ECI		Company: ECI	
Reason:				Reason:			
				Signature:	Date:	Signature:	Date:
				Printed:	Time:	Printed:	Time:
				Company:		Company:	
				Reason:			

Comments:
Shipment summary: 10 samples, 1 cooler, 2 COC pages. TAT Type: 1 Week.

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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AECOM

Chain-of-Custody Record

0943

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00014
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL14
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/11/2014
Page: 2 of 2

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
10	BF-35-20140911	9/11/2014	1033	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
10	BF-35-20140911	9/11/2014	1033	W	125 mL P	≤6° C	None		1		X	

Relinquished By	Date	Received By	Date	Relinquished By	Date	Received By	Date
Signature [signature]	9-11-14	Signature [signature]	9/11/14	Signature [signature]	9/11/14	Signature [signature]	9/11/14
Printed: K. Carr Green	Time 17:20	Printed: Alex Marquez	Time 1720	Printed: ALEX MARQUEZ	Time 1818	Printed: N. Cruse	Time 1818
Company AECOM		Company ECI		Company ECI		Company ECI	
Reason:				Reason:			

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Comments:
Shipment summary: 10 samples, 1 cooler, 2 COC pages. TAT Type: 1 Week.

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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WORK ORDER #: 14-09-0943

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AECOM

DATE: 09/11/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.9 °C - 0.3 °C (CF) = 2.6 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 678

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: 678

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 920

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☑125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 1409084 **Labeled/Checked by:** 920

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 739

Preservative: h: HCL n: HNO_3 na_2: $Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** 739

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WORK ORDER NUMBER: 14-09-1187

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AECOM

Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02

Attention: Katharine Carr Green
3995 Via Oro Ave
Long Beach, CA 90810-1869

Vikas Patel

Approved for release on 09/23/2014 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 14-09-1187

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Work Order Narrative

Work Order: 14-09-1187 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/15/14. They were assigned to Work Order 14-09-1187.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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QC Association Summary

Work Order: 14-09-1187

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
TB-20140915	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140919S001	140919L001
EB-20140915	EPA 314.0 (M) pCBSA		N/A	IC 8	140917S01	140917L01
EB-20140915	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140919S001	140919L001
LW-7-20140915	EPA 314.0 (M) pCBSA		N/A	IC 8	140917S01	140917L01
LW-7-20140915	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140919S001	140919L001
BF-32A-20140915	EPA 314.0 (M) pCBSA		N/A	IC 8	140917S01	140917L01
BF-32A-20140915	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140919S001	140919L001
BF-19-20140915	EPA 314.0 (M) pCBSA		N/A	IC 8	140917S01	140917L01
BF-19-20140915	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140919S001	140919L001
G-14-20140915	EPA 314.0 (M) pCBSA		N/A	IC 8	140917S01	140917L01
G-14-20140915	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140919S001	140919L001
G-14-20140915	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140919S001	140919L001
G-11-20140915	EPA 314.0 (M) pCBSA		N/A	IC 8	140917S01	140917L01
G-11-20140915	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140917S01	140917L01
G-11-20140915	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140919S001	140919L001
G-11-20140915	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140919S001	140919L001

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-1187
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/15/14
Attn:	Katharine Carr Green		Page 1 of 1

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
BF-32A-20140915 (14-09-1187-4)						
p-Chlorobenzenesulfonic Acid	9.9		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
Acetone	3.8	J	3.5*	ug/L	EPA 8260B	EPA 5030C
Chloroform	0.56		0.50	ug/L	EPA 8260B	EPA 5030C
G-14-20140915 (14-09-1187-6)						
1,1-Dichloroethene	0.33	J	0.20*	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	70	E	0.50	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	65		2.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	3.8		0.50	ug/L	EPA 8260B	EPA 5030C
G-11-20140915 (14-09-1187-7)						
p-Chlorobenzenesulfonic Acid	2500	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	1900		200	ug/L	EPA 314.0 (M) pCBSA	N/A
Acetone	3800	E	10	ug/L	EPA 8260B	EPA 5030C
Acetone	4400	J	3500*	ug/L	EPA 8260B	EPA 5030C
2-Butanone	4500	E	5.0	ug/L	EPA 8260B	EPA 5030C
2-Butanone	4300	J	2900*	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	3.5		0.50	ug/L	EPA 8260B	EPA 5030C
2-Hexanone	11		10	ug/L	EPA 8260B	EPA 5030C
Tert-Butyl Alcohol (TBA)	13		10	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140915	**14-09-1187-2-D**	**09/15/14 11:05**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 14:36**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

LW-7-20140915	**14-09-1187-3-E**	**09/15/14 11:32**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 14:56**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

BF-32A-20140915	**14-09-1187-4-E**	**09/15/14 12:42**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 15:15**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	9.9	5.0	0.46	1.00	

BF-19-20140915	**14-09-1187-5-E**	**09/15/14 14:50**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 15:35**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

G-14-20140915	**14-09-1187-6-E**	**09/15/14 15:43**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 15:54**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

G-11-20140915	**14-09-1187-7-E**	**09/15/14 10:43**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 16:13**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	2500	5.0	0.46	1.00	E

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-11-20140915	**14-09-1187-7-E**	**09/15/14 10:43**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 18:22**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	1900	200	18	40.0	

Method Blank	**099-15-080-41**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 13:58**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-20140915	**14-09-1187-1-A**	**09/15/14 08:00**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 11:51**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 24

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/15/14
3995 Via Oro Ave	Work Order:	14-09-1187
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 3 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	68-120	
Dibromofluoromethane	96	80-127	
1,2-Dichloroethane-d4	86	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140915	**14-09-1187-2-A**	**09/15/14 11:05**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 12:20**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 24

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/15/14
3995 Via Oro Ave	Work Order:	14-09-1187
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 6 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	93	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
LW-7-20140915	**14-09-1187-3-A**	**09/15/14 11:32**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 12:48**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 24

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/15/14
3995 Via Oro Ave	Work Order:	14-09-1187
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 9 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	68-120	
Dibromofluoromethane	105	80-127	
1,2-Dichloroethane-d4	96	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-32A-20140915	**14-09-1187-4-A**	**09/15/14 12:42**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 13:17**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	3.8	10	3.5	1.00	J
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	0.56	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 24

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/15/14
3995 Via Oro Ave	Work Order:	14-09-1187
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 12 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	95	80-128	
Toluene-d8	104	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 13 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-19-20140915	**14-09-1187-5-A**	**09/15/14 14:50**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 13:45**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 14 of 24

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/15/14
3995 Via Oro Ave	Work Order:	14-09-1187
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 15 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	92	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 16 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-14-20140915	**14-09-1187-6-A**	**09/15/14 15:43**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 14:14**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	0.33	0.50	0.20	1.00	J
c-1,2-Dichloroethene	70	0.50	0.24	1.00	E
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 17 of 24

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	3.8	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 18 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	95	80-128	
Toluene-d8	103	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-14-20140915	**14-09-1187-6-B**	**09/15/14 15:43**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 20:52**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
c-1,2-Dichloroethene	65	2.0	0.98	4.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	68-120	
Dibromofluoromethane	108	80-127	
1,2-Dichloroethane-d4	95	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 19 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-11-20140915	**14-09-1187-7-A**	**09/15/14 10:43**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 14:42**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	3800	10	3.5	1.00	E
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	4500	5.0	2.9	1.00	E
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	3.5	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 20 of 24

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	11	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	13	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 21 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-120	
Dibromofluoromethane	86	80-127	
1,2-Dichloroethane-d4	88	80-128	
Toluene-d8	102	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-11-20140915	**14-09-1187-7-B**	**09/15/14 10:43**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 21:21**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	4400	10000	3500	1000	J
2-Butanone	4300	5000	2900	1000	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	86	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	95	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 22 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-76**	**N/A**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 11:23**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 23 of 24

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/15/14
3995 Via Oro Ave	Work Order:	14-09-1187
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 24 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	86	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	97	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BF-19-20140915	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 15:35**	**140917S01**
BF-19-20140915	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 16:52**	**140917S01**
BF-19-20140915	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 17:12**	**140917S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	25.00	23.14	93	23.29	93	70-130	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
LW-7-20140915	**Sample**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 12:48**	**140919S001**
LW-7-20140915	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 15:11**	**140919S001**
LW-7-20140915	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 15:39**	**140919S001**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	11.54	115	10.69	107	80-120	8	0-20	
Benzene	ND	10.00	10.43	104	10.50	105	76-124	1	0-20	
Bromobenzene	ND	10.00	9.738	97	9.768	98	80-120	0	0-20	
Bromochloromethane	ND	10.00	9.966	100	9.953	100	80-120	0	0-20	
Bromodichloromethane	ND	10.00	9.428	94	9.649	96	80-120	2	0-20	
Bromoform	ND	10.00	9.129	91	9.579	96	80-120	5	0-20	
Bromomethane	ND	10.00	5.699	57	6.538	65	80-120	14	0-20	3
2-Butanone	ND	10.00	11.55	116	10.36	104	80-120	11	0-20	
n-Butylbenzene	ND	10.00	11.00	110	11.30	113	80-120	3	0-25	
sec-Butylbenzene	ND	10.00	11.03	110	11.28	113	80-120	2	0-20	
tert-Butylbenzene	ND	10.00	10.82	108	11.02	110	80-120	2	0-20	
Carbon Disulfide	ND	10.00	9.910	99	10.18	102	80-120	3	0-20	
Carbon Tetrachloride	ND	10.00	8.513	85	9.119	91	74-134	7	0-20	
Chlorobenzene	ND	10.00	10.70	107	10.72	107	80-120	0	0-20	
Chloroethane	ND	10.00	13.93	139	11.65	117	80-120	18	0-20	3
Chloroform	ND	10.00	9.055	91	9.471	95	80-120	4	0-20	
Chloromethane	ND	10.00	10.17	102	10.29	103	80-120	1	0-20	
2-Chlorotoluene	ND	10.00	10.83	108	10.68	107	80-120	1	0-20	
4-Chlorotoluene	ND	10.00	10.27	103	10.54	105	80-120	3	0-20	
Dibromochloromethane	ND	10.00	9.478	95	9.737	97	80-120	3	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	7.988	80	8.415	84	80-120	5	0-20	
1,2-Dibromoethane	ND	10.00	9.405	94	9.729	97	80-120	3	0-20	
Dibromomethane	ND	10.00	9.470	95	9.575	96	80-120	1	0-20	
1,2-Dichlorobenzene	ND	10.00	10.37	104	10.54	105	80-120	2	0-20	
1,3-Dichlorobenzene	ND	10.00	10.38	104	10.47	105	80-120	1	0-20	
1,4-Dichlorobenzene	ND	10.00	9.775	98	9.824	98	80-120	0	0-20	
Dichlorodifluoromethane	ND	10.00	9.715	97	9.941	99	80-120	2	0-20	
1,1-Dichloroethane	ND	10.00	9.488	95	9.573	96	80-120	1	0-20	
1,2-Dichloroethane	ND	10.00	8.508	85	8.675	87	80-120	2	0-20	
1,1-Dichloroethene	ND	10.00	9.318	93	10.04	100	73-127	7	0-20	
c-1,2-Dichloroethene	ND	10.00	10.25	103	10.48	105	80-120	2	0-20	
t-1,2-Dichloroethene	ND	10.00	9.739	97	10.18	102	80-120	4	0-20	
1,2-Dichloropropane	ND	10.00	10.41	104	10.66	107	80-120	2	0-25	
1,3-Dichloropropane	ND	10.00	10.12	101	10.07	101	80-120	1	0-20	
2,2-Dichloropropane	ND	10.00	8.900	89	9.282	93	80-120	4	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 4

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	9.726	97	10.08	101	80-120	4	0-20	
c-1,3-Dichloropropene	ND	10.00	9.455	95	9.822	98	80-120	4	0-20	
t-1,3-Dichloropropene	ND	10.00	7.706	77	7.994	80	80-120	4	0-20	3
Ethylbenzene	ND	10.00	10.47	105	10.45	105	78-126	0	0-20	
2-Hexanone	ND	10.00	9.251	93	9.042	90	80-120	2	0-20	
Isopropylbenzene	ND	10.00	10.94	109	11.00	110	80-120	0	0-20	
p-Isopropyltoluene	ND	10.00	9.704	97	9.974	100	80-120	3	0-20	
Methylene Chloride	ND	10.00	10.05	100	10.52	105	80-120	5	0-20	
4-Methyl-2-Pentanone	ND	10.00	9.160	92	9.188	92	80-120	0	0-20	
Naphthalene	ND	10.00	10.92	109	11.55	116	80-120	6	0-20	
n-Propylbenzene	ND	10.00	10.77	108	10.83	108	80-120	1	0-20	
Styrene	ND	10.00	10.56	106	10.58	106	80-120	0	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	9.243	92	9.495	95	80-120	3	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.11	101	10.46	105	80-120	3	0-20	
Tetrachloroethene	ND	10.00	8.603	86	8.732	87	80-120	1	0-20	
Toluene	ND	10.00	10.06	101	10.26	103	80-120	2	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.32	103	10.73	107	80-120	4	0-20	
1,2,4-Trichlorobenzene	ND	10.00	10.06	101	10.26	103	80-120	2	0-20	
1,1,1-Trichloroethane	ND	10.00	8.647	86	9.093	91	80-120	5	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	9.057	91	9.536	95	80-120	5	0-20	
1,1,2-Trichloroethane	ND	10.00	10.31	103	10.25	102	80-120	1	0-20	
Trichloroethene	ND	10.00	9.531	95	9.722	97	77-120	2	0-20	
Trichlorofluoromethane	ND	10.00	8.462	85	8.725	87	80-120	3	0-20	
1,2,3-Trichloropropane	ND	10.00	8.760	88	8.575	86	80-120	2	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.34	103	10.53	105	80-120	2	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.81	108	10.87	109	80-120	1	0-20	
Vinyl Acetate	ND	10.00	9.621	96	10.01	100	80-120	4	0-20	
Vinyl Chloride	ND	10.00	10.69	107	11.52	115	72-126	7	0-20	
p/m-Xylene	ND	20.00	21.78	109	21.85	109	80-120	0	0-20	
o-Xylene	ND	10.00	11.13	111	11.00	110	80-120	1	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	8.375	84	8.750	88	67-121	4	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	49.75	100	54.14	108	36-162	8	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	9.798	98	10.16	102	60-138	4	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	8.902	89	9.282	93	69-123	4	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.252	93	9.245	92	65-120	0	0-20	
Ethanol	ND	100.0	99.76	100	129.5	129	30-180	26	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
LW-7-20140915	**Sample**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 12:48**	**140919S001**
LW-7-20140915	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 15:11**	**140919S001**
LW-7-20140915	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 15:39**	**140919S001**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.682	97	9.806	98	68-120	
Dibromofluoromethane	10.00	9.440	94	9.606	96	80-127	
1,2-Dichloroethane-d4	10.00	8.476	85	8.654	87	80-128	
Toluene-d8	10.00	10.16	102	10.13	101	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-41	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 14:17**	**140917L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	24.14	97	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-76	**LCS**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 10:14**	**140919L001**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	19.13	191	80-120	73-127	X
Benzene	10.00	10.39	104	80-120	73-127	
Bromobenzene	10.00	10.10	101	80-120	73-127	
Bromochloromethane	10.00	10.10	101	80-120	73-127	
Bromodichloromethane	10.00	9.629	96	80-120	73-127	
Bromoform	10.00	9.220	92	80-120	73-127	
Bromomethane	10.00	11.00	110	80-120	73-127	
2-Butanone	10.00	15.97	160	80-120	73-127	X
n-Butylbenzene	10.00	11.02	110	77-123	69-131	
sec-Butylbenzene	10.00	11.21	112	80-120	73-127	
tert-Butylbenzene	10.00	10.94	109	80-120	73-127	
Carbon Disulfide	10.00	8.687	87	80-120	73-127	
Carbon Tetrachloride	10.00	8.339	83	74-134	64-144	
Chlorobenzene	10.00	10.82	108	80-120	73-127	
Chloroethane	10.00	9.861	99	80-120	73-127	
Chloroform	10.00	9.361	94	80-120	73-127	
Chloromethane	10.00	12.02	120	80-120	73-127	
2-Chlorotoluene	10.00	10.88	109	80-120	73-127	
4-Chlorotoluene	10.00	10.55	106	80-120	73-127	
Dibromochloromethane	10.00	9.648	96	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	8.834	88	80-120	73-127	
1,2-Dibromoethane	10.00	9.762	98	79-121	72-128	
Dibromomethane	10.00	9.738	97	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.81	108	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.69	107	80-120	73-127	
1,4-Dichlorobenzene	10.00	9.949	99	80-120	73-127	
Dichlorodifluoromethane	10.00	10.31	103	80-120	73-127	
1,1-Dichloroethane	10.00	9.559	96	80-120	73-127	
1,2-Dichloroethane	10.00	8.998	90	80-120	73-127	
1,1-Dichloroethene	10.00	9.748	97	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.34	103	80-120	73-127	
t-1,2-Dichloroethene	10.00	10.01	100	80-120	73-127	
1,2-Dichloropropane	10.00	10.66	107	79-115	73-121	
1,3-Dichloropropane	10.00	10.33	103	80-120	73-127	
2,2-Dichloropropane	10.00	9.274	93	80-120	73-127	
1,1-Dichloropropene	10.00	9.804	98	80-120	73-127	
c-1,3-Dichloropropene	10.00	10.03	100	80-120	73-127	
t-1,3-Dichloropropene	10.00	7.905	79	80-120	73-127	ME

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 4

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	10.53	105	80-120	73-127	
2-Hexanone	10.00	13.03	130	80-120	73-127	X
Isopropylbenzene	10.00	11.02	110	80-120	73-127	
p-Isopropyltoluene	10.00	9.877	99	80-120	73-127	
Methylene Chloride	10.00	10.23	102	80-120	73-127	
4-Methyl-2-Pentanone	10.00	9.776	98	80-120	73-127	
Naphthalene	10.00	10.73	107	80-120	73-127	
n-Propylbenzene	10.00	10.89	109	80-120	73-127	
Styrene	10.00	10.80	108	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	9.119	91	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	10.65	107	80-120	73-127	
Tetrachloroethene	10.00	9.118	91	80-120	73-127	
Toluene	10.00	10.30	103	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	10.56	106	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	10.19	102	80-120	73-127	
1,1,1-Trichloroethane	10.00	9.330	93	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	9.414	94	80-120	73-127	
1,1,2-Trichloroethane	10.00	10.59	106	80-120	73-127	
Trichloroethene	10.00	9.698	97	79-127	71-135	
Trichlorofluoromethane	10.00	9.391	94	80-120	73-127	
1,2,3-Trichloropropane	10.00	9.228	92	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.58	106	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	11.13	111	80-120	73-127	
Vinyl Acetate	10.00	9.896	99	80-120	73-127	
Vinyl Chloride	10.00	11.66	117	72-132	62-142	
p/m-Xylene	20.00	21.90	110	80-120	73-127	
o-Xylene	10.00	11.05	110	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	8.965	90	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	50.44	101	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	10.18	102	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.255	93	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	9.261	93	70-120	62-128	
Ethanol	100.0	130.2	130	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 1
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/15/14
3995 Via Oro Ave		Work Order:	14-09-1187
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-76	**LCS**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 10:14**	**140919L001**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.893	99	68-120	
Dibromofluoromethane	10.00	9.872	99	80-127	
1,2-Dichloroethane-d4	10.00	8.930	89	80-128	
Toluene-d8	10.00	10.19	102	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-1187

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0 (M) pCBSA	N/A	811	IC 8	1
EPA 8260B	EPA 5030C	316	GC/MS L	2

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Glossary of Terms and Qualifiers

Work Order: 14-09-1187 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AECOM

Chain-of-Custody Record

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00015
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL15
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

14-09-1187

Lab Job:
Ship Date: 9/15/2014
Page: 1 of 2

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
01	TB-20140915	9/15/2014	0800	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
02	EB-20140915	9/15/2014	1105	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
02	EB-20140915	9/15/2014	1105	W	125 mL P	≤6° C	None		1		X	
03	LW-7-20140915	9/15/2014	1132	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
03	LW-7-20140915	9/15/2014	1132	W	125 mL P	≤6° C	None		1		X	
04	BF-32A-20140915	9/15/2014	1242	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
04	BF-32A-20140915	9/15/2014	1242	W	125 mL P	≤6° C	None		1		X	
05	BF-19-20140915	9/15/2014	1450	W	40 mL VOA	≤6° C	HCl pH < 2	X	4	X		
05	BF-19-20140915	9/15/2014	1450	W	125 mL P	≤6° C	None		1		X	
06	G-14-20140915	9/15/2014	1543	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
06	G-14-20140915	9/15/2014	1543	W	125 mL P	≤6° C	None		1		X	
~~07~~	~~LG-1-20140915~~	~~9/15/2014~~		~~W~~	~~40 mL VOA~~	~~≤6° C~~	~~HCl pH < 2~~		~~4~~	~~X~~		
07	LG-1-20140915	9/15/2014		W	125 mL P	≤6° C	None		1		X	
08	LG-100-20140915	9/15/2014		W	40 mL VOA	≤6° C	HCl pH < 2		4	X		No Sample
08	LG-100-20140915	9/15/2014		W	125 mL P	≤6° C	None		1		X	

Analyses Requested

Relinquished By	Date	Received By	Date
Signature: [signature]	9/15/14	Signature: [signature]	9/15/14
Printed: Robert Mayorga	Time	Printed: ALEX MARQUEZ	Time
Company: AECOM		Company: ECI	1730
Reason: PICK-UP			

Relinquished By	Date	Received By	Date
Signature: [signature]	9/15/14	Signature: Dannyle	9/15/14
Printed: ALEX MARQUEZ	Time	Printed: DANNY LE	Time
Company: ECI	1830	Company: CEL	18:30
Reason:			

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Comments:
Shipment summary: 12 samples, 1 cooler, 2 COC pages. TAT Type: 1 Week.

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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AECOM

Chain-of-Custody Record

1187

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00015
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL15
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/15/2014
Page: 2 of 2

Analyses Requested

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
07 ~~09~~	G-11-20140915	9/15/2014	1043	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
~~09~~	G-11-20140915	9/15/2014	1043	W	125 mL P	≤6° C	None		1		X	
~~10~~	~~LG-2-20140915~~	~~9/15/2014~~		~~W~~	~~40 mL VOA~~	~~≤6° C~~	~~HCl pH < 2~~		~~4~~	~~X~~		
~~10~~	~~LG-2-20140915~~	~~9/15/2014~~		~~W~~	~~125 mL P~~	~~≤6° C~~	~~None~~		~~1~~		~~X~~	
~~11~~	~~BF-12-20140915~~	~~9/15/2014~~		~~W~~	~~40 mL VOA~~	~~≤6° C~~	~~HCl pH < 2~~		~~4~~	~~X~~		
~~11~~	~~BF-12-20140915~~	~~9/15/2014~~		~~W~~	~~125 mL P~~	~~≤6° C~~	~~None~~		~~1~~		~~X~~	No Sample Rpm
~~12~~	~~BF-1200-20140915~~	~~9/15/2014~~		~~W~~	~~40 mL VOA~~	~~≤6° C~~	~~HCl pH < 2~~		~~4~~	~~X~~		
~~12~~	~~BF-1200-20140915~~	~~9/15/2014~~		~~W~~	~~125 mL P~~	~~≤6° C~~	~~None~~		~~1~~		~~X~~	

Relinquished By	Date	Received By	Date	Relinquished By	Date	Received By	Date
Signature	9/15/14	Signature	9/15/14	Signature	9/15/14	Signature	
Printed: Robert Marquez	Time	Printed: Alex Marquez	Time	Printed: Alex Marquez	Time	Printed:	Time
Company AECOM		Company ECI	1730	Company ECI	1830	Company	
Reason: PICK-UP				Reason:			

Comments:
Shipment summary: 12 samples, 1 cooler, 2 COC pages. TAT Type: 1 Week.

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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WORK ORDER #: 14-09-1187

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AECOM

DATE: 09/15/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.7 °C - 0.3 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 678

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: 678

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 920

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOAh (4) ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☑125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 1409084 **Labeled/Checked by:** 920

Container: C: Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 689

Preservative: h: HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 689

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WORK ORDER NUMBER: 14-09-1264

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AECOM

Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02

Attention: Katherine Green
3995 Via Oro Ave
Long Beach, CA 90810-1869

Vikas Patel

Approved for release on 09/24/2014 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 14-09-1264

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Work Order Narrative

Work Order: 14-09-1264 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/16/14. They were assigned to Work Order 14-09-1264.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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QC Association Summary

Work Order: 14-09-1264

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
TB-20140916	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140919S001	140919L001
EB-20140916	EPA 314.0 (M) pCBSA		N/A	IC 8	140917S01	140917L01
EB-20140916	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140919S001	140919L001
G-16-20140916	EPA 314.0 (M) pCBSA		N/A	IC 8	140917S01	140917L01
G-16-20140916	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140919S001	140919L001
LG-1-20140916	EPA 314.0 (M) pCBSA		N/A	IC 8	140917S01	140917L01
LG-1-20140916	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140918S01	140918L01
LG-1-20140916	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140919S001	140919L001
LG-100-20140916	EPA 314.0 (M) pCBSA		N/A	IC 8	140917S01	140917L01
LG-100-20140916	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140918S01	140918L01
LG-100-20140916	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140919S001	140919L001
G-15-20140916	EPA 314.0 (M) pCBSA		N/A	IC 8	140918S01	140918L01
G-15-20140916	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140919S001	140919L001
LG-2-20140916	EPA 314.0 (M) pCBSA		N/A	IC 8	140917S01	140917L01
LG-2-20140916	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140918S01	140918L01
LG-2-20140916	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140919S001	140919L001
LG-2-20140916	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140920S006	140920L012
BF-29-20140916	EPA 314.0 (M) pCBSA		N/A	IC 8	140918S01	140918L01
BF-29-20140916	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140920S006	140920L012
BF-12-20140916	EPA 314.0 (M) pCBSA		N/A	IC 8	140917S01	140917L01
BF-12-20140916	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140918S01	140918L01
BF-12-20140916	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140920S006	140920L012
BF-12-20140916	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140919S019	140919L043
BF-1200-20140916	EPA 314.0 (M) pCBSA		N/A	IC 8	140917S01	140917L01
BF-1200-20140916	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140918S01	140918L01
BF-1200-20140916	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140920S006	140920L012
BF-1200-20140916	EPA 8260B Volatile Organics	R	EPA 5030C	GC/MS L	140919S019	140919L043

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R = Rerun

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-1264
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/16/14
Attn:	Katherine Green		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
LG-1-20140916 (14-09-1264-4)						
p-Chlorobenzenesulfonic Acid	43000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	26000		2500	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	8.7		0.50	ug/L	EPA 8260B	EPA 5030C
LG-100-20140916 (14-09-1264-5)						
p-Chlorobenzenesulfonic Acid	43000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	26000		2500	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	8.1		0.50	ug/L	EPA 8260B	EPA 5030C
G-15-20140916 (14-09-1264-6)						
Chlorobenzene	5.9		0.50	ug/L	EPA 8260B	EPA 5030C
LG-2-20140916 (14-09-1264-7)						
p-Chlorobenzenesulfonic Acid	43000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	27000		2500	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	2500	E	5.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	5500		200	ug/L	EPA 8260B	EPA 5030C
1,4-Dichlorobenzene	3.3	J	3.1*	ug/L	EPA 8260B	EPA 5030C
BF-29-20140916 (14-09-1264-8)						
p-Chlorobenzenesulfonic Acid	25		5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
Acetone	5.0	J	3.5*	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	0.62		0.50	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	0.39	J	0.18*	ug/L	EPA 8260B	EPA 5030C
BF-12-20140916 (14-09-1264-9)						
p-Chlorobenzenesulfonic Acid	51000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	30000		5000	ug/L	EPA 314.0 (M) pCBSA	N/A
Benzene	3.3	J	3.2*	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	1900	E	5.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	2300		50	ug/L	EPA 8260B	EPA 5030C
1,4-Dichlorobenzene	4.3	J	3.1*	ug/L	EPA 8260B	EPA 5030C
BF-1200-20140916 (14-09-1264-10)						
p-Chlorobenzenesulfonic Acid	51000	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	29000		5000	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	1900	E	5.0	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	2300		50	ug/L	EPA 8260B	EPA 5030C
1,4-Dichlorobenzene	4.4	J	3.1*	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

* MDL is shown

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140916	**14-09-1264-2-D**	**09/16/14 13:00**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 19:40**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

G-16-20140916	**14-09-1264-3-E**	**09/16/14 10:43**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 19:59**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

LG-1-20140916	**14-09-1264-4-E**	**09/16/14 15:27**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 20:18**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	43000	5.0	0.46	1.00	E

LG-1-20140916	**14-09-1264-4-E**	**09/16/14 15:27**	**Aqueous**	**IC 8**	**N/A**	**09/18/14 12:59**	**140918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	26000	2500	230	500	

LG-100-20140916	**14-09-1264-5-E**	**09/16/14 15:27**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 20:38**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	43000	5.0	0.46	1.00	E

LG-100-20140916	**14-09-1264-5-E**	**09/16/14 15:27**	**Aqueous**	**IC 8**	**N/A**	**09/18/14 13:18**	**140918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	26000	2500	230	500	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-15-20140916	**14-09-1264-6-E**	**09/16/14 11:51**	**Aqueous**	**IC 8**	**N/A**	**09/18/14 13:38**	**140918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

LG-2-20140916	**14-09-1264-7-E**	**09/16/14 14:19**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 21:17**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	43000	5.0	0.46	1.00	E

LG-2-20140916	**14-09-1264-7-E**	**09/16/14 14:19**	**Aqueous**	**IC 8**	**N/A**	**09/18/14 13:57**	**140918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	27000	2500	230	500	

BF-29-20140916	**14-09-1264-8-E**	**09/16/14 09:29**	**Aqueous**	**IC 8**	**N/A**	**09/18/14 14:17**	**140918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	25	5.0	0.46	1.00	

BF-12-20140916	**14-09-1264-9-E**	**09/16/14 08:24**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 21:55**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	51000	5.0	0.46	1.00	E

BF-12-20140916	**14-09-1264-9-E**	**09/16/14 08:24**	**Aqueous**	**IC 8**	**N/A**	**09/18/14 14:36**	**140918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	30000	5000	460	1000	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-1200-20140916	**14-09-1264-10-E**	**09/16/14 08:24**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 22:15**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	51000	5.0	0.46	1.00	E

BF-1200-20140916	**14-09-1264-10-E**	**09/16/14 08:24**	**Aqueous**	**IC 8**	**N/A**	**09/18/14 14:55**	**140918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	29000	5000	460	1000	

Method Blank	**099-15-080-41**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 13:58**	**140917L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

Method Blank	**099-15-080-45**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/18/14 12:01**	**140918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-20140916	**14-09-1264-1-B**	**09/16/14 07:30**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 17:04**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 36

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/16/14
3995 Via Oro Ave	Work Order:	14-09-1264
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 3 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	93	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140916	**14-09-1264-2-A**	**09/16/14 13:00**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 17:33**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 36

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/16/14
3995 Via Oro Ave	Work Order:	14-09-1264
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 6 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	95	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-16-20140916	**14-09-1264-3-A**	**09/16/14 10:43**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 18:01**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 36

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/16/14
3995 Via Oro Ave	Work Order:	14-09-1264
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 9 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	93	80-128	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
LG-1-20140916	**14-09-1264-4-A**	**09/16/14 15:27**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 18:30**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	8.7	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 36

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/16/14
3995 Via Oro Ave	Work Order:	14-09-1264
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 12 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	94	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 13 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
LG-100-20140916	**14-09-1264-5-A**	**09/16/14 15:27**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 18:58**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	8.1	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 14 of 36

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/16/14
3995 Via Oro Ave	Work Order:	14-09-1264
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 15 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	92	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 16 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
G-15-20140916	**14-09-1264-6-A**	**09/16/14 11:51**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 19:27**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	5.9	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 17 of 36

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/16/14
3995 Via Oro Ave	Work Order:	14-09-1264
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 18 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	68-120	
Dibromofluoromethane	106	80-127	
1,2-Dichloroethane-d4	98	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 19 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
LG-2-20140916	**14-09-1264-7-A**	**09/16/14 14:19**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 19:55**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	100	35	10.0	
Benzene	ND	5.0	3.2	10.0	
Bromobenzene	ND	5.0	3.3	10.0	
Bromochloromethane	ND	10	3.8	10.0	
Bromodichloromethane	ND	5.0	2.0	10.0	
Bromoform	ND	5.0	3.4	10.0	
Bromomethane	ND	10	3.8	10.0	
2-Butanone	ND	50	29	10.0	
n-Butylbenzene	ND	5.0	3.4	10.0	
sec-Butylbenzene	ND	5.0	2.3	10.0	
tert-Butylbenzene	ND	5.0	3.8	10.0	
Carbon Disulfide	ND	10	4.4	10.0	
Carbon Tetrachloride	ND	5.0	2.2	10.0	
Chlorobenzene	2500	5.0	1.4	10.0	E
Chloroethane	ND	5.0	3.4	10.0	
Chloroform	ND	5.0	2.2	10.0	
Chloromethane	ND	5.0	2.2	10.0	
2-Chlorotoluene	ND	5.0	3.4	10.0	
4-Chlorotoluene	ND	5.0	3.3	10.0	
Dibromochloromethane	ND	5.0	2.4	10.0	
1,2-Dibromo-3-Chloropropane	ND	50	29	10.0	
1,2-Dibromoethane	ND	5.0	3.4	10.0	
Dibromomethane	ND	5.0	3.4	10.0	
1,2-Dichlorobenzene	ND	5.0	1.7	10.0	
1,3-Dichlorobenzene	ND	5.0	1.7	10.0	
1,4-Dichlorobenzene	3.3	5.0	3.1	10.0	J
Dichlorodifluoromethane	ND	10	2.4	10.0	
1,1-Dichloroethane	ND	5.0	1.9	10.0	
1,2-Dichloroethane	ND	5.0	1.8	10.0	
1,1-Dichloroethene	ND	5.0	2.0	10.0	
c-1,2-Dichloroethene	ND	5.0	2.4	10.0	
t-1,2-Dichloroethene	ND	5.0	2.6	10.0	
1,2-Dichloropropane	ND	5.0	2.4	10.0	
1,3-Dichloropropane	ND	10	2.4	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 20 of 36

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	10	4.2	10.0	
1,1-Dichloropropene	ND	5.0	2.8	10.0	
c-1,3-Dichloropropene	ND	5.0	1.8	10.0	
t-1,3-Dichloropropene	ND	5.0	3.5	10.0	
Ethylbenzene	ND	5.0	3.2	10.0	
2-Hexanone	ND	100	26	10.0	
Isopropylbenzene	ND	5.0	4.2	10.0	
p-Isopropyltoluene	ND	5.0	1.4	10.0	
Methylene Chloride	ND	10	3.8	10.0	
4-Methyl-2-Pentanone	ND	50	27	10.0	
Naphthalene	ND	10	4.1	10.0	
n-Propylbenzene	ND	5.0	3.8	10.0	
Styrene	ND	5.0	3.2	10.0	
1,1,1,2-Tetrachloroethane	ND	5.0	2.4	10.0	
1,1,2,2-Tetrachloroethane	ND	5.0	2.2	10.0	
Tetrachloroethene	ND	5.0	2.2	10.0	
Toluene	ND	5.0	2.6	10.0	
1,2,3-Trichlorobenzene	ND	5.0	2.5	10.0	
1,2,4-Trichlorobenzene	ND	5.0	2.5	10.0	
1,1,1-Trichloroethane	ND	5.0	1.9	10.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	5.0	2.6	10.0	
1,1,2-Trichloroethane	ND	5.0	3.2	10.0	
Trichloroethene	ND	5.0	2.3	10.0	
Trichlorofluoromethane	ND	5.0	2.5	10.0	
1,2,3-Trichloropropane	ND	10	2.5	10.0	
1,2,4-Trimethylbenzene	ND	5.0	1.5	10.0	
1,3,5-Trimethylbenzene	ND	5.0	3.3	10.0	
Vinyl Acetate	ND	50	22	10.0	
Vinyl Chloride	ND	5.0	2.7	10.0	
p/m-Xylene	ND	5.0	2.4	10.0	
o-Xylene	ND	5.0	3.9	10.0	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	2.9	10.0	
Tert-Butyl Alcohol (TBA)	ND	100	41	10.0	
Diisopropyl Ether (DIPE)	ND	5.0	2.4	10.0	
Ethyl-t-Butyl Ether (ETBE)	ND	5.0	2.2	10.0	
Tert-Amyl-Methyl Ether (TAME)	ND	5.0	2.4	10.0	
Ethanol	ND	500	170	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 21 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	68-120	
Dibromofluoromethane	106	80-127	
1,2-Dichloroethane-d4	96	80-128	
Toluene-d8	103	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
LG-2-20140916	**14-09-1264-7-B**	**09/16/14 14:19**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 15:37**	**140920L012**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	5500	200	58	400	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	89	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 22 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-29-20140916	**14-09-1264-8-B**	**09/16/14 09:29**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 16:05**	**140920L012**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	5.0	10	3.5	1.00	J
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	0.62	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	0.39	0.50	0.18	1.00	J
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 23 of 36

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/16/14
3995 Via Oro Ave	Work Order:	14-09-1264
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 24 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	88	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 25 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-12-20140916	**14-09-1264-9-B**	**09/16/14 08:24**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 16:34**	**140920L012**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	100	35	10.0	
Benzene	3.3	5.0	3.2	10.0	J
Bromobenzene	ND	5.0	3.3	10.0	
Bromochloromethane	ND	10	3.8	10.0	
Bromodichloromethane	ND	5.0	2.0	10.0	
Bromoform	ND	5.0	3.4	10.0	
Bromomethane	ND	10	3.8	10.0	
2-Butanone	ND	50	29	10.0	
n-Butylbenzene	ND	5.0	3.4	10.0	
sec-Butylbenzene	ND	5.0	2.3	10.0	
tert-Butylbenzene	ND	5.0	3.8	10.0	
Carbon Disulfide	ND	10	4.4	10.0	
Carbon Tetrachloride	ND	5.0	2.2	10.0	
Chlorobenzene	1900	5.0	1.4	10.0	E
Chloroethane	ND	5.0	3.4	10.0	
Chloroform	ND	5.0	2.2	10.0	
Chloromethane	ND	5.0	2.2	10.0	
2-Chlorotoluene	ND	5.0	3.4	10.0	
4-Chlorotoluene	ND	5.0	3.3	10.0	
Dibromochloromethane	ND	5.0	2.4	10.0	
1,2-Dibromo-3-Chloropropane	ND	50	29	10.0	
1,2-Dibromoethane	ND	5.0	3.4	10.0	
Dibromomethane	ND	5.0	3.4	10.0	
1,2-Dichlorobenzene	ND	5.0	1.7	10.0	
1,3-Dichlorobenzene	ND	5.0	1.7	10.0	
1,4-Dichlorobenzene	4.3	5.0	3.1	10.0	J
Dichlorodifluoromethane	ND	10	2.4	10.0	
1,1-Dichloroethane	ND	5.0	1.9	10.0	
1,2-Dichloroethane	ND	5.0	1.8	10.0	
1,1-Dichloroethene	ND	5.0	2.0	10.0	
c-1,2-Dichloroethene	ND	5.0	2.4	10.0	
t-1,2-Dichloroethene	ND	5.0	2.6	10.0	
1,2-Dichloropropane	ND	5.0	2.4	10.0	
1,3-Dichloropropane	ND	10	2.4	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 26 of 36

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	10	4.2	10.0	
1,1-Dichloropropene	ND	5.0	2.8	10.0	
c-1,3-Dichloropropene	ND	5.0	1.8	10.0	
t-1,3-Dichloropropene	ND	5.0	3.5	10.0	
Ethylbenzene	ND	5.0	3.2	10.0	
2-Hexanone	ND	100	26	10.0	
Isopropylbenzene	ND	5.0	4.2	10.0	
p-Isopropyltoluene	ND	5.0	1.4	10.0	
Methylene Chloride	ND	10	3.8	10.0	
4-Methyl-2-Pentanone	ND	50	27	10.0	
Naphthalene	ND	10	4.1	10.0	
n-Propylbenzene	ND	5.0	3.8	10.0	
Styrene	ND	5.0	3.2	10.0	
1,1,1,2-Tetrachloroethane	ND	5.0	2.4	10.0	
1,1,2,2-Tetrachloroethane	ND	5.0	2.2	10.0	
Tetrachloroethene	ND	5.0	2.2	10.0	
Toluene	ND	5.0	2.6	10.0	
1,2,3-Trichlorobenzene	ND	5.0	2.5	10.0	
1,2,4-Trichlorobenzene	ND	5.0	2.5	10.0	
1,1,1-Trichloroethane	ND	5.0	1.9	10.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	5.0	2.6	10.0	
1,1,2-Trichloroethane	ND	5.0	3.2	10.0	
Trichloroethene	ND	5.0	2.3	10.0	
Trichlorofluoromethane	ND	5.0	2.5	10.0	
1,2,3-Trichloropropane	ND	10	2.5	10.0	
1,2,4-Trimethylbenzene	ND	5.0	1.5	10.0	
1,3,5-Trimethylbenzene	ND	5.0	3.3	10.0	
Vinyl Acetate	ND	50	22	10.0	
Vinyl Chloride	ND	5.0	2.7	10.0	
p/m-Xylene	ND	5.0	2.4	10.0	
o-Xylene	ND	5.0	3.9	10.0	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	2.9	10.0	
Tert-Butyl Alcohol (TBA)	ND	100	41	10.0	
Diisopropyl Ether (DIPE)	ND	5.0	2.4	10.0	
Ethyl-t-Butyl Ether (ETBE)	ND	5.0	2.2	10.0	
Tert-Amyl-Methyl Ether (TAME)	ND	5.0	2.4	10.0	
Ethanol	ND	500	170	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 27 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	95	80-128	
Toluene-d8	101	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-12-20140916	**14-09-1264-9-A**	**09/16/14 08:24**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/20/14 08:42**	**140919L043**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	2300	50	14	100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	68-120	
Dibromofluoromethane	105	80-127	
1,2-Dichloroethane-d4	98	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 28 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-1200-20140916	**14-09-1264-10-B**	**09/16/14 08:24**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 17:02**	**140920L012**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	100	35	10.0	
Benzene	ND	5.0	3.2	10.0	
Bromobenzene	ND	5.0	3.3	10.0	
Bromochloromethane	ND	10	3.8	10.0	
Bromodichloromethane	ND	5.0	2.0	10.0	
Bromoform	ND	5.0	3.4	10.0	
Bromomethane	ND	10	3.8	10.0	
2-Butanone	ND	50	29	10.0	
n-Butylbenzene	ND	5.0	3.4	10.0	
sec-Butylbenzene	ND	5.0	2.3	10.0	
tert-Butylbenzene	ND	5.0	3.8	10.0	
Carbon Disulfide	ND	10	4.4	10.0	
Carbon Tetrachloride	ND	5.0	2.2	10.0	
Chlorobenzene	1900	5.0	1.4	10.0	E
Chloroethane	ND	5.0	3.4	10.0	
Chloroform	ND	5.0	2.2	10.0	
Chloromethane	ND	5.0	2.2	10.0	
2-Chlorotoluene	ND	5.0	3.4	10.0	
4-Chlorotoluene	ND	5.0	3.3	10.0	
Dibromochloromethane	ND	5.0	2.4	10.0	
1,2-Dibromo-3-Chloropropane	ND	50	29	10.0	
1,2-Dibromoethane	ND	5.0	3.4	10.0	
Dibromomethane	ND	5.0	3.4	10.0	
1,2-Dichlorobenzene	ND	5.0	1.7	10.0	
1,3-Dichlorobenzene	ND	5.0	1.7	10.0	
1,4-Dichlorobenzene	4.4	5.0	3.1	10.0	J
Dichlorodifluoromethane	ND	10	2.4	10.0	
1,1-Dichloroethane	ND	5.0	1.9	10.0	
1,2-Dichloroethane	ND	5.0	1.8	10.0	
1,1-Dichloroethene	ND	5.0	2.0	10.0	
c-1,2-Dichloroethene	ND	5.0	2.4	10.0	
t-1,2-Dichloroethene	ND	5.0	2.6	10.0	
1,2-Dichloropropane	ND	5.0	2.4	10.0	
1,3-Dichloropropane	ND	10	2.4	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 29 of 36

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	10	4.2	10.0	
1,1-Dichloropropene	ND	5.0	2.8	10.0	
c-1,3-Dichloropropene	ND	5.0	1.8	10.0	
t-1,3-Dichloropropene	ND	5.0	3.5	10.0	
Ethylbenzene	ND	5.0	3.2	10.0	
2-Hexanone	ND	100	26	10.0	
Isopropylbenzene	ND	5.0	4.2	10.0	
p-Isopropyltoluene	ND	5.0	1.4	10.0	
Methylene Chloride	ND	10	3.8	10.0	
4-Methyl-2-Pentanone	ND	50	27	10.0	
Naphthalene	ND	10	4.1	10.0	
n-Propylbenzene	ND	5.0	3.8	10.0	
Styrene	ND	5.0	3.2	10.0	
1,1,1,2-Tetrachloroethane	ND	5.0	2.4	10.0	
1,1,2,2-Tetrachloroethane	ND	5.0	2.2	10.0	
Tetrachloroethene	ND	5.0	2.2	10.0	
Toluene	ND	5.0	2.6	10.0	
1,2,3-Trichlorobenzene	ND	5.0	2.5	10.0	
1,2,4-Trichlorobenzene	ND	5.0	2.5	10.0	
1,1,1-Trichloroethane	ND	5.0	1.9	10.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	5.0	2.6	10.0	
1,1,2-Trichloroethane	ND	5.0	3.2	10.0	
Trichloroethene	ND	5.0	2.3	10.0	
Trichlorofluoromethane	ND	5.0	2.5	10.0	
1,2,3-Trichloropropane	ND	10	2.5	10.0	
1,2,4-Trimethylbenzene	ND	5.0	1.5	10.0	
1,3,5-Trimethylbenzene	ND	5.0	3.3	10.0	
Vinyl Acetate	ND	50	22	10.0	
Vinyl Chloride	ND	5.0	2.7	10.0	
p/m-Xylene	ND	5.0	2.4	10.0	
o-Xylene	ND	5.0	3.9	10.0	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	2.9	10.0	
Tert-Butyl Alcohol (TBA)	ND	100	41	10.0	
Diisopropyl Ether (DIPE)	ND	5.0	2.4	10.0	
Ethyl-t-Butyl Ether (ETBE)	ND	5.0	2.2	10.0	
Tert-Amyl-Methyl Ether (TAME)	ND	5.0	2.4	10.0	
Ethanol	ND	500	170	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 30 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	95	80-128	
Toluene-d8	102	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BF-1200-20140916	**14-09-1264-10-A**	**09/16/14 08:24**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/20/14 09:10**	**140919L043**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	2300	50	14	100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	95	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 31 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-76**	**N/A**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 11:23**	**140919L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 32 of 36

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 33 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	86	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	97	80-128	
Toluene-d8	102	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-77**	**N/A**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 23:14**	**140919L043**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chlorobenzene	ND	0.50	0.14	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	93	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 34 of 36

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-78**	**N/A**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 12:46**	**140920L012**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 35 of 36

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/16/14
3995 Via Oro Ave	Work Order:	14-09-1264
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 36 of 36

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	91	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-1187-5	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 15:35**	**140917S01**
14-09-1187-5	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 16:52**	**140917S01**
14-09-1187-5	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 17:12**	**140917S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	25.00	23.14	93	23.29	93	70-130	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
G-15-20140916	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/18/14 13:38**	**140918S01**
G-15-20140916	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/18/14 16:06**	**140918S01**
G-15-20140916	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/18/14 16:26**	**140918S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	25.00	23.68	95	24.88	100	70-130	5	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-1187-3	**Sample**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 12:48**	**140919S001**
14-09-1187-3	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 15:11**	**140919S001**
14-09-1187-3	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 15:39**	**140919S001**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	11.54	115	10.69	107	80-120	8	0-20	
Benzene	ND	10.00	10.43	104	10.50	105	76-124	1	0-20	
Bromobenzene	ND	10.00	9.738	97	9.768	98	80-120	0	0-20	
Bromochloromethane	ND	10.00	9.966	100	9.953	100	80-120	0	0-20	
Bromodichloromethane	ND	10.00	9.428	94	9.649	96	80-120	2	0-20	
Bromoform	ND	10.00	9.129	91	9.579	96	80-120	5	0-20	
Bromomethane	ND	10.00	5.699	57	6.538	65	80-120	14	0-20	3
2-Butanone	ND	10.00	11.55	116	10.36	104	80-120	11	0-20	
n-Butylbenzene	ND	10.00	11.00	110	11.30	113	80-120	3	0-25	
sec-Butylbenzene	ND	10.00	11.03	110	11.28	113	80-120	2	0-20	
tert-Butylbenzene	ND	10.00	10.82	108	11.02	110	80-120	2	0-20	
Carbon Disulfide	ND	10.00	9.910	99	10.18	102	80-120	3	0-20	
Carbon Tetrachloride	ND	10.00	8.513	85	9.119	91	74-134	7	0-20	
Chlorobenzene	ND	10.00	10.70	107	10.72	107	80-120	0	0-20	
Chloroethane	ND	10.00	13.93	139	11.65	117	80-120	18	0-20	3
2-Chloroethyl Vinyl Ether	ND	10.00	0.1175	1	0.6399	6	80-120	138	0-20	3,4
Chloroform	ND	10.00	9.055	91	9.471	95	80-120	4	0-20	
Chloromethane	ND	10.00	10.17	102	10.29	103	80-120	1	0-20	
2-Chlorotoluene	ND	10.00	10.83	108	10.68	107	80-120	1	0-20	
4-Chlorotoluene	ND	10.00	10.27	103	10.54	105	80-120	3	0-20	
Dibromochloromethane	ND	10.00	9.478	95	9.737	97	80-120	3	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	7.988	80	8.415	84	80-120	5	0-20	
1,2-Dibromoethane	ND	10.00	9.405	94	9.729	97	80-120	3	0-20	
Dibromomethane	ND	10.00	9.470	95	9.575	96	80-120	1	0-20	
1,2-Dichlorobenzene	ND	10.00	10.37	104	10.54	105	80-120	2	0-20	
1,3-Dichlorobenzene	ND	10.00	10.38	104	10.47	105	80-120	1	0-20	
1,4-Dichlorobenzene	ND	10.00	9.775	98	9.824	98	80-120	0	0-20	
Dichlorodifluoromethane	ND	10.00	9.715	97	9.941	99	80-120	2	0-20	
1,1-Dichloroethane	ND	10.00	9.488	95	9.573	96	80-120	1	0-20	
1,2-Dichloroethane	ND	10.00	8.508	85	8.675	87	80-120	2	0-20	
1,1-Dichloroethene	ND	10.00	9.318	93	10.04	100	73-127	7	0-20	
c-1,2-Dichloroethene	ND	10.00	10.25	103	10.48	105	80-120	2	0-20	
t-1,2-Dichloroethene	ND	10.00	9.739	97	10.18	102	80-120	4	0-20	
Acetonitrile	ND	10.00	20.02	200	20.80	208	80-120	4	0-20	3
1,2-Dichloropropane	ND	10.00	10.41	104	10.66	107	80-120	2	0-25	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 12

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acrolein	ND	20.00	19.76	99	20.67	103	80-120	4	0-20	
Acrylonitrile	ND	10.00	9.607	96	9.822	98	80-120	2	0-20	
1,3-Dichloropropane	ND	10.00	10.12	101	10.07	101	80-120	1	0-20	
2,2-Dichloropropane	ND	10.00	8.900	89	9.282	93	80-120	4	0-20	
Allyl Chloride	ND	10.00	11.24	112	11.13	111	80-120	1	0-20	
1,1-Dichloropropene	ND	10.00	9.726	97	10.08	101	80-120	4	0-20	
c-1,3-Dichloropropene	ND	10.00	9.455	95	9.822	98	80-120	4	0-20	
t-1,3-Dichloropropene	ND	10.00	7.706	77	7.994	80	80-120	4	0-20	3
Ethylbenzene	ND	10.00	10.47	105	10.45	105	78-126	0	0-20	
2-Hexanone	ND	10.00	9.251	93	9.042	90	80-120	2	0-20	
Isopropylbenzene	ND	10.00	10.94	109	11.00	110	80-120	0	0-20	
p-Isopropyltoluene	ND	10.00	9.704	97	9.974	100	80-120	3	0-20	
Methylene Chloride	ND	10.00	10.05	100	10.52	105	80-120	5	0-20	
4-Methyl-2-Pentanone	ND	10.00	9.160	92	9.188	92	80-120	0	0-20	
Naphthalene	ND	10.00	10.92	109	11.55	116	80-120	6	0-20	
n-Propylbenzene	ND	10.00	10.77	108	10.83	108	80-120	1	0-20	
Styrene	ND	10.00	10.56	106	10.58	106	80-120	0	0-20	
Chloroprene	ND	10.00	9.055	91	9.401	94	80-120	4	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	9.243	92	9.495	95	80-120	3	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.11	101	10.46	105	80-120	3	0-20	
Tetrachloroethene	ND	10.00	8.603	86	8.732	87	80-120	1	0-20	
Toluene	ND	10.00	10.06	101	10.26	103	80-120	2	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.32	103	10.73	107	80-120	4	0-20	
Ethyl Methacrylate	ND	10.00	8.597	86	8.996	90	80-120	5	0-20	
1,2,4-Trichlorobenzene	ND	10.00	10.06	101	10.26	103	80-120	2	0-20	
1,1,1-Trichloroethane	ND	10.00	8.647	86	9.093	91	80-120	5	0-20	
Hexachloro-1,3-Butadiene	ND	10.00	9.377	94	9.387	94	80-120	0	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	9.057	91	9.536	95	80-120	5	0-20	
1,1,2-Trichloroethane	ND	10.00	10.31	103	10.25	102	80-120	1	0-20	
Iodomethane	ND	10.00	21.18	212	25.68	257	80-120	19	0-20	3
Trichloroethene	ND	10.00	9.531	95	9.722	97	77-120	2	0-20	
Trichlorofluoromethane	ND	10.00	8.462	85	8.725	87	80-120	3	0-20	
Isobutyl Alcohol	ND	20.00	17.07	85	24.05	120	80-120	34	0-20	4
1,2,3-Trichloropropane	ND	10.00	8.760	88	8.575	86	80-120	2	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.34	103	10.53	105	80-120	2	0-20	
Methacrylonitrile	ND	10.00	9.266	93	9.722	97	80-120	5	0-20	
Methyl Methacrylate	ND	10.00	9.921	99	9.857	99	80-120	1	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.81	108	10.87	109	80-120	1	0-20	
Vinyl Acetate	ND	10.00	9.621	96	10.01	100	80-120	4	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 12

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	ND	10.00	10.69	107	11.52	115	72-126	7	0-20	
p/m-Xylene	ND	20.00	21.78	109	21.85	109	80-120	0	0-20	
o-Xylene	ND	10.00	11.13	111	11.00	110	80-120	1	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	8.375	84	8.750	88	67-121	4	0-49	
t-1,4-Dichloro-2-Butene	ND	10.00	5.904	59	5.564	56	80-120	6	0-20	3
Tetrahydrofuran	ND	10.00	27.38	274	14.45	144	80-120	62	0-20	3,4
Propionitrile	ND	10.00	9.175	92	10.89	109	80-120	17	0-20	
Tert-Butyl Alcohol (TBA)	ND	50.00	49.75	100	54.14	108	36-162	8	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	9.798	98	10.16	102	60-138	4	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	8.902	89	9.282	93	69-123	4	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.252	93	9.245	92	65-120	0	0-20	
Ethanol	ND	100.0	99.76	100	129.5	129	30-180	26	0-72	

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RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 6 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-1187-3	**Sample**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 12:48**	**140919S001**
14-09-1187-3	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 15:11**	**140919S001**
14-09-1187-3	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 15:39**	**140919S001**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.682	97	9.806	98	68-120	
Dibromofluoromethane	10.00	9.440	94	9.606	96	80-127	
1,2-Dichloroethane-d4	10.00	8.476	85	8.654	87	80-128	
Toluene-d8	10.00	10.16	102	10.13	101	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0967-1	**Sample**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 23:42**	**140919S019**
14-09-0967-1	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/20/14 00:11**	**140919S019**
14-09-0967-1	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/20/14 00:39**	**140919S019**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	10.00	10.74	107	10.33	103	75-125	4	0-20	
Carbon Tetrachloride	ND	10.00	8.501	85	9.066	91	69-135	6	0-20	
Chlorobenzene	ND	10.00	10.85	109	10.53	105	75-125	3	0-20	
1,2-Dibromoethane	ND	10.00	9.741	97	9.458	95	75-126	3	0-20	
1,2-Dichlorobenzene	ND	10.00	10.45	104	10.42	104	75-125	0	0-20	
1,2-Dichloroethane	ND	10.00	8.583	86	8.627	86	75-127	1	0-20	
1,1-Dichloroethene	ND	10.00	9.260	93	9.404	94	66-126	2	0-20	
Ethylbenzene	ND	10.00	10.57	106	10.33	103	75-125	2	0-20	
Toluene	ND	10.00	10.24	102	10.32	103	75-125	1	0-20	
Trichloroethene	ND	10.00	9.668	97	9.419	94	75-125	3	0-20	
Vinyl Chloride	ND	10.00	10.29	103	10.84	108	52-142	5	0-20	
p/m-Xylene	ND	20.00	22.22	111	21.51	108	75-125	3	0-20	
o-Xylene	ND	10.00	11.38	114	11.00	110	75-127	3	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	8.727	87	8.618	86	71-131	1	0-20	
Tert-Butyl Alcohol (TBA)	227.8	50.00	286.6	118	277.0	98	20-180	3	0-40	
Diisopropyl Ether (DIPE)	ND	10.00	10.03	100	9.827	98	64-136	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	8.969	90	8.905	89	73-133	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.152	92	9.160	92	75-125	0	0-20	
Ethanol	ND	100.0	129.5	130	121.0	121	73-139	7	0-27	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-0967-1	**Sample**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 23:42**	**140919S019**
14-09-0967-1	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/20/14 00:11**	**140919S019**
14-09-0967-1	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/20/14 00:39**	**140919S019**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.868	99	9.836	98	68-120	
Dibromofluoromethane	10.00	9.564	96	9.563	96	80-127	
1,2-Dichloroethane-d4	10.00	8.574	86	8.358	84	80-128	
Toluene-d8	10.00	10.21	102	10.38	104	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 9 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-1462-3	**Sample**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 14:11**	**140920S006**
14-09-1462-3	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 14:40**	**140920S006**
14-09-1462-3	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 15:08**	**140920S006**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	9.481	95	9.854	99	80-120	4	0-20	
Benzene	ND	10.00	10.29	103	10.06	101	76-124	2	0-20	
Bromobenzene	ND	10.00	9.811	98	9.445	94	80-120	4	0-20	
Bromochloromethane	ND	10.00	9.830	98	10.06	101	80-120	2	0-20	
Bromodichloromethane	ND	10.00	9.387	94	9.384	94	80-120	0	0-20	
Bromoform	ND	10.00	9.036	90	9.412	94	80-120	4	0-20	
Bromomethane	ND	10.00	8.436	84	8.471	85	80-120	0	0-20	
2-Butanone	ND	10.00	9.386	94	9.221	92	80-120	2	0-20	
n-Butylbenzene	ND	10.00	11.12	111	10.76	108	80-120	3	0-25	
sec-Butylbenzene	ND	10.00	11.11	111	10.69	107	80-120	4	0-20	
tert-Butylbenzene	ND	10.00	10.91	109	10.43	104	80-120	4	0-20	
Carbon Disulfide	ND	10.00	8.813	88	8.758	88	80-120	1	0-20	
Carbon Tetrachloride	ND	10.00	8.156	82	8.343	83	74-134	2	0-20	
Chlorobenzene	ND	10.00	10.74	107	10.33	103	80-120	4	0-20	
Chloroethane	ND	10.00	10.60	106	11.09	111	80-120	4	0-20	
2-Chloroethyl Vinyl Ether	ND	10.00	0.3417	3	0.2760	3	80-120	21	0-20	3,4
Chloroform	ND	10.00	8.987	90	9.066	91	80-120	1	0-20	
Chloromethane	ND	10.00	9.900	99	10.40	104	80-120	5	0-20	
2-Chlorotoluene	ND	10.00	10.85	108	10.42	104	80-120	4	0-20	
4-Chlorotoluene	ND	10.00	10.29	103	10.04	100	80-120	2	0-20	
Dibromochloromethane	ND	10.00	9.291	93	9.425	94	80-120	1	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	8.245	82	8.435	84	80-120	2	0-20	
1,2-Dibromoethane	ND	10.00	9.434	94	9.496	95	80-120	1	0-20	
Dibromomethane	ND	10.00	9.464	95	9.097	91	80-120	4	0-20	
1,2-Dichlorobenzene	ND	10.00	10.49	105	10.29	103	80-120	2	0-20	
1,3-Dichlorobenzene	ND	10.00	10.37	104	10.23	102	80-120	1	0-20	
1,4-Dichlorobenzene	ND	10.00	9.904	99	9.560	96	80-120	4	0-20	
Dichlorodifluoromethane	ND	10.00	9.271	93	10.09	101	80-120	8	0-20	
1,1-Dichloroethane	ND	10.00	9.231	92	9.329	93	80-120	1	0-20	
1,2-Dichloroethane	ND	10.00	8.441	84	8.268	83	80-120	2	0-20	
1,1-Dichloroethene	ND	10.00	9.240	92	9.263	93	73-127	0	0-20	
c-1,2-Dichloroethene	ND	10.00	9.879	99	10.16	102	80-120	3	0-20	
t-1,2-Dichloroethene	ND	10.00	9.493	95	9.580	96	80-120	1	0-20	
Acetonitrile	ND	10.00	19.96	200	19.43	194	80-120	3	0-20	3
1,2-Dichloropropane	ND	10.00	10.66	107	10.25	102	80-120	4	0-25	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 12

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acrolein	ND	20.00	19.57	98	20.81	104	80-120	6	0-20	
Acrylonitrile	ND	10.00	9.256	93	10.06	101	80-120	8	0-20	
1,3-Dichloropropane	ND	10.00	10.03	100	9.866	99	80-120	2	0-20	
2,2-Dichloropropane	ND	10.00	8.528	85	8.437	84	80-120	1	0-20	
Allyl Chloride	ND	10.00	10.06	101	10.09	101	80-120	0	0-20	
1,1-Dichloropropene	ND	10.00	9.645	96	9.564	96	80-120	1	0-20	
c-1,3-Dichloropropene	ND	10.00	9.607	96	9.690	97	80-120	1	0-20	
t-1,3-Dichloropropene	ND	10.00	7.722	77	7.800	78	80-120	1	0-20	3
Ethylbenzene	ND	10.00	10.47	105	10.01	100	78-126	5	0-20	
2-Hexanone	ND	10.00	8.900	89	9.332	93	80-120	5	0-20	
Isopropylbenzene	ND	10.00	11.01	110	10.53	105	80-120	4	0-20	
p-Isopropyltoluene	ND	10.00	9.737	97	9.358	94	80-120	4	0-20	
Methylene Chloride	ND	10.00	9.830	98	10.02	100	80-120	2	0-20	
4-Methyl-2-Pentanone	ND	10.00	8.930	89	9.715	97	80-120	8	0-20	
Naphthalene	ND	10.00	10.40	104	10.72	107	80-120	3	0-20	
n-Propylbenzene	ND	10.00	10.96	110	10.35	104	80-120	6	0-20	
Styrene	ND	10.00	10.70	107	10.40	104	80-120	3	0-20	
Chloroprene	ND	10.00	8.636	86	8.567	86	80-120	1	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	9.271	93	9.234	92	80-120	0	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.32	103	10.24	102	80-120	1	0-20	
Tetrachloroethene	ND	10.00	8.595	86	7.837	78	80-120	9	0-20	3
Toluene	ND	10.00	10.07	101	9.694	97	80-120	4	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.30	103	10.26	103	80-120	0	0-20	
Ethyl Methacrylate	ND	10.00	8.460	85	8.691	87	80-120	3	0-20	
1,2,4-Trichlorobenzene	ND	10.00	9.993	100	10.04	100	80-120	0	0-20	
1,1,1-Trichloroethane	ND	10.00	8.211	82	8.357	84	80-120	2	0-20	
Hexachloro-1,3-Butadiene	ND	10.00	9.324	93	9.006	90	80-120	3	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	8.883	89	8.698	87	80-120	2	0-20	
1,1,2-Trichloroethane	ND	10.00	10.47	105	10.07	101	80-120	4	0-20	
Iodomethane	ND	10.00	17.78	178	22.68	227	80-120	24	0-20	3,4
Trichloroethene	ND	10.00	9.277	93	9.096	91	77-120	2	0-20	
Trichlorofluoromethane	ND	10.00	8.306	83	8.714	87	80-120	5	0-20	
Isobutyl Alcohol	ND	20.00	17.83	89	21.67	108	80-120	19	0-20	
1,2,3-Trichloropropane	ND	10.00	8.459	85	8.884	89	80-120	5	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.49	105	10.20	102	80-120	3	0-20	
Methacrylonitrile	ND	10.00	8.979	90	9.966	100	80-120	10	0-20	
Methyl Methacrylate	ND	10.00	9.376	94	9.807	98	80-120	4	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.91	109	10.55	105	80-120	3	0-20	
Vinyl Acetate	ND	10.00	9.400	94	9.787	98	80-120	4	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 12

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	ND	10.00	10.43	104	11.52	115	72-126	10	0-20	
p/m-Xylene	ND	20.00	21.87	109	20.99	105	80-120	4	0-20	
o-Xylene	ND	10.00	11.16	112	10.79	108	80-120	3	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	8.120	81	8.566	86	67-121	5	0-49	
t-1,4-Dichloro-2-Butene	ND	10.00	5.743	57	5.988	60	80-120	4	0-20	3
Tetrahydrofuran	ND	10.00	9.458	95	9.869	99	80-120	4	0-20	
Propionitrile	ND	10.00	9.444	94	10.81	108	80-120	13	0-20	
Tert-Butyl Alcohol (TBA)	ND	50.00	51.38	103	53.21	106	36-162	4	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	9.675	97	10.01	100	60-138	3	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	8.554	86	8.841	88	69-123	3	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	8.813	88	8.894	89	65-120	1	0-20	
Ethanol	ND	100.0	128.9	129	139.3	139	30-180	8	0-72	

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RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 12 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-1462-3	**Sample**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 14:11**	**140920S006**
14-09-1462-3	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 14:40**	**140920S006**
14-09-1462-3	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 15:08**	**140920S006**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.957	100	9.778	98	68-120	
Dibromofluoromethane	10.00	9.538	95	9.565	96	80-127	
1,2-Dichloroethane-d4	10.00	8.469	85	8.576	86	80-128	
Toluene-d8	10.00	10.26	103	10.13	101	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-41	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/17/14 14:17**	**140917L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	24.14	97	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-080-45	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/18/14 12:20**	**140918L01**
099-15-080-45	**LCSD**	**Aqueous**	**IC 8**	**N/A**	**09/18/14 12:40**	**140918L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	24.64	99	25.19	101	80-120	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-76	**LCS**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 10:14**	**140919L001**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	19.13	191	80-120	73-127	X
Benzene	10.00	10.39	104	80-120	73-127	
Bromobenzene	10.00	10.10	101	80-120	73-127	
Bromochloromethane	10.00	10.10	101	80-120	73-127	
Bromodichloromethane	10.00	9.629	96	80-120	73-127	
Bromoform	10.00	9.220	92	80-120	73-127	
Bromomethane	10.00	11.00	110	80-120	73-127	
2-Butanone	10.00	15.97	160	80-120	73-127	X
n-Butylbenzene	10.00	11.02	110	77-123	69-131	
sec-Butylbenzene	10.00	11.21	112	80-120	73-127	
tert-Butylbenzene	10.00	10.94	109	80-120	73-127	
Carbon Disulfide	10.00	8.687	87	80-120	73-127	
Carbon Tetrachloride	10.00	8.339	83	74-134	64-144	
Chlorobenzene	10.00	10.82	108	80-120	73-127	
Chloroethane	10.00	9.861	99	80-120	73-127	
2-Chloroethyl Vinyl Ether	10.00	4.538	45	80-120	73-127	X
Chloroform	10.00	9.361	94	80-120	73-127	
Chloromethane	10.00	12.02	120	80-120	73-127	
2-Chlorotoluene	10.00	10.88	109	80-120	73-127	
4-Chlorotoluene	10.00	10.55	106	80-120	73-127	
Dibromochloromethane	10.00	9.648	96	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	8.834	88	80-120	73-127	
1,2-Dibromoethane	10.00	9.762	98	79-121	72-128	
Dibromomethane	10.00	9.738	97	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.81	108	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.69	107	80-120	73-127	
1,4-Dichlorobenzene	10.00	9.949	99	80-120	73-127	
Dichlorodifluoromethane	10.00	10.31	103	80-120	73-127	
1,1-Dichloroethane	10.00	9.559	96	80-120	73-127	
1,2-Dichloroethane	10.00	8.998	90	80-120	73-127	
1,1-Dichloroethene	10.00	9.748	97	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.34	103	80-120	73-127	
t-1,2-Dichloroethene	10.00	10.01	100	80-120	73-127	
Acetonitrile	20.00	22.26	111	80-120	73-127	
1,2-Dichloropropane	10.00	10.66	107	79-115	73-121	
Acrolein	20.00	28.98	145	80-120	73-127	X
Acrylonitrile	10.00	10.26	103	80-120	73-127	
1,3-Dichloropropane	10.00	10.33	103	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 14

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
2,2-Dichloropropane	10.00	9.274	93	80-120	73-127	
Allyl Chloride	10.00	10.61	106	80-120	73-127	
1,1-Dichloropropene	10.00	9.804	98	80-120	73-127	
c-1,3-Dichloropropene	10.00	10.03	100	80-120	73-127	
t-1,3-Dichloropropene	10.00	7.905	79	80-120	73-127	ME
Ethylbenzene	10.00	10.53	105	80-120	73-127	
2-Hexanone	10.00	13.03	130	80-120	73-127	X
Isopropylbenzene	10.00	11.02	110	80-120	73-127	
p-Isopropyltoluene	10.00	9.877	99	80-120	73-127	
Methylene Chloride	10.00	10.23	102	80-120	73-127	
4-Methyl-2-Pentanone	10.00	9.776	98	80-120	73-127	
Naphthalene	10.00	10.73	107	80-120	73-127	
n-Propylbenzene	10.00	10.89	109	80-120	73-127	
Styrene	10.00	10.80	108	80-120	73-127	
Chloroprene	10.00	9.551	96	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	9.119	91	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	10.65	107	80-120	73-127	
Tetrachloroethene	10.00	9.118	91	80-120	73-127	
Toluene	10.00	10.30	103	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	10.56	106	80-120	73-127	
Ethyl Methacrylate	10.00	8.401	84	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	10.19	102	80-120	73-127	
1,1,1-Trichloroethane	10.00	9.330	93	80-120	73-127	
Hexachloro-1,3-Butadiene	10.00	9.558	96	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	9.414	94	80-120	73-127	
1,1,2-Trichloroethane	10.00	10.59	106	80-120	73-127	
Iodomethane	20.00	16.70	84	80-120	73-127	
Trichloroethene	10.00	9.698	97	79-127	71-135	
Trichlorofluoromethane	10.00	9.391	94	80-120	73-127	
Isobutyl Alcohol	20.00	18.49	92	80-120	73-127	
1,2,3-Trichloropropane	10.00	9.228	92	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.58	106	80-120	73-127	
Methacrylonitrile	10.00	9.619	96	80-120	73-127	
Methyl Methacrylate	10.00	10.12	101	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	11.13	111	80-120	73-127	
Vinyl Acetate	10.00	9.896	99	80-120	73-127	
Vinyl Chloride	10.00	11.66	117	72-132	62-142	
p/m-Xylene	20.00	21.90	110	80-120	73-127	
o-Xylene	10.00	11.05	110	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	8.965	90	69-123	60-132	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM	Date Received:	09/16/14
3995 Via Oro Ave	Work Order:	14-09-1264
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B

Project: Montrose 2014 BL GW Sampling / 60288979.13.02

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
t-1,4-Dichloro-2-Butene	10.00	6.512	65	80-120	73-127	X
Tetrahydrofuran	10.00	10.18	102	80-120	73-127	
Propionitrile	10.00	10.60	106	80-120	73-127	
Tert-Butyl Alcohol (TBA)	50.00	50.44	101	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	10.18	102	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.255	93	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	9.261	93	70-120	62-128	
Ethanol	100.0	130.2	130	28-160	6-182	

Total number of LCS compounds: 86
Total number of ME compounds: 1
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 6 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-76	**LCS**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 10:14**	**140919L001**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.893	99	68-120	
Dibromofluoromethane	10.00	9.872	99	80-127	
1,2-Dichloroethane-d4	10.00	8.930	89	80-128	
Toluene-d8	10.00	10.19	102	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-77	**LCS**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 22:17**	**140919L043**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	14.10	141	80-120	73-127	X
Benzene	10.00	10.80	108	80-120	73-127	
Bromobenzene	10.00	10.03	100	80-120	73-127	
Bromochloromethane	10.00	9.752	98	80-120	73-127	
Bromodichloromethane	10.00	9.792	98	80-120	73-127	
Bromoform	10.00	9.508	95	80-120	73-127	
Bromomethane	10.00	7.885	79	80-120	73-127	ME
2-Butanone	10.00	12.01	120	80-120	73-127	
n-Butylbenzene	10.00	10.71	107	77-123	69-131	
sec-Butylbenzene	10.00	10.96	110	80-120	73-127	
tert-Butylbenzene	10.00	10.79	108	80-120	73-127	
Carbon Disulfide	10.00	8.653	87	80-120	73-127	
Carbon Tetrachloride	10.00	9.257	93	74-134	64-144	
Chlorobenzene	10.00	10.76	108	80-120	73-127	
Chloroethane	10.00	9.999	100	80-120	73-127	
2-Chloroethyl Vinyl Ether	10.00	2.778	28	80-120	73-127	X
Chloroform	10.00	9.333	93	80-120	73-127	
Chloromethane	10.00	10.94	109	80-120	73-127	
2-Chlorotoluene	10.00	10.95	110	80-120	73-127	
4-Chlorotoluene	10.00	10.50	105	80-120	73-127	
Dibromochloromethane	10.00	9.654	97	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	8.585	86	80-120	73-127	
1,2-Dibromoethane	10.00	9.552	96	79-121	72-128	
Dibromomethane	10.00	9.571	96	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.55	106	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.55	106	80-120	73-127	
1,4-Dichlorobenzene	10.00	9.902	99	80-120	73-127	
Dichlorodifluoromethane	10.00	9.331	93	80-120	73-127	
1,1-Dichloroethane	10.00	9.543	95	80-120	73-127	
1,2-Dichloroethane	10.00	8.916	89	80-120	73-127	
1,1-Dichloroethene	10.00	9.575	96	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.60	106	80-120	73-127	
t-1,2-Dichloroethene	10.00	10.06	101	80-120	73-127	
Acetonitrile	20.00	20.65	103	80-120	73-127	
1,2-Dichloropropane	10.00	11.14	111	79-115	73-121	
Acrolein	20.00	27.51	138	80-120	73-127	X
Acrylonitrile	10.00	9.961	100	80-120	73-127	
1,3-Dichloropropane	10.00	10.14	101	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 14

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
2,2-Dichloropropane	10.00	8.464	85	80-120	73-127	
Allyl Chloride	10.00	10.53	105	80-120	73-127	
1,1-Dichloropropene	10.00	9.798	98	80-120	73-127	
c-1,3-Dichloropropene	10.00	9.450	95	80-120	73-127	
t-1,3-Dichloropropene	10.00	7.819	78	80-120	73-127	ME
Ethylbenzene	10.00	10.52	105	80-120	73-127	
2-Hexanone	10.00	10.74	107	80-120	73-127	
Isopropylbenzene	10.00	10.87	109	80-120	73-127	
p-Isopropyltoluene	10.00	9.667	97	80-120	73-127	
Methylene Chloride	10.00	10.16	102	80-120	73-127	
4-Methyl-2-Pentanone	10.00	9.643	96	80-120	73-127	
Naphthalene	10.00	10.86	109	80-120	73-127	
n-Propylbenzene	10.00	10.82	108	80-120	73-127	
Styrene	10.00	10.78	108	80-120	73-127	
Chloroprene	10.00	9.049	90	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	9.427	94	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	10.44	104	80-120	73-127	
Tetrachloroethene	10.00	9.903	99	80-120	73-127	
Toluene	10.00	9.994	100	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	10.62	106	80-120	73-127	
Ethyl Methacrylate	10.00	8.904	89	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	9.999	100	80-120	73-127	
1,1,1-Trichloroethane	10.00	9.037	90	80-120	73-127	
Hexachloro-1,3-Butadiene	10.00	9.109	91	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	8.735	87	80-120	73-127	
1,1,2-Trichloroethane	10.00	10.45	104	80-120	73-127	
Iodomethane	20.00	18.44	92	80-120	73-127	
Trichloroethene	10.00	9.858	99	79-127	71-135	
Trichlorofluoromethane	10.00	8.370	84	80-120	73-127	
Isobutyl Alcohol	20.00	37.06	185	80-120	73-127	X
1,2,3-Trichloropropane	10.00	8.895	89	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.48	105	80-120	73-127	
Methacrylonitrile	10.00	9.873	99	80-120	73-127	
Methyl Methacrylate	10.00	10.38	104	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.98	110	80-120	73-127	
Vinyl Acetate	10.00	10.01	100	80-120	73-127	
Vinyl Chloride	10.00	10.57	106	72-132	62-142	
p/m-Xylene	20.00	21.93	110	80-120	73-127	
o-Xylene	10.00	11.23	112	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	8.655	87	69-123	60-132	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM	Date Received:	09/16/14
3995 Via Oro Ave	Work Order:	14-09-1264
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B

Project: Montrose 2014 BL GW Sampling / 60288979.13.02

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
t-1,4-Dichloro-2-Butene	10.00	6.048	60	80-120	73-127	X
Tetrahydrofuran	10.00	9.379	94	80-120	73-127	
Propionitrile	10.00	11.07	111	80-120	73-127	
Tert-Butyl Alcohol (TBA)	50.00	50.99	102	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	10.20	102	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.300	93	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	9.644	96	70-120	62-128	
Ethanol	100.0	126.0	126	28-160	6-182	

Total number of LCS compounds: 86
Total number of ME compounds: 2
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-77	**LCS**	**Aqueous**	**GC/MS L**	**09/19/14**	**09/19/14 22:17**	**140919L043**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.06	101	68-120	
Dibromofluoromethane	10.00	9.772	98	80-127	
1,2-Dichloroethane-d4	10.00	9.021	90	80-128	
Toluene-d8	10.00	9.930	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-78	**LCS**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 11:38**	**140920L012**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	20.23	202	80-120	73-127	X
Benzene	10.00	10.59	106	80-120	73-127	
Bromobenzene	10.00	10.01	100	80-120	73-127	
Bromochloromethane	10.00	9.682	97	80-120	73-127	
Bromodichloromethane	10.00	9.756	98	80-120	73-127	
Bromoform	10.00	9.333	93	80-120	73-127	
Bromomethane	10.00	10.11	101	80-120	73-127	
2-Butanone	10.00	14.29	143	80-120	73-127	X
n-Butylbenzene	10.00	11.31	113	77-123	69-131	
sec-Butylbenzene	10.00	11.48	115	80-120	73-127	
tert-Butylbenzene	10.00	11.09	111	80-120	73-127	
Carbon Disulfide	10.00	8.916	89	80-120	73-127	
Carbon Tetrachloride	10.00	9.015	90	74-134	64-144	
Chlorobenzene	10.00	10.69	107	80-120	73-127	
Chloroethane	10.00	10.11	101	80-120	73-127	
2-Chloroethyl Vinyl Ether	10.00	2.572	26	80-120	73-127	X
Chloroform	10.00	9.226	92	80-120	73-127	
Chloromethane	10.00	11.86	119	80-120	73-127	
2-Chlorotoluene	10.00	11.12	111	80-120	73-127	
4-Chlorotoluene	10.00	10.60	106	80-120	73-127	
Dibromochloromethane	10.00	9.746	97	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	8.095	81	80-120	73-127	
1,2-Dibromoethane	10.00	9.564	96	79-121	72-128	
Dibromomethane	10.00	9.420	94	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.52	105	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.59	106	80-120	73-127	
1,4-Dichlorobenzene	10.00	9.961	100	80-120	73-127	
Dichlorodifluoromethane	10.00	10.19	102	80-120	73-127	
1,1-Dichloroethane	10.00	9.592	96	80-120	73-127	
1,2-Dichloroethane	10.00	8.301	83	80-120	73-127	
1,1-Dichloroethene	10.00	9.721	97	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.28	103	80-120	73-127	
t-1,2-Dichloroethene	10.00	10.03	100	80-120	73-127	
Acetonitrile	20.00	22.12	111	80-120	73-127	
1,2-Dichloropropane	10.00	10.78	108	79-115	73-121	
Acrolein	20.00	26.10	130	80-120	73-127	X
Acrylonitrile	10.00	9.746	97	80-120	73-127	
1,3-Dichloropropane	10.00	10.11	101	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 12 of 14

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
2,2-Dichloropropane	10.00	9.380	94	80-120	73-127	
Allyl Chloride	10.00	11.02	110	80-120	73-127	
1,1-Dichloropropene	10.00	10.15	102	80-120	73-127	
c-1,3-Dichloropropene	10.00	9.940	99	80-120	73-127	
t-1,3-Dichloropropene	10.00	7.993	80	80-120	73-127	
Ethylbenzene	10.00	10.79	108	80-120	73-127	
2-Hexanone	10.00	13.26	133	80-120	73-127	X
Isopropylbenzene	10.00	11.26	113	80-120	73-127	
p-Isopropyltoluene	10.00	9.988	100	80-120	73-127	
Methylene Chloride	10.00	10.22	102	80-120	73-127	
4-Methyl-2-Pentanone	10.00	9.529	95	80-120	73-127	
Naphthalene	10.00	10.10	101	80-120	73-127	
n-Propylbenzene	10.00	11.22	112	80-120	73-127	
Styrene	10.00	10.88	109	80-120	73-127	
Chloroprene	10.00	9.304	93	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	9.475	95	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	10.25	103	80-120	73-127	
Tetrachloroethene	10.00	9.324	93	80-120	73-127	
Toluene	10.00	10.25	103	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	10.31	103	80-120	73-127	
Ethyl Methacrylate	10.00	8.609	86	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	9.997	100	80-120	73-127	
1,1,1-Trichloroethane	10.00	8.913	89	80-120	73-127	
Hexachloro-1,3-Butadiene	10.00	9.690	97	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	9.399	94	80-120	73-127	
1,1,2-Trichloroethane	10.00	10.33	103	80-120	73-127	
Iodomethane	20.00	16.11	81	80-120	73-127	
Trichloroethene	10.00	9.828	98	79-127	71-135	
Trichlorofluoromethane	10.00	9.201	92	80-120	73-127	
Isobutyl Alcohol	20.00	20.07	100	80-120	73-127	
1,2,3-Trichloropropane	10.00	8.680	87	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.65	106	80-120	73-127	
Methacrylonitrile	10.00	9.482	95	80-120	73-127	
Methyl Methacrylate	10.00	9.868	99	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	11.22	112	80-120	73-127	
Vinyl Acetate	10.00	9.633	96	80-120	73-127	
Vinyl Chloride	10.00	11.32	113	72-132	62-142	
p/m-Xylene	20.00	22.47	112	80-120	73-127	
o-Xylene	10.00	11.37	114	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	8.427	84	69-123	60-132	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 13 of 14

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
t-1,4-Dichloro-2-Butene	10.00	6.196	62	80-120	73-127	X
Tetrahydrofuran	10.00	9.274	93	80-120	73-127	
Propionitrile	10.00	10.11	101	80-120	73-127	
Tert-Butyl Alcohol (TBA)	50.00	49.67	99	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	9.969	100	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	8.841	88	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	8.877	89	70-120	62-128	
Ethanol	100.0	139.9	140	28-160	6-182	

Total number of LCS compounds: 86
Total number of ME compounds: 0
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/16/14
3995 Via Oro Ave		Work Order:	14-09-1264
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 14 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-78	**LCS**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 11:38**	**140920L012**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.876	99	68-120	
Dibromofluoromethane	10.00	9.503	95	80-127	
1,2-Dichloroethane-d4	10.00	8.414	84	80-128	
Toluene-d8	10.00	10.10	101	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-1264

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0 (M) pCBSA	N/A	650	IC 8	1
EPA 8260B	EPA 5030C	316	GC/MS L	2

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Glossary of Terms and Qualifiers

Work Order: 14-09-1264 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AECOM

Chain-of-Custody Record

14-09-1264

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00016
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL16
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature: RBM

Lab Job:
Ship Date: 9/16/2014
Page: 1 of 2

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
01	TB-20140916	9/16/2014	0730	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
~~01~~	~~TB-20140916~~	~~9/15/2014~~		~~W~~	~~125 mL P~~	~~≤6° C~~	~~None~~		~~1~~		~~X~~	No sample ppm
02	EB-20140916	9/16/2014	1300	W	40 mL VOA	≤6° C	HCl pH < 2		3	X		
02	EB-20140916	9/16/2014	1300	W	125 mL P	≤6° C	None		1		X	
03	G-16-20140916	9/16/2014	1043	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
03	G-16-20140916	9/16/2014	1043	W	125 mL P	≤6° C	None		1		X	
04	LG-1-20140916	9/16/2014	1527	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
04	LG-1-20140916	9/16/2014	1527	W	125 mL P	≤6° C	None		1		X	
05	LG-100-20140916	9/16/2014	1527	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
05	LG-100-20140916	9/16/2014	1527	W	125 mL P	≤6° C	None		1		X	
06	G-15-20140916	9/16/2014	1151	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
06	G-15-20140916	9/16/2014	1151	W	125 mL P	≤6° C	None		1		X	
07	LG-2-20140916	9/16/2014	1419	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
07	LG-2-20140916	9/16/2014	1419	W	125 mL P	≤6° C	None		1		X	
08	BF-29-20140916	9/16/2014	0929	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		

Relinquished By	Date	Received By	Date	Relinquished By	Date	Received By	Date
Signature [illegible]	9/16/14	Signature [illegible]	9/16/14	Signature [illegible]	9/16/14	Signature [illegible]	9/16/14
Printed: [illegible]	Time	Printed: Alex Marquez	Time	Printed: Alex Marquez	Time	Printed: Yan Liao	Time
Company AECOM	1705	Company ECI	1705	Company ECI	1819	Company ECI	1819
Reason:				Reason:			

Comments:
Shipment summary: 10 samples, 1 cooler, 2 COC pages. TAT Type: 1 Week.

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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AECOM

Chain-of-Custody Record

1264

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00016
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL16
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature: KBM

Lab Job:
Ship Date: 9/16/2014
Page: 2 of 2

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	pCBSA (Mod. 314.0)	VOCs + FO (8260B)	Remarks
08	BF-29-20140916	9/16/2014	0929	W	125 mL P	≤6° C	None		1	X		
09	BF-12-20140916	9/16/2014	0824	W	40 mL VOA	≤6° C	HCl pH < 2		4		X	
09	BF-12-20140916	9/16/2014	0824	W	125 mL P	≤6° C	None		1	X		
10	BF-1200-20140916	9/16/2014	0824	W	40 mL VOA	≤6° C	HCl pH < 2		4		X	
10	BF-1200-20140916	9/16/2014	0824	W	125 mL P	≤6° C	None		1	X		

Relinquished By	Date	Received By	Date	Relinquished By	Date	Received By	Date
Signature: [signature]	9/16/14	Signature: [signature]	9/16/14	Signature: [signature]	9/16/14	Signature: [signature]	9/16/14
Printed: Natasha Domoto	Time: 1735	Printed: Alex Marquez	Time: 1735	Printed: Alex Marquez	Time: 1819	Printed: Yan Liao	Time: 1819
Company: AECOM		Company: ECI		Company: ECI		Company: ECI	
Reason:				Reason:			

Comments:
Shipment summary: 10 samples, 1 cooler, 2 COC pages. TAT Type: 1 Week.

Relinquished By	Date	Received By	Date
Signature:		Signature:	
Printed:	Time	Printed:	Time
Company:		Company:	
Reason:			

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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WORK ORDER #: 14-09-1264

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AECOM

DATE: 09/16/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.9 °C - 0.3 °C (CF) = 2.6 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 678

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: 678

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 862

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☑125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 140908A **Labeled/Checked by:** 862

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 657

Preservative: h: HCL n: HNO_3 na_2: $Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** 657

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WORK ORDER NUMBER: 14-09-1462

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AECOM

Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02

Attention: Katherine Green
3995 Via Oro Ave
Long Beach, CA 90810-1869

Vikas Patel

Approved for release on 09/25/2014 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02
Work Order Number: 14-09-1462

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Work Order Narrative

Work Order: 14-09-1462 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/18/14. They were assigned to Work Order 14-09-1462.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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QC Association Summary

Work Order: 14-09-1462

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
TB-20140918	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140920S006	140920L012
EB-20140918	EPA 314.0 (M) pCBSA		N/A	IC 8	140919S01	140919L01
EB-20140918	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140920S006	140920L012
LW-6-20140918	EPA 314.0 (M) pCBSA		N/A	IC 8	140919S01	140919L01
LW-6-20140918	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140920S006	140920L012

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-1462
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/18/14
Attn:	Katherine Green		Page 1 of 1

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
EB-20140918 (14-09-1462-2)						
Chloroform	0.28	J	0.22*	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140918	**14-09-1462-2-F**	**09/18/14 15:30**	**Aqueous**	**IC 8**	**N/A**	**09/19/14 13:20**	**140919L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

LW-6-20140918	**14-09-1462-3-E**	**09/18/14 14:50**	**Aqueous**	**IC 8**	**N/A**	**09/19/14 13:39**	**140919L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

Method Blank	**099-15-080-46**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/19/14 12:39**	**140919L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-20140918	**14-09-1462-1-A**	**09/18/14 15:35**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 13:14**	**140920L012**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 12

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/18/14
3995 Via Oro Ave	Work Order:	14-09-1462
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 3 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	85	68-120	
Dibromofluoromethane	94	80-127	
1,2-Dichloroethane-d4	82	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140918	**14-09-1462-2-A**	**09/18/14 15:30**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 13:43**	**140920L012**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	0.28	0.50	0.22	1.00	J
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 12

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/18/14
3995 Via Oro Ave	Work Order:	14-09-1462
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 6 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	86	68-120	
Dibromofluoromethane	103	80-127	
1,2-Dichloroethane-d4	91	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
LW-6-20140918	**14-09-1462-3-A**	**09/18/14 14:50**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 14:11**	**140920L012**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 12

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/18/14
3995 Via Oro Ave	Work Order:	14-09-1462
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 9 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	85	68-120	
Dibromofluoromethane	102	80-127	
1,2-Dichloroethane-d4	91	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-78**	**N/A**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 12:46**	**140920L012**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 12

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/18/14
3995 Via Oro Ave	Work Order:	14-09-1462
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 12 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	91	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
LW-6-20140918	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/19/14 13:39**	**140919S01**
LW-6-20140918	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/19/14 14:11**	**140919S01**
LW-6-20140918	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/19/14 14:31**	**140919S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	25.00	21.08	84	20.36	81	70-130	3	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
LW-6-20140918	**Sample**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 14:11**	**140920S006**
LW-6-20140918	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 14:40**	**140920S006**
LW-6-20140918	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 15:08**	**140920S006**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	9.481	95	9.854	99	80-120	4	0-20	
Benzene	ND	10.00	10.29	103	10.06	101	76-124	2	0-20	
Bromobenzene	ND	10.00	9.811	98	9.445	94	80-120	4	0-20	
Bromochloromethane	ND	10.00	9.830	98	10.06	101	80-120	2	0-20	
Bromodichloromethane	ND	10.00	9.387	94	9.384	94	80-120	0	0-20	
Bromoform	ND	10.00	9.036	90	9.412	94	80-120	4	0-20	
Bromomethane	ND	10.00	8.436	84	8.471	85	80-120	0	0-20	
2-Butanone	ND	10.00	9.386	94	9.221	92	80-120	2	0-20	
n-Butylbenzene	ND	10.00	11.12	111	10.76	108	80-120	3	0-25	
sec-Butylbenzene	ND	10.00	11.11	111	10.69	107	80-120	4	0-20	
tert-Butylbenzene	ND	10.00	10.91	109	10.43	104	80-120	4	0-20	
Carbon Disulfide	ND	10.00	8.813	88	8.758	88	80-120	1	0-20	
Carbon Tetrachloride	ND	10.00	8.156	82	8.343	83	74-134	2	0-20	
Chlorobenzene	ND	10.00	10.74	107	10.33	103	80-120	4	0-20	
Chloroethane	ND	10.00	10.60	106	11.09	111	80-120	4	0-20	
Chloroform	ND	10.00	8.987	90	9.066	91	80-120	1	0-20	
Chloromethane	ND	10.00	9.900	99	10.40	104	80-120	5	0-20	
2-Chlorotoluene	ND	10.00	10.85	108	10.42	104	80-120	4	0-20	
4-Chlorotoluene	ND	10.00	10.29	103	10.04	100	80-120	2	0-20	
Dibromochloromethane	ND	10.00	9.291	93	9.425	94	80-120	1	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	8.245	82	8.435	84	80-120	2	0-20	
1,2-Dibromoethane	ND	10.00	9.434	94	9.496	95	80-120	1	0-20	
Dibromomethane	ND	10.00	9.464	95	9.097	91	80-120	4	0-20	
1,2-Dichlorobenzene	ND	10.00	10.49	105	10.29	103	80-120	2	0-20	
1,3-Dichlorobenzene	ND	10.00	10.37	104	10.23	102	80-120	1	0-20	
1,4-Dichlorobenzene	ND	10.00	9.904	99	9.560	96	80-120	4	0-20	
Dichlorodifluoromethane	ND	10.00	9.271	93	10.09	101	80-120	8	0-20	
1,1-Dichloroethane	ND	10.00	9.231	92	9.329	93	80-120	1	0-20	
1,2-Dichloroethane	ND	10.00	8.441	84	8.268	83	80-120	2	0-20	
1,1-Dichloroethene	ND	10.00	9.240	92	9.263	93	73-127	0	0-20	
c-1,2-Dichloroethene	ND	10.00	9.879	99	10.16	102	80-120	3	0-20	
t-1,2-Dichloroethene	ND	10.00	9.493	95	9.580	96	80-120	1	0-20	
1,2-Dichloropropane	ND	10.00	10.66	107	10.25	102	80-120	4	0-25	
1,3-Dichloropropane	ND	10.00	10.03	100	9.866	99	80-120	2	0-20	
2,2-Dichloropropane	ND	10.00	8.528	85	8.437	84	80-120	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 4

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	9.645	96	9.564	96	80-120	1	0-20	
c-1,3-Dichloropropene	ND	10.00	9.607	96	9.690	97	80-120	1	0-20	
t-1,3-Dichloropropene	ND	10.00	7.722	77	7.800	78	80-120	1	0-20	3
Ethylbenzene	ND	10.00	10.47	105	10.01	100	78-126	5	0-20	
2-Hexanone	ND	10.00	8.900	89	9.332	93	80-120	5	0-20	
Isopropylbenzene	ND	10.00	11.01	110	10.53	105	80-120	4	0-20	
p-Isopropyltoluene	ND	10.00	9.737	97	9.358	94	80-120	4	0-20	
Methylene Chloride	ND	10.00	9.830	98	10.02	100	80-120	2	0-20	
4-Methyl-2-Pentanone	ND	10.00	8.930	89	9.715	97	80-120	8	0-20	
Naphthalene	ND	10.00	10.40	104	10.72	107	80-120	3	0-20	
n-Propylbenzene	ND	10.00	10.96	110	10.35	104	80-120	6	0-20	
Styrene	ND	10.00	10.70	107	10.40	104	80-120	3	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	9.271	93	9.234	92	80-120	0	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.32	103	10.24	102	80-120	1	0-20	
Tetrachloroethene	ND	10.00	8.595	86	7.837	78	80-120	9	0-20	3
Toluene	ND	10.00	10.07	101	9.694	97	80-120	4	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.30	103	10.26	103	80-120	0	0-20	
1,2,4-Trichlorobenzene	ND	10.00	9.993	100	10.04	100	80-120	0	0-20	
1,1,1-Trichloroethane	ND	10.00	8.211	82	8.357	84	80-120	2	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	8.883	89	8.698	87	80-120	2	0-20	
1,1,2-Trichloroethane	ND	10.00	10.47	105	10.07	101	80-120	4	0-20	
Trichloroethene	ND	10.00	9.277	93	9.096	91	77-120	2	0-20	
Trichlorofluoromethane	ND	10.00	8.306	83	8.714	87	80-120	5	0-20	
1,2,3-Trichloropropane	ND	10.00	8.459	85	8.884	89	80-120	5	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.49	105	10.20	102	80-120	3	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.91	109	10.55	105	80-120	3	0-20	
Vinyl Acetate	ND	10.00	9.400	94	9.787	98	80-120	4	0-20	
Vinyl Chloride	ND	10.00	10.43	104	11.52	115	72-126	10	0-20	
p/m-Xylene	ND	20.00	21.87	109	20.99	105	80-120	4	0-20	
o-Xylene	ND	10.00	11.16	112	10.79	108	80-120	3	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	8.120	81	8.566	86	67-121	5	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	51.38	103	53.21	106	36-162	4	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	9.675	97	10.01	100	60-138	3	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	8.554	86	8.841	88	69-123	3	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	8.813	88	8.894	89	65-120	1	0-20	
Ethanol	ND	100.0	128.9	129	139.3	139	30-180	8	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
LW-6-20140918	**Sample**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 14:11**	**140920S006**
LW-6-20140918	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 14:40**	**140920S006**
LW-6-20140918	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 15:08**	**140920S006**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.957	100	9.778	98	68-120	
Dibromofluoromethane	10.00	9.538	95	9.565	96	80-127	
1,2-Dichloroethane-d4	10.00	8.469	85	8.576	86	80-128	
Toluene-d8	10.00	10.26	103	10.13	101	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-46	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/19/14 12:58**	**140919L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	22.48	90	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-78	**LCS**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 11:38**	**140920L012**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	20.23	202	80-120	73-127	X
Benzene	10.00	10.59	106	80-120	73-127	
Bromobenzene	10.00	10.01	100	80-120	73-127	
Bromochloromethane	10.00	9.682	97	80-120	73-127	
Bromodichloromethane	10.00	9.756	98	80-120	73-127	
Bromoform	10.00	9.333	93	80-120	73-127	
Bromomethane	10.00	10.11	101	80-120	73-127	
2-Butanone	10.00	14.29	143	80-120	73-127	X
n-Butylbenzene	10.00	11.31	113	77-123	69-131	
sec-Butylbenzene	10.00	11.48	115	80-120	73-127	
tert-Butylbenzene	10.00	11.09	111	80-120	73-127	
Carbon Disulfide	10.00	8.916	89	80-120	73-127	
Carbon Tetrachloride	10.00	9.015	90	74-134	64-144	
Chlorobenzene	10.00	10.69	107	80-120	73-127	
Chloroethane	10.00	10.11	101	80-120	73-127	
Chloroform	10.00	9.226	92	80-120	73-127	
Chloromethane	10.00	11.86	119	80-120	73-127	
2-Chlorotoluene	10.00	11.12	111	80-120	73-127	
4-Chlorotoluene	10.00	10.60	106	80-120	73-127	
Dibromochloromethane	10.00	9.746	97	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	8.095	81	80-120	73-127	
1,2-Dibromoethane	10.00	9.564	96	79-121	72-128	
Dibromomethane	10.00	9.420	94	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.52	105	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.59	106	80-120	73-127	
1,4-Dichlorobenzene	10.00	9.961	100	80-120	73-127	
Dichlorodifluoromethane	10.00	10.19	102	80-120	73-127	
1,1-Dichloroethane	10.00	9.592	96	80-120	73-127	
1,2-Dichloroethane	10.00	8.301	83	80-120	73-127	
1,1-Dichloroethene	10.00	9.721	97	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.28	103	80-120	73-127	
t-1,2-Dichloroethene	10.00	10.03	100	80-120	73-127	
1,2-Dichloropropane	10.00	10.78	108	79-115	73-121	
1,3-Dichloropropane	10.00	10.11	101	80-120	73-127	
2,2-Dichloropropane	10.00	9.380	94	80-120	73-127	
1,1-Dichloropropene	10.00	10.15	102	80-120	73-127	
c-1,3-Dichloropropene	10.00	9.940	99	80-120	73-127	
t-1,3-Dichloropropene	10.00	7.993	80	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 4

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	10.79	108	80-120	73-127	
2-Hexanone	10.00	13.26	133	80-120	73-127	X
Isopropylbenzene	10.00	11.26	113	80-120	73-127	
p-Isopropyltoluene	10.00	9.988	100	80-120	73-127	
Methylene Chloride	10.00	10.22	102	80-120	73-127	
4-Methyl-2-Pentanone	10.00	9.529	95	80-120	73-127	
Naphthalene	10.00	10.10	101	80-120	73-127	
n-Propylbenzene	10.00	11.22	112	80-120	73-127	
Styrene	10.00	10.88	109	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	9.475	95	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	10.25	103	80-120	73-127	
Tetrachloroethene	10.00	9.324	93	80-120	73-127	
Toluene	10.00	10.25	103	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	10.31	103	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	9.997	100	80-120	73-127	
1,1,1-Trichloroethane	10.00	8.913	89	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	9.399	94	80-120	73-127	
1,1,2-Trichloroethane	10.00	10.33	103	80-120	73-127	
Trichloroethene	10.00	9.828	98	79-127	71-135	
Trichlorofluoromethane	10.00	9.201	92	80-120	73-127	
1,2,3-Trichloropropane	10.00	8.680	87	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.65	106	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	11.22	112	80-120	73-127	
Vinyl Acetate	10.00	9.633	96	80-120	73-127	
Vinyl Chloride	10.00	11.32	113	72-132	62-142	
p/m-Xylene	20.00	22.47	112	80-120	73-127	
o-Xylene	10.00	11.37	114	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	8.427	84	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	49.67	99	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	9.969	100	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	8.841	88	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	8.877	89	70-120	62-128	
Ethanol	100.0	139.9	140	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 0
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/18/14
3995 Via Oro Ave		Work Order:	14-09-1462
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-78	**LCS**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 11:38**	**140920L012**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.876	99	68-120	
Dibromofluoromethane	10.00	9.503	95	80-127	
1,2-Dichloroethane-d4	10.00	8.414	84	80-128	
Toluene-d8	10.00	10.10	101	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 14-09-1462 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AECOM

Chain-of-Custody Record

14-09-1462

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00017
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL17
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/18/2014
Page: 1 of 1

	Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)	Remarks
1	01	TB-20140918	9/18/2014	15:35	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
2	02	EB-20140918	9/18/2014	15:30	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
	02	EB-20140918	9/18/2014	15:30	W	125 mL P	≤6° C	None		1		X	
	~~03~~	~~LW-4-20140918~~	~~9/18/2014~~		~~W~~	~~40 mL VOA~~	~~≤6° C~~	~~HCl pH < 2~~		~~4~~	~~X~~		
	~~03~~	~~LW-4-20140918~~	~~9/18/2014~~		~~W~~	~~125 mL P~~	~~≤6° C~~	~~None~~		~~1~~		~~X~~	
3	04	LW-6-20140918	9/18/2014	14:50	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
	04	LW-6-20140918	9/18/2014	14:50	W	125 mL P	≤6° C	None		1		X	
	~~LW-6-20140918~~		~~9/18/2014~~		~~W~~	~~40mL VOA~~	~~≤6° C~~	~~HCl pH<2~~		~~4~~	~~X~~		

Analyses Requested

Relinquished By	Date	Received By	Date	Relinquished By	Date	Received By	Date
Signature [signature]	9-18-14	Signature Alex Marquez	9/18/14	Signature Alex Marquez	9/18/14	Signature Dannyle	9/18/14
Printed:	Time	Printed: ALEX MARQUEZ	Time	Printed: ALEX MARQUEZ	Time	Printed: DANNY LE	Time
Company AECOM	16:25	Company ECL	1625	Company ECL	1730	Company GCL	17:30
Reason:				Reason:			

Comments:
Shipment summary: 4 samples, 1 cooler, 1 COC page. TAT Type: 1 Week.

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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WORK ORDER #: 14-09-1462

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AECOM

DATE: 09/18/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.8 °C - 0.3 °C (CF) = 2.5 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 678

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: 678

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 802

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☑125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 140908A **Labeled/Checked by:** 802

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 776

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 776

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WORK ORDER NUMBER: 14-09-1606

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AECOM

Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02

Attention: Brian Dean
3995 Via Oro Ave
Long Beach, CA 90810-1869

Vikas Patel

Approved for release on 09/29/2014 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02
Work Order Number: 14-09-1606

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Work Order Narrative

Work Order: 14-09-1606 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/19/14. They were assigned to Work Order 14-09-1606.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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QC Association Summary

Work Order: 14-09-1606

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
EB-20140919	EPA 314.0 (M) pCBSA		N/A	IC 8	140922S01	140922L01
EB-20140919	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140920S006	140920L012
TB-20140919	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140920S006	140920L012
LW-4-20140919	EPA 314.0 (M) pCBSA		N/A	IC 8	140922S01	140922L01
LW-4-20140919	EPA 314.0 (M) pCBSA	R	N/A	IC 8	140922S01	140922L01
LW-4-20140919	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	140920S006	140920L012

R = Rerun

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	14-09-1606
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	09/19/14
Attn:	Brian Dean		Page 1 of 1

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
EB-20140919 (14-09-1606-1)						
Acetone	3.7	J	3.5*	ug/L	EPA 8260B	EPA 5030C
Toluene	0.43	J	0.26*	ug/L	EPA 8260B	EPA 5030C
LW-4-20140919 (14-09-1606-3)						
p-Chlorobenzenesulfonic Acid	920	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	780		100	ug/L	EPA 314.0 (M) pCBSA	N/A
Chlorobenzene	4.4		0.50	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140919	**14-09-1606-1-E**	**09/19/14 10:15**	**Aqueous**	**IC 8**	**N/A**	**09/22/14 14:14**	**140922L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

LW-4-20140919	**14-09-1606-3-E**	**09/19/14 11:55**	**Aqueous**	**IC 8**	**N/A**	**09/22/14 14:33**	**140922L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	920	5.0	0.46	1.00	E

LW-4-20140919	**14-09-1606-3-E**	**09/19/14 11:55**	**Aqueous**	**IC 8**	**N/A**	**09/22/14 14:56**	**140922L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	780	100	9.2	20.0	

Method Blank	**099-15-080-47**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**09/22/14 13:31**	**140922L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20140919	**14-09-1606-1-A**	**09/19/14 10:15**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 18:56**	**140920L012**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	3.7	10	3.5	1.00	J
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 12

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	0.43	0.50	0.26	1.00	J
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/19/14
3995 Via Oro Ave	Work Order:	14-09-1606
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 3 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	86	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	88	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-20140919	**14-09-1606-2-A**	**09/19/14 10:45**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 19:24**	**140920L012**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 12

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/19/14
3995 Via Oro Ave	Work Order:	14-09-1606
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 6 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	86	68-120	
Dibromofluoromethane	94	80-127	
1,2-Dichloroethane-d4	88	80-128	
Toluene-d8	103	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
LW-4-20140919	**14-09-1606-3-A**	**09/19/14 11:55**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 19:52**	**140920L012**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	4.4	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 12

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/19/14
3995 Via Oro Ave	Work Order:	14-09-1606
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 9 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	86	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	91	80-128	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-78**	**N/A**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 12:46**	**140920L012**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 11 of 12

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	09/19/14
3995 Via Oro Ave	Work Order:	14-09-1606
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 12 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	68-120	
Dibromofluoromethane	99	80-127	
1,2-Dichloroethane-d4	91	80-128	
Toluene-d8	102	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
LW-4-20140919	**Sample**	**Aqueous**	**IC 8**	**N/A**	**09/22/14 14:56**	**140922S01**
LW-4-20140919	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**09/22/14 15:15**	**140922S01**
LW-4-20140919	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**09/22/14 15:35**	**140922S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	777.5	500.0	1310	106	1288	102	70-130	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-1462-3	**Sample**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 14:11**	**140920S006**
14-09-1462-3	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 14:40**	**140920S006**
14-09-1462-3	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 15:08**	**140920S006**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	9.481	95	9.854	99	80-120	4	0-20	
Benzene	ND	10.00	10.29	103	10.06	101	76-124	2	0-20	
Bromobenzene	ND	10.00	9.811	98	9.445	94	80-120	4	0-20	
Bromochloromethane	ND	10.00	9.830	98	10.06	101	80-120	2	0-20	
Bromodichloromethane	ND	10.00	9.387	94	9.384	94	80-120	0	0-20	
Bromoform	ND	10.00	9.036	90	9.412	94	80-120	4	0-20	
Bromomethane	ND	10.00	8.436	84	8.471	85	80-120	0	0-20	
2-Butanone	ND	10.00	9.386	94	9.221	92	80-120	2	0-20	
n-Butylbenzene	ND	10.00	11.12	111	10.76	108	80-120	3	0-25	
sec-Butylbenzene	ND	10.00	11.11	111	10.69	107	80-120	4	0-20	
tert-Butylbenzene	ND	10.00	10.91	109	10.43	104	80-120	4	0-20	
Carbon Disulfide	ND	10.00	8.813	88	8.758	88	80-120	1	0-20	
Carbon Tetrachloride	ND	10.00	8.156	82	8.343	83	74-134	2	0-20	
Chlorobenzene	ND	10.00	10.74	107	10.33	103	80-120	4	0-20	
Chloroethane	ND	10.00	10.60	106	11.09	111	80-120	4	0-20	
Chloroform	ND	10.00	8.987	90	9.066	91	80-120	1	0-20	
Chloromethane	ND	10.00	9.900	99	10.40	104	80-120	5	0-20	
2-Chlorotoluene	ND	10.00	10.85	108	10.42	104	80-120	4	0-20	
4-Chlorotoluene	ND	10.00	10.29	103	10.04	100	80-120	2	0-20	
Dibromochloromethane	ND	10.00	9.291	93	9.425	94	80-120	1	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	8.245	82	8.435	84	80-120	2	0-20	
1,2-Dibromoethane	ND	10.00	9.434	94	9.496	95	80-120	1	0-20	
Dibromomethane	ND	10.00	9.464	95	9.097	91	80-120	4	0-20	
1,2-Dichlorobenzene	ND	10.00	10.49	105	10.29	103	80-120	2	0-20	
1,3-Dichlorobenzene	ND	10.00	10.37	104	10.23	102	80-120	1	0-20	
1,4-Dichlorobenzene	ND	10.00	9.904	99	9.560	96	80-120	4	0-20	
Dichlorodifluoromethane	ND	10.00	9.271	93	10.09	101	80-120	8	0-20	
1,1-Dichloroethane	ND	10.00	9.231	92	9.329	93	80-120	1	0-20	
1,2-Dichloroethane	ND	10.00	8.441	84	8.268	83	80-120	2	0-20	
1,1-Dichloroethene	ND	10.00	9.240	92	9.263	93	73-127	0	0-20	
c-1,2-Dichloroethene	ND	10.00	9.879	99	10.16	102	80-120	3	0-20	
t-1,2-Dichloroethene	ND	10.00	9.493	95	9.580	96	80-120	1	0-20	
1,2-Dichloropropane	ND	10.00	10.66	107	10.25	102	80-120	4	0-25	
1,3-Dichloropropane	ND	10.00	10.03	100	9.866	99	80-120	2	0-20	
2,2-Dichloropropane	ND	10.00	8.528	85	8.437	84	80-120	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 4

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	9.645	96	9.564	96	80-120	1	0-20	
c-1,3-Dichloropropene	ND	10.00	9.607	96	9.690	97	80-120	1	0-20	
t-1,3-Dichloropropene	ND	10.00	7.722	77	7.800	78	80-120	1	0-20	3
Ethylbenzene	ND	10.00	10.47	105	10.01	100	78-126	5	0-20	
2-Hexanone	ND	10.00	8.900	89	9.332	93	80-120	5	0-20	
Isopropylbenzene	ND	10.00	11.01	110	10.53	105	80-120	4	0-20	
p-Isopropyltoluene	ND	10.00	9.737	97	9.358	94	80-120	4	0-20	
Methylene Chloride	ND	10.00	9.830	98	10.02	100	80-120	2	0-20	
4-Methyl-2-Pentanone	ND	10.00	8.930	89	9.715	97	80-120	8	0-20	
Naphthalene	ND	10.00	10.40	104	10.72	107	80-120	3	0-20	
n-Propylbenzene	ND	10.00	10.96	110	10.35	104	80-120	6	0-20	
Styrene	ND	10.00	10.70	107	10.40	104	80-120	3	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	9.271	93	9.234	92	80-120	0	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.32	103	10.24	102	80-120	1	0-20	
Tetrachloroethene	ND	10.00	8.595	86	7.837	78	80-120	9	0-20	3
Toluene	ND	10.00	10.07	101	9.694	97	80-120	4	0-20	
1,2,3-Trichlorobenzene	ND	10.00	10.30	103	10.26	103	80-120	0	0-20	
1,2,4-Trichlorobenzene	ND	10.00	9.993	100	10.04	100	80-120	0	0-20	
1,1,1-Trichloroethane	ND	10.00	8.211	82	8.357	84	80-120	2	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	8.883	89	8.698	87	80-120	2	0-20	
1,1,2-Trichloroethane	ND	10.00	10.47	105	10.07	101	80-120	4	0-20	
Trichloroethene	ND	10.00	9.277	93	9.096	91	77-120	2	0-20	
Trichlorofluoromethane	ND	10.00	8.306	83	8.714	87	80-120	5	0-20	
1,2,3-Trichloropropane	ND	10.00	8.459	85	8.884	89	80-120	5	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.49	105	10.20	102	80-120	3	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.91	109	10.55	105	80-120	3	0-20	
Vinyl Acetate	ND	10.00	9.400	94	9.787	98	80-120	4	0-20	
Vinyl Chloride	ND	10.00	10.43	104	11.52	115	72-126	10	0-20	
p/m-Xylene	ND	20.00	21.87	109	20.99	105	80-120	4	0-20	
o-Xylene	ND	10.00	11.16	112	10.79	108	80-120	3	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	8.120	81	8.566	86	67-121	5	0-49	
Tert-Butyl Alcohol (TBA)	ND	50.00	51.38	103	53.21	106	36-162	4	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	9.675	97	10.01	100	60-138	3	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	8.554	86	8.841	88	69-123	3	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	8.813	88	8.894	89	65-120	1	0-20	
Ethanol	ND	100.0	128.9	129	139.3	139	30-180	8	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-09-1462-3	**Sample**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 14:11**	**140920S006**
14-09-1462-3	**Matrix Spike**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 14:40**	**140920S006**
14-09-1462-3	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 15:08**	**140920S006**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.957	100	9.778	98	68-120	
Dibromofluoromethane	10.00	9.538	95	9.565	96	80-127	
1,2-Dichloroethane-d4	10.00	8.469	85	8.576	86	80-128	
Toluene-d8	10.00	10.26	103	10.13	101	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-47	**LCS**	**Aqueous**	**IC 8**	**N/A**	**09/22/14 13:51**	**140922L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	25.52	102	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-78	**LCS**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 11:38**	**140920L012**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	20.23	202	80-120	73-127	X
Benzene	10.00	10.59	106	80-120	73-127	
Bromobenzene	10.00	10.01	100	80-120	73-127	
Bromochloromethane	10.00	9.682	97	80-120	73-127	
Bromodichloromethane	10.00	9.756	98	80-120	73-127	
Bromoform	10.00	9.333	93	80-120	73-127	
Bromomethane	10.00	10.11	101	80-120	73-127	
2-Butanone	10.00	14.29	143	80-120	73-127	X
n-Butylbenzene	10.00	11.31	113	77-123	69-131	
sec-Butylbenzene	10.00	11.48	115	80-120	73-127	
tert-Butylbenzene	10.00	11.09	111	80-120	73-127	
Carbon Disulfide	10.00	8.916	89	80-120	73-127	
Carbon Tetrachloride	10.00	9.015	90	74-134	64-144	
Chlorobenzene	10.00	10.69	107	80-120	73-127	
Chloroethane	10.00	10.11	101	80-120	73-127	
Chloroform	10.00	9.226	92	80-120	73-127	
Chloromethane	10.00	11.86	119	80-120	73-127	
2-Chlorotoluene	10.00	11.12	111	80-120	73-127	
4-Chlorotoluene	10.00	10.60	106	80-120	73-127	
Dibromochloromethane	10.00	9.746	97	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	8.095	81	80-120	73-127	
1,2-Dibromoethane	10.00	9.564	96	79-121	72-128	
Dibromomethane	10.00	9.420	94	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.52	105	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.59	106	80-120	73-127	
1,4-Dichlorobenzene	10.00	9.961	100	80-120	73-127	
Dichlorodifluoromethane	10.00	10.19	102	80-120	73-127	
1,1-Dichloroethane	10.00	9.592	96	80-120	73-127	
1,2-Dichloroethane	10.00	8.301	83	80-120	73-127	
1,1-Dichloroethene	10.00	9.721	97	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.28	103	80-120	73-127	
t-1,2-Dichloroethene	10.00	10.03	100	80-120	73-127	
1,2-Dichloropropane	10.00	10.78	108	79-115	73-121	
1,3-Dichloropropane	10.00	10.11	101	80-120	73-127	
2,2-Dichloropropane	10.00	9.380	94	80-120	73-127	
1,1-Dichloropropene	10.00	10.15	102	80-120	73-127	
c-1,3-Dichloropropene	10.00	9.940	99	80-120	73-127	
t-1,3-Dichloropropene	10.00	7.993	80	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 4

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	10.79	108	80-120	73-127	
2-Hexanone	10.00	13.26	133	80-120	73-127	X
Isopropylbenzene	10.00	11.26	113	80-120	73-127	
p-Isopropyltoluene	10.00	9.988	100	80-120	73-127	
Methylene Chloride	10.00	10.22	102	80-120	73-127	
4-Methyl-2-Pentanone	10.00	9.529	95	80-120	73-127	
Naphthalene	10.00	10.10	101	80-120	73-127	
n-Propylbenzene	10.00	11.22	112	80-120	73-127	
Styrene	10.00	10.88	109	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	9.475	95	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	10.25	103	80-120	73-127	
Tetrachloroethene	10.00	9.324	93	80-120	73-127	
Toluene	10.00	10.25	103	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	10.31	103	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	9.997	100	80-120	73-127	
1,1,1-Trichloroethane	10.00	8.913	89	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	9.399	94	80-120	73-127	
1,1,2-Trichloroethane	10.00	10.33	103	80-120	73-127	
Trichloroethene	10.00	9.828	98	79-127	71-135	
Trichlorofluoromethane	10.00	9.201	92	80-120	73-127	
1,2,3-Trichloropropane	10.00	8.680	87	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.65	106	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	11.22	112	80-120	73-127	
Vinyl Acetate	10.00	9.633	96	80-120	73-127	
Vinyl Chloride	10.00	11.32	113	72-132	62-142	
p/m-Xylene	20.00	22.47	112	80-120	73-127	
o-Xylene	10.00	11.37	114	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	8.427	84	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	49.67	99	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	9.969	100	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	8.841	88	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	8.877	89	70-120	62-128	
Ethanol	100.0	139.9	140	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 0
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	09/19/14
3995 Via Oro Ave		Work Order:	14-09-1606
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-78	**LCS**	**Aqueous**	**GC/MS L**	**09/20/14**	**09/20/14 11:38**	**140920L012**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.876	99	68-120	
Dibromofluoromethane	10.00	9.503	95	80-127	
1,2-Dichloroethane-d4	10.00	8.414	84	80-128	
Toluene-d8	10.00	10.10	101	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-1606

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0 (M) pCBSA	N/A	921	IC 8	1
EPA 8260B	EPA 5030C	316	GC/MS L	2

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Glossary of Terms and Qualifiers

Work Order: 14-09-1606 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AECOM

Chain-of-Custody Record

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00018
Method of Shipment: Courier
Air Bill Number:
Cooler Number: BL18
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 9/19/2014
Page: 1 of 1

14-09-1606

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	Analyses Requested: VOCs + FO (8260B)	Analyses Requested: pCBSA (Mod. 314.0)	Remarks
01	EB-20140919	9/19/2014	1015	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
01	EB-20140919	9/19/2014	1015	W	125 mL P	≤6° C	None		1		X	
02	TB-20140919	9/19/2014	1045	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
03	LW-4-20140919	9/19/2014	1155	W	40 mL VOA	≤6° C	HCl pH < 2		4	X		
03	LW-4-20140919	9/19/2014	1155	W	125 mL P	≤6° C	None		1		X	

Relinquished By	Date	Received By	Date	Relinquished By	Date	Received By	Date
Signature [signature]	9/19/14	Signature [signature]	9/19/14	Signature Rudy [signature]	9/19/14	Signature Dannyle	9/19/14
Printed: Danielle Cebra	Time	Printed: RVD1 H16A	Time	Printed: RVD1 H16A	Time	Printed: DANNY LE	Time
Company AECOM	1616	Company ECI	1616	Company ECI	17:35	Company ECI	17:35
Reason:				Reason:			

Comments:
Shipment summary: 3 samples, 1 cooler, 1 COC page. TAT Type: 1 Week.

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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WORK ORDER #: 14-09-1606

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AECOM

DATE: 09/19/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.4 °C - 0.3 °C (CF) = 2.1 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 676

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: 676

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 828

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☐	☑	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOA**h** (4) ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☑250PB (1) ☐250PB**n** ☑125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 140908A **Labeled/Checked by:** 828

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 689

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 689

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WORK ORDER NUMBER: 14-09-2424

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AECOM

Client Project Name: Montrose Superfund Site

Attention: Katherine Green
3995 Via Oro Ave
Long Beach, CA 90810-1869

Vikas Patel

Approved for release on 10/07/2014 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 14-09-2424

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Work Order Narrative

Work Order: 14-09-2424 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/30/14. They were assigned to Work Order 14-09-2424.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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QC Association Summary

Work Order: 14-09-2424

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
SWL0049-20140930	EPA 314.0 (M) pCBSA		N/A	IC 8	141001S01	141001L01

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Detections Summary

Client:	AECOM	Work Order:	14-09-2424
	3995 Via Oro Ave	Project Name:	Montrose Superfund Site
	Long Beach, CA 90810-1869	Received:	09/30/14
Attn:	Katherine Green		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
SWL0049-20140930 (14-09-2424-1)						
p-Chlorobenzenesulfonic Acid	25000		2500	ug/L	EPA 314.0 (M) pCBSA	N/A

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

AECOM		Date Received:	09/30/14
3995 Via Oro Ave		Work Order:	14-09-2424
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose Superfund Site			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SWL0049-20140930	**14-09-2424-1-A**	**09/30/14 15:50**	**Aqueous**	**IC 8**	**N/A**	**10/01/14 14:41**	**141001L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	25000	2500	230	500	

Method Blank	**099-15-080-48**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**10/01/14 14:02**	**141001L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	09/30/14
3995 Via Oro Ave		Work Order:	14-09-2424
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose Superfund Site			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SWL0049-20140930	**Sample**	**Aqueous**	**IC 8**	**N/A**	**10/01/14 14:41**	**141001S01**
SWL0049-20140930	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**10/01/14 15:20**	**141001S01**
SWL0049-20140930	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**10/01/14 15:40**	**141001S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25000	12500	37600	101	37870	103	70-130	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	09/30/14
3995 Via Oro Ave		Work Order:	14-09-2424
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose Superfund Site			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-48	**LCS**	**Aqueous**	**IC 8**	**N/A**	**10/01/14 14:22**	**141001L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	23.38	94	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-09-2424

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0 (M) pCBSA	N/A	921	IC 8	1

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Glossary of Terms and Qualifiers

Work Order: 14-09-2424 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 09/30/14

PAGE: 1 OF 1

LABORATORY CLIENT: AECOM

ADDRESS: 3995 Via Oro Avenue

CITY: Long Beach STATE: Ca ZIP: 90810

TEL: 562-213-4166 FAX: E-MAIL: Katharine.CarrGreen@aecom.com

CLIENT PROJECT NAME / NUMBER: Montrose Superfund Site

P.O. NO.: 60288979.~~12.06~~ 13.02

PROJECT CONTACT: K. Carr Green

LAB CONTACT OR QUOTE NO.: Vik Patel

SAMPLER(S): (SIGNATURE)

LAB USE ONLY: 14-09-2424

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____ / ____ / ____

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Please list tests required: pCBSA 314 mod
1	SWL0049-20140930		9/30/2014	1550	W	1	X

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature] ECL	9/30/14	1630
[signature]	[signature] ECL	9/30/14	1730

06/01/10 Revision

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WORK ORDER #: 14-09-2424

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AECOM

DATE: 09/30/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.3 °C - 0.3 °C (CF) = 3.0 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 678

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: 678

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 778

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☐	☑	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☑250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 778

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 802

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 802

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WORK ORDER NUMBER: 15-01-0665

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AECOM

Client Project Name: Montrose 2014 BL GW Sampling / 60288979.13.02

Attention: Katharine Carr Green
3995 Via Oro Ave
Long Beach, CA 90810-1869

Vikas Patel

Approved for release on 01/16/2015 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 15-01-0665

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Work Order Narrative

Work Order: 15-01-0665 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 01/13/15. They were assigned to Work Order 15-01-0665.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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QC Association Summary

Work Order: 15-01-0665

Client Sample ID	Method Name	Type	Ext Name	Instrument	MS/MSD/SDP	LCS/LCSD
EB-20150113	EPA 314.0 (M) pCBSA		N/A	IC 13	150114S01	150114L01
EB-20150113	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	150114S009	150114L005
LW-4-20150113	EPA 314.0 (M) pCBSA		N/A	IC 13	150114S01	150114L01
LW-4-20150113	EPA 314.0 (M) pCBSA	R	N/A	IC 13	150114S01	150114L01
LW-4-20150113	EPA 8260B Volatile Organics		EPA 5030C	GC/MS L	150114S009	150114L005

R = Rerun

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Detections Summary

Client:	AECOM 3995 Via Oro Ave Long Beach, CA 90810-1869	Work Order:	15-01-0665
		Project Name:	Montrose 2014 BL GW Sampling / 60288979.13.02
		Received:	01/13/15
Attn:	Katharine Carr Green		Page 1 of 1

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
EB-20150113 (15-01-0665-2)						
Acetone	3.8	J	3.5*	ug/L	EPA 8260B	EPA 5030C
Chloroform	0.22	J	0.22*	ug/L	EPA 8260B	EPA 5030C
Tert-Butyl Alcohol (TBA)	8.0	J	4.1*	ug/L	EPA 8260B	EPA 5030C
LW-4-20150113 (15-01-0665-3)						
p-Chlorobenzenesulfonic Acid	130	E	5.0	ug/L	EPA 314.0 (M) pCBSA	N/A
p-Chlorobenzenesulfonic Acid	130		10	ug/L	EPA 314.0 (M) pCBSA	N/A
Acetone	7.2	J	3.5*	ug/L	EPA 8260B	EPA 5030C
Chlorobenzene	4.4		0.50	ug/L	EPA 8260B	EPA 5030C
Tert-Butyl Alcohol (TBA)	14		10	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

AECOM		Date Received:	01/13/15
3995 Via Oro Ave		Work Order:	15-01-0665
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20150113	**15-01-0665-2-E**	**01/13/15 09:10**	**Aqueous**	**IC 13**	**N/A**	**01/14/15 19:46**	**150114L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

LW-4-20150113	**15-01-0665-3-E**	**01/13/15 13:15**	**Aqueous**	**IC 13**	**N/A**	**01/14/15 20:31**	**150114L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	130	5.0	0.46	1.00	E

LW-4-20150113	**15-01-0665-3-E**	**01/13/15 13:15**	**Aqueous**	**IC 13**	**N/A**	**01/14/15 21:01**	**150114L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	130	10	0.92	2.00	

Method Blank	**099-15-080-51**	**N/A**	**Aqueous**	**IC 13**	**N/A**	**01/14/15 15:04**	**150114L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
p-Chlorobenzenesulfonic Acid	ND	5.0	0.46	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	01/13/15
3995 Via Oro Ave		Work Order:	15-01-0665
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-20150113	**15-01-0665-2-A**	**01/13/15 09:10**	**Aqueous**	**GC/MS L**	**01/14/15**	**01/14/15 13:20**	**150114L005**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	3.8	10	3.5	1.00	J
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	0.22	0.50	0.22	1.00	J
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	01/13/15
3995 Via Oro Ave		Work Order:	15-01-0665
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 9

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	8.0	10	4.1	1.00	J
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	01/13/15
3995 Via Oro Ave	Work Order:	15-01-0665
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 3 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	68-120	
Dibromofluoromethane	103	80-127	
1,2-Dichloroethane-d4	97	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	01/13/15
3995 Via Oro Ave		Work Order:	15-01-0665
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
LW-4-20150113	**15-01-0665-3-A**	**01/13/15 13:15**	**Aqueous**	**GC/MS L**	**01/14/15**	**01/14/15 13:48**	**150114L005**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	7.2	10	3.5	1.00	J
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	4.4	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	01/13/15
3995 Via Oro Ave		Work Order:	15-01-0665
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 5 of 9

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	14	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	01/13/15
3995 Via Oro Ave	Work Order:	15-01-0665
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 6 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	01/13/15
3995 Via Oro Ave		Work Order:	15-01-0665
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-234-84**	**N/A**	**Aqueous**	**GC/MS L**	**01/14/15**	**01/14/15 12:52**	**150114L005**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	10	3.5	1.00	
Benzene	ND	0.50	0.32	1.00	
Bromobenzene	ND	0.50	0.33	1.00	
Bromochloromethane	ND	1.0	0.38	1.00	
Bromodichloromethane	ND	0.50	0.20	1.00	
Bromoform	ND	0.50	0.34	1.00	
Bromomethane	ND	1.0	0.38	1.00	
2-Butanone	ND	5.0	2.9	1.00	
n-Butylbenzene	ND	0.50	0.34	1.00	
sec-Butylbenzene	ND	0.50	0.23	1.00	
tert-Butylbenzene	ND	0.50	0.38	1.00	
Carbon Disulfide	ND	1.0	0.44	1.00	
Carbon Tetrachloride	ND	0.50	0.22	1.00	
Chlorobenzene	ND	0.50	0.14	1.00	
Chloroethane	ND	0.50	0.34	1.00	
Chloroform	ND	0.50	0.22	1.00	
Chloromethane	ND	0.50	0.22	1.00	
2-Chlorotoluene	ND	0.50	0.34	1.00	
4-Chlorotoluene	ND	0.50	0.33	1.00	
Dibromochloromethane	ND	0.50	0.24	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.9	1.00	
1,2-Dibromoethane	ND	0.50	0.34	1.00	
Dibromomethane	ND	0.50	0.34	1.00	
1,2-Dichlorobenzene	ND	0.50	0.17	1.00	
1,3-Dichlorobenzene	ND	0.50	0.17	1.00	
1,4-Dichlorobenzene	ND	0.50	0.31	1.00	
Dichlorodifluoromethane	ND	1.0	0.24	1.00	
1,1-Dichloroethane	ND	0.50	0.19	1.00	
1,2-Dichloroethane	ND	0.50	0.18	1.00	
1,1-Dichloroethene	ND	0.50	0.20	1.00	
c-1,2-Dichloroethene	ND	0.50	0.24	1.00	
t-1,2-Dichloroethene	ND	0.50	0.26	1.00	
1,2-Dichloropropane	ND	0.50	0.24	1.00	
1,3-Dichloropropane	ND	1.0	0.24	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM		Date Received:	01/13/15
3995 Via Oro Ave		Work Order:	15-01-0665
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 8 of 9

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.42	1.00	
1,1-Dichloropropene	ND	0.50	0.28	1.00	
c-1,3-Dichloropropene	ND	0.50	0.18	1.00	
t-1,3-Dichloropropene	ND	0.50	0.35	1.00	
Ethylbenzene	ND	0.50	0.32	1.00	
2-Hexanone	ND	10	2.6	1.00	
Isopropylbenzene	ND	0.50	0.42	1.00	
p-Isopropyltoluene	ND	0.50	0.14	1.00	
Methylene Chloride	ND	1.0	0.38	1.00	
4-Methyl-2-Pentanone	ND	5.0	2.7	1.00	
Naphthalene	ND	1.0	0.41	1.00	
n-Propylbenzene	ND	0.50	0.38	1.00	
Styrene	ND	0.50	0.32	1.00	
1,1,1,2-Tetrachloroethane	ND	0.50	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	0.22	1.00	
Tetrachloroethene	ND	0.50	0.22	1.00	
Toluene	ND	0.50	0.26	1.00	
1,2,3-Trichlorobenzene	ND	0.50	0.25	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.25	1.00	
1,1,1-Trichloroethane	ND	0.50	0.19	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	0.26	1.00	
1,1,2-Trichloroethane	ND	0.50	0.32	1.00	
Trichloroethene	ND	0.50	0.23	1.00	
Trichlorofluoromethane	ND	0.50	0.25	1.00	
1,2,3-Trichloropropane	ND	1.0	0.25	1.00	
1,2,4-Trimethylbenzene	ND	0.50	0.15	1.00	
1,3,5-Trimethylbenzene	ND	0.50	0.33	1.00	
Vinyl Acetate	ND	5.0	2.2	1.00	
Vinyl Chloride	ND	0.50	0.27	1.00	
p/m-Xylene	ND	0.50	0.24	1.00	
o-Xylene	ND	0.50	0.39	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.29	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.1	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	0.24	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.22	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.24	1.00	
Ethanol	ND	50	17	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

AECOM	Date Received:	01/13/15
3995 Via Oro Ave	Work Order:	15-01-0665
Long Beach, CA 90810-1869	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Montrose 2014 BL GW Sampling / 60288979.13.02		Page 9 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-120	
Dibromofluoromethane	103	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	01/13/15
3995 Via Oro Ave		Work Order:	15-01-0665
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
LW-4-20150113	**Sample**	**Aqueous**	**IC 13**	**N/A**	**01/14/15 21:01**	**150114S01**
LW-4-20150113	**Matrix Spike**	**Aqueous**	**IC 13**	**N/A**	**01/14/15 21:19**	**150114S01**
LW-4-20150113	**Matrix Spike Duplicate**	**Aqueous**	**IC 13**	**N/A**	**01/14/15 21:38**	**150114S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
p-Chlorobenzenesulfonic Acid	129.5	25.00	209.4	4X	226.4	4X	70-130	4X	0-20	Q

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	01/13/15
3995 Via Oro Ave		Work Order:	15-01-0665
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
LW-4-20150113	**Sample**	**Aqueous**	**GC/MS L**	**01/14/15**	**01/14/15 13:48**	**150114S009**
LW-4-20150113	**Matrix Spike**	**Aqueous**	**GC/MS L**	**01/14/15**	**01/14/15 14:46**	**150114S009**
LW-4-20150113	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**01/14/15**	**01/14/15 15:14**	**150114S009**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	10.00	15.09	151	13.08	131	80-120	14	0-20	3
Benzene	ND	10.00	10.56	106	10.63	106	76-124	1	0-20	
Bromobenzene	ND	10.00	10.52	105	10.24	102	80-120	3	0-20	
Bromochloromethane	ND	10.00	10.00	100	11.23	112	80-120	12	0-20	
Bromodichloromethane	ND	10.00	10.06	101	10.29	103	80-120	2	0-20	
Bromoform	ND	10.00	10.64	106	10.89	109	80-120	2	0-20	
Bromomethane	ND	10.00	10.71	107	9.630	96	80-120	11	0-20	
2-Butanone	ND	10.00	10.37	104	11.17	112	80-120	7	0-20	
n-Butylbenzene	ND	10.00	11.29	113	11.15	112	80-120	1	0-25	
sec-Butylbenzene	ND	10.00	10.83	108	10.89	109	80-120	1	0-20	
tert-Butylbenzene	ND	10.00	10.93	109	11.02	110	80-120	1	0-20	
Carbon Disulfide	ND	10.00	9.860	99	9.823	98	80-120	0	0-20	
Carbon Tetrachloride	ND	10.00	10.24	102	10.80	108	74-134	5	0-20	
Chlorobenzene	4.402	10.00	14.57	102	14.72	103	80-120	1	0-20	
Chloroethane	ND	10.00	8.814	88	8.914	89	80-120	1	0-20	
Chloroform	ND	10.00	10.02	100	10.90	109	80-120	8	0-20	
Chloromethane	ND	10.00	8.598	86	8.574	86	80-120	0	0-20	
2-Chlorotoluene	ND	10.00	10.36	104	10.32	103	80-120	0	0-20	
4-Chlorotoluene	ND	10.00	10.45	105	10.59	106	80-120	1	0-20	
Dibromochloromethane	ND	10.00	9.457	95	9.666	97	80-120	2	0-20	
1,2-Dibromo-3-Chloropropane	ND	10.00	10.69	107	10.82	108	80-120	1	0-20	
1,2-Dibromoethane	ND	10.00	10.41	104	10.29	103	80-120	1	0-20	
Dibromomethane	ND	10.00	10.21	102	10.40	104	80-120	2	0-20	
1,2-Dichlorobenzene	ND	10.00	10.50	105	10.47	105	80-120	0	0-20	
1,3-Dichlorobenzene	ND	10.00	10.38	104	10.56	106	80-120	2	0-20	
1,4-Dichlorobenzene	ND	10.00	10.23	102	10.26	103	80-120	0	0-20	
Dichlorodifluoromethane	ND	10.00	9.725	97	9.002	90	80-120	8	0-20	
1,1-Dichloroethane	ND	10.00	10.15	102	10.18	102	80-120	0	0-20	
1,2-Dichloroethane	ND	10.00	10.09	101	10.15	102	80-120	1	0-20	
1,1-Dichloroethene	ND	10.00	10.25	103	9.935	99	73-127	3	0-20	
c-1,2-Dichloroethene	ND	10.00	10.27	103	10.16	102	80-120	1	0-20	
t-1,2-Dichloroethene	ND	10.00	10.24	102	9.992	100	80-120	2	0-20	
1,2-Dichloropropane	ND	10.00	10.23	102	10.21	102	80-120	0	0-25	
1,3-Dichloropropane	ND	10.00	10.61	106	10.66	107	80-120	0	0-20	
2,2-Dichloropropane	ND	10.00	10.86	109	10.59	106	80-120	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

AECOM		Date Received:	01/13/15
3995 Via Oro Ave		Work Order:	15-01-0665
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 4

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	10.00	11.15	111	11.05	111	80-120	1	0-20	
c-1,3-Dichloropropene	ND	10.00	9.326	93	9.452	95	80-120	1	0-20	
t-1,3-Dichloropropene	ND	10.00	8.664	87	8.674	87	80-120	0	0-20	
Ethylbenzene	ND	10.00	10.59	106	10.48	105	78-126	1	0-20	
2-Hexanone	ND	10.00	10.83	108	10.91	109	80-120	1	0-20	
Isopropylbenzene	ND	10.00	10.74	107	10.54	105	80-120	2	0-20	
p-Isopropyltoluene	ND	10.00	10.92	109	10.89	109	80-120	0	0-20	
Methylene Chloride	ND	10.00	9.826	98	9.797	98	80-120	0	0-20	
4-Methyl-2-Pentanone	ND	10.00	10.86	109	11.10	111	80-120	2	0-20	
Naphthalene	ND	10.00	11.50	115	11.76	118	80-120	2	0-20	
n-Propylbenzene	ND	10.00	10.37	104	10.14	101	80-120	2	0-20	
Styrene	ND	10.00	10.30	103	10.17	102	80-120	1	0-20	
1,1,1,2-Tetrachloroethane	ND	10.00	10.57	106	10.71	107	80-120	1	0-20	
1,1,2,2-Tetrachloroethane	ND	10.00	10.50	105	10.82	108	80-120	3	0-20	
Tetrachloroethene	ND	10.00	10.24	102	9.920	99	80-120	3	0-20	
Toluene	ND	10.00	10.53	105	10.38	104	80-120	1	0-20	
1,2,3-Trichlorobenzene	ND	10.00	11.51	115	11.78	118	80-120	2	0-20	
1,2,4-Trichlorobenzene	ND	10.00	11.67	117	11.74	117	80-120	1	0-20	
1,1,1-Trichloroethane	ND	10.00	10.52	105	10.55	105	80-120	0	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10.00	10.51	105	10.37	104	80-120	1	0-20	
1,1,2-Trichloroethane	ND	10.00	10.31	103	10.14	101	80-120	2	0-20	
Trichloroethene	ND	10.00	9.984	100	9.768	98	77-120	2	0-20	
Trichlorofluoromethane	ND	10.00	9.788	98	9.300	93	80-120	5	0-20	
1,2,3-Trichloropropane	ND	10.00	9.141	91	8.922	89	80-120	2	0-20	
1,2,4-Trimethylbenzene	ND	10.00	10.71	107	10.86	109	80-120	1	0-20	
1,3,5-Trimethylbenzene	ND	10.00	10.93	109	10.71	107	80-120	2	0-20	
Vinyl Acetate	ND	10.00	11.78	118	9.482	95	80-120	22	0-20	4
Vinyl Chloride	ND	10.00	9.848	98	9.369	94	72-126	5	0-20	
p/m-Xylene	ND	20.00	21.37	107	21.08	105	80-120	1	0-20	
o-Xylene	ND	10.00	10.91	109	10.73	107	80-120	2	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	10.88	109	10.81	108	67-121	1	0-49	
Tert-Butyl Alcohol (TBA)	13.61	50.00	64.35	101	51.42	76	36-162	22	0-30	
Diisopropyl Ether (DIPE)	ND	10.00	10.47	105	10.53	105	60-138	1	0-45	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	10.74	107	10.91	109	69-123	2	0-30	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	10.96	110	11.18	112	65-120	2	0-20	
Ethanol	ND	100.0	98.86	99	97.62	98	30-180	1	0-72	

RPD: Relative Percent Difference. CL: Control Limits

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Spike/Spike Duplicate - Surrogate

AECOM		Date Received:	01/13/15
3995 Via Oro Ave		Work Order:	15-01-0665
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
LW-4-20150113	**Sample**	**Aqueous**	**GC/MS L**	**01/14/15**	**01/14/15 13:48**	**150114S009**
LW-4-20150113	**Matrix Spike**	**Aqueous**	**GC/MS L**	**01/14/15**	**01/14/15 14:46**	**150114S009**
LW-4-20150113	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS L**	**01/14/15**	**01/14/15 15:14**	**150114S009**

Parameter	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	9.948	99	9.878	99	68-120	
Dibromofluoromethane	10.00	9.811	98	10.16	102	80-127	
1,2-Dichloroethane-d4	10.00	9.839	98	10.09	101	80-128	
Toluene-d8	10.00	10.02	100	10.06	101	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	01/13/15
3995 Via Oro Ave		Work Order:	15-01-0665
Long Beach, CA 90810-1869		Preparation:	N/A
		Method:	EPA 314.0 (M) pCBSA
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-080-51	**LCS**	**Aqueous**	**IC 13**	**N/A**	**01/14/15 15:22**	**150114L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
p-Chlorobenzenesulfonic Acid	25.00	24.33	97	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	01/13/15
3995 Via Oro Ave		Work Order:	15-01-0665
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-84	**LCS**	**Aqueous**	**GC/MS L**	**01/14/15**	**01/14/15 11:36**	**150114L005**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	10.00	15.17	152	80-120	73-127	X
Benzene	10.00	10.40	104	80-120	73-127	
Bromobenzene	10.00	10.59	106	80-120	73-127	
Bromochloromethane	10.00	10.10	101	80-120	73-127	
Bromodichloromethane	10.00	10.77	108	80-120	73-127	
Bromoform	10.00	11.99	120	80-120	73-127	
Bromomethane	10.00	9.262	93	80-120	73-127	
2-Butanone	10.00	13.87	139	80-120	73-127	X
n-Butylbenzene	10.00	10.82	108	77-123	69-131	
sec-Butylbenzene	10.00	10.43	104	80-120	73-127	
tert-Butylbenzene	10.00	10.44	104	80-120	73-127	
Carbon Disulfide	10.00	9.378	94	80-120	73-127	
Carbon Tetrachloride	10.00	10.44	104	74-134	64-144	
Chlorobenzene	10.00	10.12	101	80-120	73-127	
Chloroethane	10.00	8.602	86	80-120	73-127	
Chloroform	10.00	9.807	98	80-120	73-127	
Chloromethane	10.00	8.968	90	80-120	73-127	
2-Chlorotoluene	10.00	10.31	103	80-120	73-127	
4-Chlorotoluene	10.00	10.20	102	80-120	73-127	
Dibromochloromethane	10.00	10.26	103	80-120	73-127	
1,2-Dibromo-3-Chloropropane	10.00	12.07	121	80-120	73-127	ME
1,2-Dibromoethane	10.00	10.82	108	79-121	72-128	
Dibromomethane	10.00	10.55	105	80-120	73-127	
1,2-Dichlorobenzene	10.00	10.44	104	80-120	73-127	
1,3-Dichlorobenzene	10.00	10.29	103	80-120	73-127	
1,4-Dichlorobenzene	10.00	10.23	102	80-120	73-127	
Dichlorodifluoromethane	10.00	9.323	93	80-120	73-127	
1,1-Dichloroethane	10.00	9.847	98	80-120	73-127	
1,2-Dichloroethane	10.00	10.42	104	80-120	73-127	
1,1-Dichloroethene	10.00	9.637	96	78-126	70-134	
c-1,2-Dichloroethene	10.00	10.05	101	80-120	73-127	
t-1,2-Dichloroethene	10.00	9.804	98	80-120	73-127	
1,2-Dichloropropane	10.00	10.17	102	79-115	73-121	
1,3-Dichloropropane	10.00	10.93	109	80-120	73-127	
2,2-Dichloropropane	10.00	10.77	108	80-120	73-127	
1,1-Dichloropropene	10.00	10.77	108	80-120	73-127	
c-1,3-Dichloropropene	10.00	9.806	98	80-120	73-127	
t-1,3-Dichloropropene	10.00	9.472	95	80-120	73-127	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

AECOM		Date Received:	01/13/15
3995 Via Oro Ave		Work Order:	15-01-0665
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 3 of 4

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	10.00	10.42	104	80-120	73-127	
2-Hexanone	10.00	13.44	134	80-120	73-127	X
Isopropylbenzene	10.00	10.51	105	80-120	73-127	
p-Isopropyltoluene	10.00	10.43	104	80-120	73-127	
Methylene Chloride	10.00	9.690	97	80-120	73-127	
4-Methyl-2-Pentanone	10.00	12.22	122	80-120	73-127	ME
Naphthalene	10.00	12.12	121	80-120	73-127	ME
n-Propylbenzene	10.00	10.25	103	80-120	73-127	
Styrene	10.00	10.43	104	80-120	73-127	
1,1,1,2-Tetrachloroethane	10.00	11.19	112	80-120	73-127	
1,1,2,2-Tetrachloroethane	10.00	10.91	109	80-120	73-127	
Tetrachloroethene	10.00	11.05	110	80-120	73-127	
Toluene	10.00	10.28	103	80-120	73-127	
1,2,3-Trichlorobenzene	10.00	12.03	120	80-120	73-127	
1,2,4-Trichlorobenzene	10.00	11.83	118	80-120	73-127	
1,1,1-Trichloroethane	10.00	10.73	107	80-120	73-127	
1,1,2-Trichloro-1,2,2-Trifluoroethane	10.00	10.18	102	80-120	73-127	
1,1,2-Trichloroethane	10.00	10.75	107	80-120	73-127	
Trichloroethene	10.00	9.897	99	79-127	71-135	
Trichlorofluoromethane	10.00	9.119	91	80-120	73-127	
1,2,3-Trichloropropane	10.00	10.13	101	80-120	73-127	
1,2,4-Trimethylbenzene	10.00	10.36	104	80-120	73-127	
1,3,5-Trimethylbenzene	10.00	10.91	109	80-120	73-127	
Vinyl Acetate	10.00	11.09	111	80-120	73-127	
Vinyl Chloride	10.00	9.358	94	72-132	62-142	
p/m-Xylene	20.00	21.19	106	80-120	73-127	
o-Xylene	10.00	10.84	108	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	11.31	113	69-123	60-132	
Tert-Butyl Alcohol (TBA)	50.00	47.21	94	63-123	53-133	
Diisopropyl Ether (DIPE)	10.00	10.76	108	59-137	46-150	
Ethyl-t-Butyl Ether (ETBE)	10.00	11.10	111	69-123	60-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	11.42	114	70-120	62-128	
Ethanol	100.0	91.06	91	28-160	6-182	

Total number of LCS compounds: 71
Total number of ME compounds: 3
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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LCS Only - Surrogate

AECOM		Date Received:	01/13/15
3995 Via Oro Ave		Work Order:	15-01-0665
Long Beach, CA 90810-1869		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Montrose 2014 BL GW Sampling / 60288979.13.02			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-234-84	**LCS**	**Aqueous**	**GC/MS L**	**01/14/15**	**01/14/15 11:36**	**150114L005**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Bromofluorobenzene	10.00	10.18	102	68-120	
Dibromofluoromethane	10.00	10.22	102	80-127	
1,2-Dichloroethane-d4	10.00	10.11	101	80-128	
Toluene-d8	10.00	9.899	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-01-0665

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0 (M) pCBSA	N/A	650	IC 13	1
EPA 8260B	EPA 5030C	316	GC/MS L	2

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Glossary of Terms and Qualifiers

Work Order: 15-01-0665 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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AECOM

Chain-of-Custody Record

15-01-0665

Laboratory:
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Contact: Vik Patel
(714) 895-5494 phone
(714) 894-7501 fax

Client:
AECOM
3995 Via Oro Avenue
Long Beach, CA 90810

Shipment Number: MT00021
Method of Shipment: Courier
Air Bill Number:
Cooler Number: A
Custody Seal No.:

Project Number: 60288979.13.02
Project Name: 2014 BL GW Sampling
Project Contact: Katharine Carr Green
(562) 213-4166 phone
(562) 420-2915 fax

Sampler's Signature:

Lab Job:
Ship Date: 1/13/2015
Page: 1 of 1

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation Temp	Preservation Chemical	Filtered	No. of Containers	VOCs + FO (8260B)	pCBSA (Mod. 314.0)		Remarks
01	TB-20150113	1/13/2015	9:00	W	40 mL VOA	≤6° C	HCl pH < 2		3 ~~4~~	X		HOLD	
02	EB-20150113	1/13/2015	9:10	W	40 mL VOA	≤6° C	HCl pH < 2		4	X			
02	EB-20150113	1/13/2015	9:10	W	125 mL P	≤6° C	None		1		X		
03	LW-4-20150113	1/13/2015	1315	W	40 mL VOA	≤6° C	HCl pH < 2		4	X			
03	LW-4-20150113	1/13/2015	1315	W	125 mL P	≤6° C	None		1		X		

Analyses Requested

Relinquished By	Date	Received By	Date
Signature: [signature]	1-13-15	Signature: [signature]	1/13/15
Printed: K Carr Green	Time: 1450	Printed: ALEX MARQUEZ	Time: 1450
Company: AECOM		Company: ECI	
Reason:			

Relinquished By	Date	Received By	Date
Signature: [signature]	1/13/15	Signature: [signature]	1/13/15
Printed: ALEX MARQUEZ	Time: 1644	Printed: DANNY LE	Time: 1644
Company: ECI		Company: ECI	
Reason:			

Relinquished By	Date	Received By	Date
Signature		Signature	
Printed:	Time	Printed:	Time
Company		Company	
Reason:			

Comments:
Shipment summary: 3 samples, 1 cooler, 1 COC page. TAT Type: ~~1 Week~~ 72 hrs

Distribution: WHITE to Analytical Laboratory Report, YELLOW to Laboratory File, PINK to Courier/Delivery Service or Field Office, GOLDEN to Project Office File

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WORK ORDER #: 15-01-0 6 6 5

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AECOM

DATE: 01/13/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.1 °C + 0.2 °C (CF) = 3.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** 678

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Checked by:** 678

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** 836

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOA**h** (4) ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☑125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 150109A **Labeled/Checked by:** 836

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 977

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 977

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-89327-1
Client Project/Site: Montrose - Torrance, 60288979.13.02

For:
AECOM, Inc.
3995 Via Oro Ave
Long Beach, California 90810

Attn: Katharine Carr-Green

Authorized for release by:
10/3/2014 2:52:46 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 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.

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Sample Summary

Client: AECOM, Inc.
Project/Site: Montrose - Torrance, 60288979.13.02

TestAmerica Job ID: 440-89327-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-89327-1	TB-20140930	Water	09/30/14 15:00	09/30/14 18:25
440-89327-2	SWL0049-20140930	Water	09/30/14 15:14	09/30/14 18:25

Job ID: 440-89327-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-89327-1

Comments
No additional comments.

Receipt
The samples were received on 9/30/2014 6:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1º C.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 209307 recovered above the upper control limit for 2,2-Dichloropropane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Tetrachloroethene in batch 209307 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 209408 recovered above the upper control limit for Acetone. The samples associated with this CCV were non-detects for the affected analytes; 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.

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

Client Sample Results

Client: AECOM, Inc.
Project/Site: Montrose - Torrance, 60288979.13.02

TestAmerica Job ID: 440-89327-1

Client Sample ID: TB-20140930

Lab Sample ID: 440-89327-1

Date Collected: 09/30/14 15:00

Matrix: Water

Date Received: 09/30/14 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			10/01/14 23:45	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			10/01/14 23:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			10/01/14 23:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5	0.50	ug/L			10/01/14 23:45	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			10/01/14 23:45	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			10/01/14 23:45	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			10/01/14 23:45	1
1,2,3-Trichloropropane	ND		2.0	0.25	ug/L			10/01/14 23:45	1
1,2,4-Trichlorobenzene	ND		0.50	0.40	ug/L			10/01/14 23:45	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			10/01/14 23:45	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			10/01/14 23:45	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/01/14 23:45	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			10/01/14 23:45	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			10/01/14 23:45	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			10/01/14 23:45	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
2,2-Dichloropropane	ND		0.50	0.25	ug/L			10/01/14 23:45	1
2-Butanone (MEK)	ND		10	2.5	ug/L			10/01/14 23:45	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
2-Hexanone	ND		10	2.5	ug/L			10/01/14 23:45	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
4-Methyl-2-pentanone (MIBK)	ND		10	2.5	ug/L			10/01/14 23:45	1
Acetone	ND		10	4.5	ug/L			10/01/14 23:45	1
Benzene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Bromobenzene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Bromochloromethane	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Bromodichloromethane	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Bromoform	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Bromomethane	ND		1.0	0.25	ug/L			10/01/14 23:45	1
Carbon disulfide	ND		2.0	0.25	ug/L			10/01/14 23:45	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Chlorobenzene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Chloroethane	ND		1.0	0.25	ug/L			10/01/14 23:45	1
Chloroform	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Chloromethane	ND		1.0	0.25	ug/L			10/01/14 23:45	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Dibromochloromethane	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Dibromomethane	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Dichlorodifluoromethane	ND		2.0	0.25	ug/L			10/01/14 23:45	1
Ethylbenzene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Hexachlorobutadiene	ND		1.0	0.25	ug/L			10/01/14 23:45	1

Client Sample ID: TB-20140930

Lab Sample ID: 440-89327-1

Date Collected: 09/30/14 15:00

Matrix: Water

Date Received: 09/30/14 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl Ether (DIPE)	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Isopropylbenzene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
m,p-Xylene	ND		1.0	0.50	ug/L			10/01/14 23:45	1
Methylene Chloride	ND		2.0	0.88	ug/L			10/01/14 23:45	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Naphthalene	ND		0.50	0.40	ug/L			10/01/14 23:45	1
n-Butylbenzene	ND		0.50	0.40	ug/L			10/01/14 23:45	1
N-Propylbenzene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
o-Xylene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Styrene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Tert-amyl-methyl ether (TAME)	ND		0.50	0.25	ug/L			10/01/14 23:45	1
tert-Butyl alcohol (TBA)	ND		10	5.0	ug/L			10/01/14 23:45	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Tetrachloroethene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Toluene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Trichloroethene	ND		0.50	0.25	ug/L			10/01/14 23:45	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			10/01/14 23:45	1
Vinyl chloride	ND		0.50	0.25	ug/L			10/01/14 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*80 - 120*		*10/01/14 23:45*	*1*
Dibromofluoromethane (Surr)	*118*		*76 - 132*		*10/01/14 23:45*	*1*
Toluene-d8 (Surr)	*114*		*80 - 128*		*10/01/14 23:45*	*1*

Client Sample ID: SWL0049-20140930

Lab Sample ID: 440-89327-2

Date Collected: 09/30/14 15:14

Matrix: Water

Date Received: 09/30/14 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20	5.0	ug/L			10/02/14 12:47	20
1,1,1-Trichloroethane	ND		10	5.0	ug/L			10/02/14 12:47	20
1,1,2,2-Tetrachloroethane	ND		10	5.0	ug/L			10/02/14 12:47	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	10	ug/L			10/02/14 12:47	20
1,1,2-Trichloroethane	ND		10	5.0	ug/L			10/02/14 12:47	20
1,1-Dichloroethane	ND		10	5.0	ug/L			10/02/14 12:47	20
1,1-Dichloroethene	ND		10	5.0	ug/L			10/02/14 12:47	20
1,1-Dichloropropene	ND		10	5.0	ug/L			10/02/14 12:47	20
1,2,3-Trichlorobenzene	ND		20	8.0	ug/L			10/02/14 12:47	20
1,2,3-Trichloropropane	ND		40	5.0	ug/L			10/02/14 12:47	20
1,2,4-Trichlorobenzene	**16**		10	8.0	ug/L			10/02/14 12:47	20
1,2,4-Trimethylbenzene	ND		10	5.0	ug/L			10/02/14 12:47	20
1,2-Dibromo-3-Chloropropane	ND		100	10	ug/L			10/02/14 12:47	20
1,2-Dibromoethane (EDB)	ND		10	5.0	ug/L			10/02/14 12:47	20
1,2-Dichlorobenzene	**12**		10	10	ug/L			10/02/14 12:47	20
1,2-Dichloroethane	**140**		10	5.0	ug/L			10/02/14 12:47	20
1,2-Dichloropropane	ND		10	5.0	ug/L			10/02/14 12:47	20

Client Sample ID: SWL0049-20140930

Lab Sample ID: 440-89327-2

Date Collected: 09/30/14 15:14

Matrix: Water

Date Received: 09/30/14 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		10	5.0	ug/L			10/02/14 12:47	20
1,3-Dichlorobenzene	ND		10	5.0	ug/L			10/02/14 12:47	20
1,3-Dichloropropane	ND		10	5.0	ug/L			10/02/14 12:47	20
1,4-Dichlorobenzene	**28**		10	5.0	ug/L			10/02/14 12:47	20
2,2-Dichloropropane	ND		10	5.0	ug/L			10/02/14 12:47	20
2-Butanone (MEK)	ND		200	50	ug/L			10/02/14 12:47	20
2-Chlorotoluene	ND		10	5.0	ug/L			10/02/14 12:47	20
2-Hexanone	ND		200	50	ug/L			10/02/14 12:47	20
4-Chlorotoluene	ND		10	5.0	ug/L			10/02/14 12:47	20
4-Isopropyltoluene	ND		10	5.0	ug/L			10/02/14 12:47	20
4-Methyl-2-pentanone (MIBK)	ND		200	50	ug/L			10/02/14 12:47	20
Acetone	ND		200	90	ug/L			10/02/14 12:47	20
Benzene	**100**		10	5.0	ug/L			10/02/14 12:47	20
Bromobenzene	ND		10	5.0	ug/L			10/02/14 12:47	20
Bromochloromethane	ND		10	5.0	ug/L			10/02/14 12:47	20
Bromodichloromethane	ND		10	5.0	ug/L			10/02/14 12:47	20
Bromoform	ND		10	5.0	ug/L			10/02/14 12:47	20
Bromomethane	ND		20	5.0	ug/L			10/02/14 12:47	20
Carbon disulfide	ND		40	5.0	ug/L			10/02/14 12:47	20
Carbon tetrachloride	ND		10	5.0	ug/L			10/02/14 12:47	20
Chloroethane	ND		20	5.0	ug/L			10/02/14 12:47	20
Chloroform	ND		10	5.0	ug/L			10/02/14 12:47	20
Chloromethane	ND		20	5.0	ug/L			10/02/14 12:47	20
cis-1,2-Dichloroethene	ND		10	5.0	ug/L			10/02/14 12:47	20
cis-1,3-Dichloropropene	ND		10	5.0	ug/L			10/02/14 12:47	20
Dibromochloromethane	ND		10	5.0	ug/L			10/02/14 12:47	20
Dibromomethane	ND		10	5.0	ug/L			10/02/14 12:47	20
Dichlorodifluoromethane	ND		40	5.0	ug/L			10/02/14 12:47	20
Ethylbenzene	**7.6**	**J**	10	5.0	ug/L			10/02/14 12:47	20
Ethyl-t-butyl ether (ETBE)	ND		10	5.0	ug/L			10/02/14 12:47	20
Hexachlorobutadiene	ND		20	5.0	ug/L			10/02/14 12:47	20
Isopropyl Ether (DIPE)	ND		10	5.0	ug/L			10/02/14 12:47	20
Isopropylbenzene	**6.8**	**J**	10	5.0	ug/L			10/02/14 12:47	20
m,p-Xylene	ND		20	10	ug/L			10/02/14 12:47	20
Methylene Chloride	ND		40	18	ug/L			10/02/14 12:47	20
Methyl-t-Butyl Ether (MTBE)	ND		10	5.0	ug/L			10/02/14 12:47	20
Naphthalene	ND		10	8.0	ug/L			10/02/14 12:47	20
n-Butylbenzene	ND		10	8.0	ug/L			10/02/14 12:47	20
N-Propylbenzene	ND		10	5.0	ug/L			10/02/14 12:47	20
o-Xylene	ND		10	5.0	ug/L			10/02/14 12:47	20
sec-Butylbenzene	**6.2**	**J**	10	5.0	ug/L			10/02/14 12:47	20
Styrene	ND		10	5.0	ug/L			10/02/14 12:47	20
Tert-amyl-methyl ether (TAME)	ND		10	5.0	ug/L			10/02/14 12:47	20
tert-Butyl alcohol (TBA)	ND		200	100	ug/L			10/02/14 12:47	20
tert-Butylbenzene	ND		10	5.0	ug/L			10/02/14 12:47	20
Tetrachloroethene	**250**		10	5.0	ug/L			10/02/14 12:47	20
Toluene	ND		10	5.0	ug/L			10/02/14 12:47	20
trans-1,2-Dichloroethene	ND		10	5.0	ug/L			10/02/14 12:47	20
trans-1,3-Dichloropropene	ND		10	5.0	ug/L			10/02/14 12:47	20

Client: AECOM, Inc.
Project/Site: Montrose - Torrance, 60288979.13.02

TestAmerica Job ID: 440-89327-1

Client Sample ID: SWL0049-20140930
Date Collected: 09/30/14 15:14
Date Received: 09/30/14 18:25

Lab Sample ID: 440-89327-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**140**		10	5.0	ug/L			10/02/14 12:47	20
Trichlorofluoromethane	ND		20	5.0	ug/L			10/02/14 12:47	20
Vinyl chloride	ND		10	5.0	ug/L			10/02/14 12:47	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/02/14 12:47*	*20*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*10/02/14 12:47*	*20*
Toluene-d8 (Surr)	*101*		*80 - 128*		*10/02/14 12:47*	*20*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**8700**		50	25	ug/L			10/02/14 00:44	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*80 - 120*		*10/02/14 00:44*	*100*
Dibromofluoromethane (Surr)	*117*		*76 - 132*		*10/02/14 00:44*	*100*
Toluene-d8 (Surr)	*113*		*80 - 128*		*10/02/14 00:44*	*100*

Method Summary

Client: AECOM, Inc.
Project/Site: Montrose - Torrance, 60288979.13.02

TestAmerica Job ID: 440-89327-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: AECOM, Inc.
Project/Site: Montrose - Torrance, 60288979.13.02

TestAmerica Job ID: 440-89327-1

Client Sample ID: TB-20140930

Lab Sample ID: 440-89327-1

Date Collected: 09/30/14 15:00

Matrix: Water

Date Received: 09/30/14 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	209307	10/01/14 23:45	AT	TAL IRV

Client Sample ID: SWL0049-20140930

Lab Sample ID: 440-89327-2

Date Collected: 09/30/14 15:14

Matrix: Water

Date Received: 09/30/14 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	100	10 mL	10 mL	209307	10/02/14 00:44	AT	TAL IRV
Total/NA	Analysis	8260B		20	10 mL	10 mL	209408	10/02/14 12:47	RM	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-209307/4
Matrix: Water
Analysis Batch: 209307

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			10/01/14 18:58	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			10/01/14 18:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			10/01/14 18:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5	0.50	ug/L			10/01/14 18:58	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			10/01/14 18:58	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			10/01/14 18:58	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			10/01/14 18:58	1
1,2,3-Trichloropropane	ND		2.0	0.25	ug/L			10/01/14 18:58	1
1,2,4-Trichlorobenzene	ND		0.50	0.40	ug/L			10/01/14 18:58	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			10/01/14 18:58	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			10/01/14 18:58	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/01/14 18:58	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			10/01/14 18:58	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			10/01/14 18:58	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			10/01/14 18:58	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
2,2-Dichloropropane	ND		0.50	0.25	ug/L			10/01/14 18:58	1
2-Butanone (MEK)	ND		10	2.5	ug/L			10/01/14 18:58	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
2-Hexanone	ND		10	2.5	ug/L			10/01/14 18:58	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
4-Methyl-2-pentanone (MIBK)	ND		10	2.5	ug/L			10/01/14 18:58	1
Acetone	ND		10	4.5	ug/L			10/01/14 18:58	1
Benzene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Bromobenzene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Bromochloromethane	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Bromodichloromethane	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Bromoform	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Bromomethane	ND		1.0	0.25	ug/L			10/01/14 18:58	1
Carbon disulfide	ND		2.0	0.25	ug/L			10/01/14 18:58	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Chlorobenzene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Chloroethane	ND		1.0	0.25	ug/L			10/01/14 18:58	1
Chloroform	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Chloromethane	ND		1.0	0.25	ug/L			10/01/14 18:58	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Dibromochloromethane	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Dibromomethane	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Dichlorodifluoromethane	ND		2.0	0.25	ug/L			10/01/14 18:58	1
Ethylbenzene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	0.25	ug/L			10/01/14 18:58	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-209307/4
Matrix: Water
Analysis Batch: 209307

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		1.0	0.25	ug/L			10/01/14 18:58	1
Isopropyl Ether (DIPE)	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Isopropylbenzene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
m,p-Xylene	ND		1.0	0.50	ug/L			10/01/14 18:58	1
Methylene Chloride	ND		2.0	0.88	ug/L			10/01/14 18:58	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Naphthalene	ND		0.50	0.40	ug/L			10/01/14 18:58	1
n-Butylbenzene	ND		0.50	0.40	ug/L			10/01/14 18:58	1
N-Propylbenzene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
o-Xylene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Styrene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Tert-amyl-methyl ether (TAME)	ND		0.50	0.25	ug/L			10/01/14 18:58	1
tert-Butyl alcohol (TBA)	ND		10	5.0	ug/L			10/01/14 18:58	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Tetrachloroethene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Toluene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Trichloroethene	ND		0.50	0.25	ug/L			10/01/14 18:58	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			10/01/14 18:58	1
Vinyl chloride	ND		0.50	0.25	ug/L			10/01/14 18:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*		*10/01/14 18:58*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*10/01/14 18:58*	*1*
Toluene-d8 (Surr)	*112*		*80 - 128*		*10/01/14 18:58*	*1*

Lab Sample ID: LCS 440-209307/5
Matrix: Water
Analysis Batch: 209307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	29.3		ug/L		117	60 - 141
1,1,1-Trichloroethane	25.0	29.6		ug/L		118	70 - 130
1,1,2,2-Tetrachloroethane	25.0	27.5		ug/L		110	63 - 130
1,1,2-Trichloroethane	25.0	27.4		ug/L		110	70 - 130
1,1-Dichloroethane	25.0	28.1		ug/L		112	64 - 130
1,1-Dichloroethene	25.0	28.4		ug/L		113	70 - 130
1,1-Dichloropropene	25.0	27.9		ug/L		112	70 - 130
1,2,3-Trichlorobenzene	25.0	26.4		ug/L		106	60 - 140
1,2,3-Trichloropropane	25.0	26.3		ug/L		105	63 - 130
1,2,4-Trichlorobenzene	25.0	27.9		ug/L		112	60 - 140
1,2,4-Trimethylbenzene	25.0	29.7		ug/L		119	70 - 135
1,2-Dibromo-3-Chloropropane	25.0	25.9		ug/L		104	52 - 140
1,2-Dibromoethane (EDB)	25.0	27.4		ug/L		110	70 - 130
1,2-Dichlorobenzene	25.0	27.4		ug/L		110	70 - 130
1,2-Dichloroethane	25.0	28.6		ug/L		114	57 - 138

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-209307/5
Matrix: Water
Analysis Batch: 209307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	27.3		ug/L		109	67 - 130
1,3,5-Trimethylbenzene	25.0	29.2		ug/L		117	70 - 136
1,3-Dichlorobenzene	25.0	26.8		ug/L		107	70 - 130
1,3-Dichloropropane	25.0	27.3		ug/L		109	70 - 130
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
2,2-Dichloropropane	25.0	33.0		ug/L		132	68 - 141
2-Butanone (MEK)	25.0	23.5		ug/L		94	44 - 150
2-Chlorotoluene	25.0	27.9		ug/L		112	70 - 130
2-Hexanone	25.0	24.4		ug/L		97	10 - 150
4-Chlorotoluene	25.0	29.7		ug/L		119	70 - 130
4-Isopropyltoluene	25.0	29.3		ug/L		117	70 - 132
4-Methyl-2-pentanone (MIBK)	25.0	26.0		ug/L		104	59 - 149
Acetone	25.0	23.2		ug/L		93	10 - 150
Benzene	25.0	25.7		ug/L		103	68 - 130
Bromobenzene	25.0	27.5		ug/L		110	70 - 130
Bromochloromethane	25.0	27.5		ug/L		110	70 - 130
Bromodichloromethane	25.0	30.4		ug/L		122	70 - 132
Bromoform	25.0	28.2		ug/L		113	60 - 148
Bromomethane	25.0	31.4		ug/L		126	64 - 139
Carbon disulfide	25.0	25.9		ug/L		104	52 - 136
Carbon tetrachloride	25.0	30.7		ug/L		123	60 - 150
Chlorobenzene	25.0	25.4		ug/L		102	70 - 130
Chloroethane	25.0	27.4		ug/L		110	64 - 135
Chloroform	25.0	28.7		ug/L		115	70 - 130
Chloromethane	25.0	26.9		ug/L		108	47 - 140
cis-1,2-Dichloroethene	25.0	27.9		ug/L		112	70 - 133
cis-1,3-Dichloropropene	25.0	30.9		ug/L		124	70 - 133
Dibromochloromethane	25.0	29.9		ug/L		120	69 - 145
Dibromomethane	25.0	27.1		ug/L		109	70 - 130
Dichlorodifluoromethane	25.0	33.4		ug/L		134	29 - 150
Ethylbenzene	25.0	28.2		ug/L		113	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	28.0		ug/L		112	60 - 136
Hexachlorobutadiene	25.0	27.3		ug/L		109	10 - 150
Isopropyl Ether (DIPE)	25.0	28.4		ug/L		114	58 - 139
Isopropylbenzene	25.0	28.4		ug/L		114	70 - 136
m,p-Xylene	50.0	53.3		ug/L		107	70 - 130
Methylene Chloride	25.0	31.2		ug/L		125	52 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	26.8		ug/L		107	63 - 131
Naphthalene	25.0	27.6		ug/L		110	60 - 140
n-Butylbenzene	25.0	29.5		ug/L		118	65 - 150
N-Propylbenzene	25.0	29.6		ug/L		118	67 - 139
o-Xylene	25.0	27.3		ug/L		109	70 - 130
sec-Butylbenzene	25.0	29.3		ug/L		117	70 - 138
Styrene	25.0	29.4		ug/L		117	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	26.7		ug/L		107	57 - 139
tert-Butyl alcohol (TBA)	125	125		ug/L		100	70 - 130
tert-Butylbenzene	25.0	28.9		ug/L		116	70 - 130
Tetrachloroethene	25.0	25.8		ug/L		103	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-209307/5
Matrix: Water
Analysis Batch: 209307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	26.9		ug/L		108	70 - 130
trans-1,2-Dichloroethene	25.0	28.4		ug/L		114	70 - 130
trans-1,3-Dichloropropene	25.0	30.4		ug/L		122	70 - 132
Trichloroethene	25.0	27.4		ug/L		109	70 - 130
Trichlorofluoromethane	25.0	34.6		ug/L		138	60 - 150
Vinyl chloride	25.0	29.6		ug/L		118	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*80 - 120*
Dibromofluoromethane (Surr)	*112*		*76 - 132*
Toluene-d8 (Surr)	*112*		*80 - 128*

Lab Sample ID: 440-89027-A-3 MS
Matrix: Water
Analysis Batch: 209307

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		25.0	27.4		ug/L		109	60 - 149
1,1,1-Trichloroethane	0.84		25.0	28.8		ug/L		112	70 - 130
1,1,2,2-Tetrachloroethane	ND		25.0	25.4		ug/L		102	63 - 130
1,1,2-Trichloroethane	ND		25.0	25.3		ug/L		101	70 - 130
1,1-Dichloroethane	0.93		25.0	27.3		ug/L		105	65 - 130
1,1-Dichloroethene	42		25.0	65.3		ug/L		93	70 - 130
1,1-Dichloropropene	ND		25.0	26.3		ug/L		105	64 - 130
1,2,3-Trichlorobenzene	ND		25.0	24.8		ug/L		99	60 - 140
1,2,3-Trichloropropane	ND		25.0	23.5		ug/L		94	60 - 130
1,2,4-Trichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	26.8		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	22.7		ug/L		91	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	24.8		ug/L		99	70 - 131
1,2-Dichlorobenzene	ND		25.0	25.3		ug/L		101	70 - 130
1,2-Dichloroethane	ND		25.0	27.2		ug/L		109	56 - 146
1,2-Dichloropropane	ND		25.0	26.0		ug/L		104	69 - 130
1,3,5-Trimethylbenzene	ND		25.0	26.9		ug/L		108	70 - 130
1,3-Dichlorobenzene	ND		25.0	24.8		ug/L		99	70 - 130
1,3-Dichloropropane	ND		25.0	24.7		ug/L		99	70 - 130
1,4-Dichlorobenzene	ND		25.0	24.0		ug/L		96	70 - 130
2,2-Dichloropropane	ND		25.0	31.9		ug/L		127	69 - 138
2-Butanone (MEK)	ND		25.0	19.9		ug/L		80	48 - 140
2-Chlorotoluene	ND		25.0	25.7		ug/L		103	70 - 130
2-Hexanone	ND		25.0	19.3		ug/L		77	10 - 150
4-Chlorotoluene	ND		25.0	27.7		ug/L		111	70 - 130
4-Isopropyltoluene	ND		25.0	26.8		ug/L		107	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	22.7		ug/L		91	52 - 150
Acetone	ND		25.0	17.0		ug/L		68	10 - 150
Benzene	ND		25.0	24.3		ug/L		97	66 - 130
Bromobenzene	ND		25.0	25.4		ug/L		101	70 - 130
Bromochloromethane	ND		25.0	26.3		ug/L		105	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-89027-A-3 MS
Matrix: Water
Analysis Batch: 209307

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	ND		25.0	28.8		ug/L		115	70 - 138
Bromoform	ND		25.0	25.7		ug/L		103	59 - 150
Bromomethane	ND		25.0	28.3		ug/L		113	62 - 131
Carbon disulfide	ND		25.0	24.3		ug/L		97	49 - 140
Carbon tetrachloride	ND		25.0	28.9		ug/L		116	60 - 150
Chlorobenzene	ND		25.0	23.4		ug/L		94	70 - 130
Chloroethane	ND		25.0	26.9		ug/L		108	68 - 130
Chloroform	ND		25.0	27.2		ug/L		109	70 - 130
Chloromethane	ND		25.0	26.4		ug/L		106	39 - 144
cis-1,2-Dichloroethene	0.45	J	25.0	27.4		ug/L		108	70 - 130
cis-1,3-Dichloropropene	ND		25.0	28.9		ug/L		116	70 - 133
Dibromochloromethane	ND		25.0	27.3		ug/L		109	70 - 148
Dibromomethane	ND		25.0	25.5		ug/L		102	70 - 130
Dichlorodifluoromethane	ND		25.0	31.5		ug/L		126	25 - 142
Ethylbenzene	ND		25.0	25.9		ug/L		104	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	26.2		ug/L		105	70 - 130
Hexachlorobutadiene	ND		25.0	25.5		ug/L		102	10 - 150
Isopropyl Ether (DIPE)	ND		25.0	26.9		ug/L		108	64 - 138
Isopropylbenzene	ND		25.0	26.4		ug/L		106	70 - 132
m,p-Xylene	ND		50.0	48.9		ug/L		98	70 - 133
Methylene Chloride	ND		25.0	28.2		ug/L		113	52 - 130
Methyl-t-Butyl Ether (MTBE)	ND		25.0	24.9		ug/L		100	70 - 130
Naphthalene	ND		25.0	24.3		ug/L		97	60 - 140
n-Butylbenzene	ND		25.0	27.4		ug/L		110	61 - 149
N-Propylbenzene	ND		25.0	27.6		ug/L		110	66 - 135
o-Xylene	ND		25.0	25.2		ug/L		101	70 - 133
sec-Butylbenzene	ND		25.0	27.0		ug/L		108	67 - 134
Styrene	ND		25.0	25.0		ug/L		100	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	24.6		ug/L		98	68 - 133
tert-Butyl alcohol (TBA)	ND		125	122		ug/L		98	70 - 130
tert-Butylbenzene	ND		25.0	26.9		ug/L		107	70 - 130
Tetrachloroethene	56		25.0	70.5	F1	ug/L		58	70 - 137
Toluene	ND		25.0	25.6		ug/L		102	70 - 130
trans-1,2-Dichloroethene	ND		25.0	26.6		ug/L		107	70 - 130
trans-1,3-Dichloropropene	ND		25.0	28.6		ug/L		114	70 - 138
Trichloroethene	110		25.0	123	4	ug/L		66	70 - 130
Trichlorofluoromethane	1.0		25.0	33.5		ug/L		130	60 - 150
Vinyl chloride	ND		25.0	27.9		ug/L		112	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*80 - 120*
Dibromofluoromethane (Surr)	*115*		*76 - 132*
Toluene-d8 (Surr)	*114*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-89027-A-3 MSD
Matrix: Water
Analysis Batch: 209307

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	29.3		ug/L		117	60 - 149	7	20
1,1,1-Trichloroethane	0.84		25.0	29.5		ug/L		114	70 - 130	2	20
1,1,2,2-Tetrachloroethane	ND		25.0	26.7		ug/L		107	63 - 130	5	30
1,1,2-Trichloroethane	ND		25.0	26.8		ug/L		107	70 - 130	6	25
1,1-Dichloroethane	0.93		25.0	28.3		ug/L		109	65 - 130	4	20
1,1-Dichloroethene	42		25.0	63.5		ug/L		85	70 - 130	3	20
1,1-Dichloropropene	ND		25.0	26.8		ug/L		107	64 - 130	2	20
1,2,3-Trichlorobenzene	ND		25.0	26.3		ug/L		105	60 - 140	6	20
1,2,3-Trichloropropane	ND		25.0	24.8		ug/L		99	60 - 130	5	30
1,2,4-Trichlorobenzene	ND		25.0	27.2		ug/L		109	60 - 140	5	20
1,2,4-Trimethylbenzene	ND		25.0	26.8		ug/L		107	70 - 130	0	25
1,2-Dibromo-3-Chloropropane	ND		25.0	24.3		ug/L		97	48 - 140	7	30
1,2-Dibromoethane (EDB)	ND		25.0	26.9		ug/L		108	70 - 131	8	25
1,2-Dichlorobenzene	ND		25.0	26.6		ug/L		107	70 - 130	5	20
1,2-Dichloroethane	ND		25.0	28.3		ug/L		113	56 - 146	4	20
1,2-Dichloropropane	ND		25.0	27.1		ug/L		108	69 - 130	4	20
1,3,5-Trimethylbenzene	ND		25.0	27.4		ug/L		110	70 - 130	2	20
1,3-Dichlorobenzene	ND		25.0	25.6		ug/L		103	70 - 130	4	20
1,3-Dichloropropane	ND		25.0	27.0		ug/L		108	70 - 130	9	25
1,4-Dichlorobenzene	ND		25.0	25.0		ug/L		100	70 - 130	4	20
2,2-Dichloropropane	ND		25.0	32.2		ug/L		129	69 - 138	1	25
2-Butanone (MEK)	ND		25.0	21.2		ug/L		85	48 - 140	7	40
2-Chlorotoluene	ND		25.0	26.1		ug/L		104	70 - 130	2	20
2-Hexanone	ND		25.0	21.0		ug/L		84	10 - 150	8	35
4-Chlorotoluene	ND		25.0	27.8		ug/L		111	70 - 130	0	20
4-Isopropyltoluene	ND		25.0	27.2		ug/L		109	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	24.6		ug/L		98	52 - 150	8	35
Acetone	ND		25.0	18.4		ug/L		74	10 - 150	8	35
Benzene	ND		25.0	24.9		ug/L		100	66 - 130	3	20
Bromobenzene	ND		25.0	26.5		ug/L		106	70 - 130	4	20
Bromochloromethane	ND		25.0	27.0		ug/L		108	70 - 130	3	25
Bromodichloromethane	ND		25.0	29.8		ug/L		119	70 - 138	4	20
Bromoform	ND		25.0	27.9		ug/L		112	59 - 150	9	25
Bromomethane	ND		25.0	29.2		ug/L		117	62 - 131	3	25
Carbon disulfide	ND		25.0	24.7		ug/L		99	49 - 140	2	20
Carbon tetrachloride	ND		25.0	29.7		ug/L		119	60 - 150	3	25
Chlorobenzene	ND		25.0	24.8		ug/L		99	70 - 130	6	20
Chloroethane	ND		25.0	26.9		ug/L		107	68 - 130	0	25
Chloroform	ND		25.0	28.4		ug/L		113	70 - 130	4	20
Chloromethane	ND		25.0	27.3		ug/L		109	39 - 144	3	25
cis-1,2-Dichloroethene	0.45	J	25.0	28.4		ug/L		112	70 - 130	4	20
cis-1,3-Dichloropropene	ND		25.0	30.8		ug/L		123	70 - 133	6	20
Dibromochloromethane	ND		25.0	29.9		ug/L		120	70 - 148	9	25
Dibromomethane	ND		25.0	27.3		ug/L		109	70 - 130	7	25
Dichlorodifluoromethane	ND		25.0	31.6		ug/L		126	25 - 142	0	30
Ethylbenzene	ND		25.0	26.9		ug/L		108	70 - 130	4	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	28.0		ug/L		112	70 - 130	7	25
Hexachlorobutadiene	ND		25.0	26.2		ug/L		105	10 - 150	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-89027-A-3 MSD
Matrix: Water
Analysis Batch: 209307

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropyl Ether (DIPE)	ND		25.0	28.4		ug/L		114	64 - 138	6	25
Isopropylbenzene	ND		25.0	26.9		ug/L		107	70 - 132	2	20
m,p-Xylene	ND		50.0	51.3		ug/L		103	70 - 133	5	25
Methylene Chloride	ND		25.0	30.4		ug/L		122	52 - 130	7	20
Methyl-t-Butyl Ether (MTBE)	ND		25.0	26.8		ug/L		107	70 - 130	7	25
Naphthalene	ND		25.0	25.4		ug/L		102	60 - 140	5	30
n-Butylbenzene	ND		25.0	27.9		ug/L		112	61 - 149	2	20
N-Propylbenzene	ND		25.0	27.9		ug/L		112	66 - 135	1	20
o-Xylene	ND		25.0	26.5		ug/L		106	70 - 133	5	20
sec-Butylbenzene	ND		25.0	27.4		ug/L		110	67 - 134	2	20
Styrene	ND		25.0	25.1		ug/L		100	29 - 150	0	35
Tert-amyl-methyl ether (TAME)	ND		25.0	26.5		ug/L		106	68 - 133	8	30
tert-Butyl alcohol (TBA)	ND		125	127		ug/L		102	70 - 130	4	25
tert-Butylbenzene	ND		25.0	27.1		ug/L		109	70 - 130	1	20
Tetrachloroethene	56		25.0	70.9	F1	ug/L		59	70 - 137	0	20
Toluene	ND		25.0	26.2		ug/L		105	70 - 130	3	20
trans-1,2-Dichloroethene	ND		25.0	27.2		ug/L		109	70 - 130	2	20
trans-1,3-Dichloropropene	ND		25.0	30.4		ug/L		122	70 - 138	6	25
Trichloroethene	110		25.0	121	4	ug/L		58	70 - 130	2	20
Trichlorofluoromethane	1.0		25.0	33.7		ug/L		130	60 - 150	0	25
Vinyl chloride	ND		25.0	28.9		ug/L		116	50 - 137	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*80 - 120*
Dibromofluoromethane (Surr)	*114*		*76 - 132*
Toluene-d8 (Surr)	*112*		*80 - 128*

Lab Sample ID: MB 440-209408/4
Matrix: Water
Analysis Batch: 209408

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			10/02/14 08:10	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			10/02/14 08:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			10/02/14 08:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5	0.50	ug/L			10/02/14 08:10	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			10/02/14 08:10	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			10/02/14 08:10	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			10/02/14 08:10	1
1,2,3-Trichloropropane	ND		2.0	0.25	ug/L			10/02/14 08:10	1
1,2,4-Trichlorobenzene	ND		0.50	0.40	ug/L			10/02/14 08:10	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			10/02/14 08:10	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			10/02/14 08:10	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			10/02/14 08:10	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			10/02/14 08:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-209408/4
Matrix: Water
Analysis Batch: 209408

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.50	0.25	ug/L			10/02/14 08:10	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			10/02/14 08:10	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
2,2-Dichloropropane	ND		0.50	0.25	ug/L			10/02/14 08:10	1
2-Butanone (MEK)	ND		10	2.5	ug/L			10/02/14 08:10	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
2-Hexanone	ND		10	2.5	ug/L			10/02/14 08:10	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
4-Methyl-2-pentanone (MIBK)	ND		10	2.5	ug/L			10/02/14 08:10	1
Acetone	ND		10	4.5	ug/L			10/02/14 08:10	1
Benzene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Bromobenzene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Bromochloromethane	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Bromodichloromethane	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Bromoform	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Bromomethane	ND		1.0	0.25	ug/L			10/02/14 08:10	1
Carbon disulfide	ND		2.0	0.25	ug/L			10/02/14 08:10	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Chlorobenzene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Chloroethane	ND		1.0	0.25	ug/L			10/02/14 08:10	1
Chloroform	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Chloromethane	ND		1.0	0.25	ug/L			10/02/14 08:10	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Dibromochloromethane	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Dibromomethane	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Dichlorodifluoromethane	ND		2.0	0.25	ug/L			10/02/14 08:10	1
Ethylbenzene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Hexachlorobutadiene	ND		1.0	0.25	ug/L			10/02/14 08:10	1
Isopropyl Ether (DIPE)	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Isopropylbenzene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
m,p-Xylene	ND		1.0	0.50	ug/L			10/02/14 08:10	1
Methylene Chloride	ND		2.0	0.88	ug/L			10/02/14 08:10	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Naphthalene	ND		0.50	0.40	ug/L			10/02/14 08:10	1
n-Butylbenzene	ND		0.50	0.40	ug/L			10/02/14 08:10	1
N-Propylbenzene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
o-Xylene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Styrene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Tert-amyl-methyl ether (TAME)	ND		0.50	0.25	ug/L			10/02/14 08:10	1
tert-Butyl alcohol (TBA)	ND		10	5.0	ug/L			10/02/14 08:10	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Tetrachloroethene	ND		0.50	0.25	ug/L			10/02/14 08:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-209408/4
Matrix: Water
Analysis Batch: 209408

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Trichloroethene	ND		0.50	0.25	ug/L			10/02/14 08:10	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			10/02/14 08:10	1
Vinyl chloride	ND		0.50	0.25	ug/L			10/02/14 08:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/02/14 08:10*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*10/02/14 08:10*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*10/02/14 08:10*	*1*

Lab Sample ID: LCS 440-209408/5
Matrix: Water
Analysis Batch: 209408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.2		ug/L		101	60 - 141
1,1,1-Trichloroethane	25.0	22.7		ug/L		91	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.7		ug/L		91	63 - 130
1,1,2-Trichloroethane	25.0	24.4		ug/L		97	70 - 130
1,1-Dichloroethane	25.0	24.8		ug/L		99	64 - 130
1,1-Dichloroethene	25.0	26.1		ug/L		105	70 - 130
1,1-Dichloropropene	25.0	23.2		ug/L		93	70 - 130
1,2,3-Trichlorobenzene	25.0	25.8		ug/L		103	60 - 140
1,2,3-Trichloropropane	25.0	20.7		ug/L		83	63 - 130
1,2,4-Trichlorobenzene	25.0	26.4		ug/L		105	60 - 140
1,2,4-Trimethylbenzene	25.0	24.1		ug/L		96	70 - 135
1,2-Dibromo-3-Chloropropane	25.0	17.0		ug/L		68	52 - 140
1,2-Dibromoethane (EDB)	25.0	24.4		ug/L		97	70 - 130
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,2-Dichloroethane	25.0	22.6		ug/L		91	57 - 138
1,2-Dichloropropane	25.0	25.6		ug/L		102	67 - 130
1,3,5-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 136
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130
1,3-Dichloropropane	25.0	23.5		ug/L		94	70 - 130
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
2,2-Dichloropropane	25.0	23.6		ug/L		95	68 - 141
2-Butanone (MEK)	25.0	20.7		ug/L		83	44 - 150
2-Chlorotoluene	25.0	22.8		ug/L		91	70 - 130
2-Hexanone	25.0	21.4		ug/L		86	10 - 150
4-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130
4-Isopropyltoluene	25.0	24.0		ug/L		96	70 - 132
4-Methyl-2-pentanone (MIBK)	25.0	21.9		ug/L		88	59 - 149
Acetone	25.0	22.1		ug/L		88	10 - 150
Benzene	25.0	24.7		ug/L		99	68 - 130
Bromobenzene	25.0	24.7		ug/L		99	70 - 130
Bromochloromethane	25.0	24.9		ug/L		99	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-209408/5
Matrix: Water
Analysis Batch: 209408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	25.0	24.3		ug/L		97	70 - 132
Bromoform	25.0	21.6		ug/L		86	60 - 148
Bromomethane	25.0	27.0		ug/L		108	64 - 139
Carbon disulfide	25.0	21.7		ug/L		87	52 - 136
Carbon tetrachloride	25.0	21.7		ug/L		87	60 - 150
Chlorobenzene	25.0	23.6		ug/L		94	70 - 130
Chloroethane	25.0	25.8		ug/L		103	64 - 135
Chloroform	25.0	24.1		ug/L		96	70 - 130
Chloromethane	25.0	26.9		ug/L		108	47 - 140
cis-1,2-Dichloroethene	25.0	25.9		ug/L		104	70 - 133
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 133
Dibromochloromethane	25.0	24.0		ug/L		96	69 - 145
Dibromomethane	25.0	22.8		ug/L		91	70 - 130
Dichlorodifluoromethane	25.0	23.1		ug/L		92	29 - 150
Ethylbenzene	25.0	23.6		ug/L		94	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	23.9		ug/L		96	60 - 136
Hexachlorobutadiene	25.0	25.9		ug/L		104	10 - 150
Isopropyl Ether (DIPE)	25.0	27.1		ug/L		108	58 - 139
Isopropylbenzene	25.0	23.1		ug/L		92	70 - 136
m,p-Xylene	50.0	47.9		ug/L		96	70 - 130
Methylene Chloride	25.0	27.9		ug/L		112	52 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	21.7		ug/L		87	63 - 131
Naphthalene	25.0	23.8		ug/L		95	60 - 140
n-Butylbenzene	25.0	23.4		ug/L		93	65 - 150
N-Propylbenzene	25.0	23.6		ug/L		94	67 - 139
o-Xylene	25.0	24.5		ug/L		98	70 - 130
sec-Butylbenzene	25.0	24.0		ug/L		96	70 - 138
Styrene	25.0	24.8		ug/L		99	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	22.3		ug/L		89	57 - 139
tert-Butyl alcohol (TBA)	125	137		ug/L		110	70 - 130
tert-Butylbenzene	25.0	22.9		ug/L		92	70 - 130
Tetrachloroethene	25.0	24.4		ug/L		97	70 - 130
Toluene	25.0	24.3		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	26.1		ug/L		105	70 - 130
trans-1,3-Dichloropropene	25.0	25.2		ug/L		101	70 - 132
Trichloroethene	25.0	26.0		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	25.7		ug/L		103	60 - 150
Vinyl chloride	25.0	24.1		ug/L		96	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
Toluene-d8 (Surr)	*101*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-60252-D-1 MS
Matrix: Water
Analysis Batch: 209408

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		25.0	23.9		ug/L		96	60 - 149
1,1,1-Trichloroethane	ND		25.0	21.4		ug/L		85	70 - 130
1,1,2,2-Tetrachloroethane	ND		25.0	22.5		ug/L		90	63 - 130
1,1,2-Trichloroethane	ND		25.0	23.8		ug/L		95	70 - 130
1,1-Dichloroethane	ND		25.0	23.6		ug/L		94	65 - 130
1,1-Dichloroethene	ND		25.0	24.2		ug/L		97	70 - 130
1,1-Dichloropropene	ND		25.0	21.2		ug/L		85	64 - 130
1,2,3-Trichlorobenzene	ND		25.0	24.8		ug/L		99	60 - 140
1,2,3-Trichloropropane	ND		25.0	20.3		ug/L		81	60 - 130
1,2,4-Trichlorobenzene	ND		25.0	24.8		ug/L		99	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	22.3		ug/L		89	70 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	17.3		ug/L		69	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	24.0		ug/L		96	70 - 131
1,2-Dichlorobenzene	ND		25.0	23.4		ug/L		94	70 - 130
1,2-Dichloroethane	ND		25.0	21.7		ug/L		87	56 - 146
1,2-Dichloropropane	ND		25.0	24.3		ug/L		97	69 - 130
1,3,5-Trimethylbenzene	ND		25.0	22.0		ug/L		88	70 - 130
1,3-Dichlorobenzene	ND		25.0	22.7		ug/L		91	70 - 130
1,3-Dichloropropane	ND		25.0	23.3		ug/L		93	70 - 130
1,4-Dichlorobenzene	ND		25.0	22.8		ug/L		91	70 - 130
2,2-Dichloropropane	ND		25.0	21.9		ug/L		87	69 - 138
2-Butanone (MEK)	ND		25.0	15.1		ug/L		60	48 - 140
2-Chlorotoluene	ND		25.0	21.3		ug/L		85	70 - 130
2-Hexanone	ND		25.0	17.7		ug/L		71	10 - 150
4-Chlorotoluene	ND		25.0	22.4		ug/L		90	70 - 130
4-Isopropyltoluene	ND		25.0	22.0		ug/L		88	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	21.5		ug/L		86	52 - 150
Acetone	ND		25.0	11.0		ug/L		44	10 - 150
Benzene	ND		25.0	23.1		ug/L		92	66 - 130
Bromobenzene	ND		25.0	23.3		ug/L		93	70 - 130
Bromochloromethane	ND		25.0	24.2		ug/L		97	70 - 130
Bromodichloromethane	ND		25.0	22.7		ug/L		91	70 - 138
Bromoform	ND		25.0	20.6		ug/L		82	59 - 150
Bromomethane	ND		25.0	24.8		ug/L		99	62 - 131
Carbon disulfide	ND		25.0	20.1		ug/L		80	49 - 140
Carbon tetrachloride	ND		25.0	19.7		ug/L		79	60 - 150
Chlorobenzene	ND		25.0	22.3		ug/L		89	70 - 130
Chloroethane	ND		25.0	24.4		ug/L		97	68 - 130
Chloroform	ND		25.0	23.2		ug/L		93	70 - 130
Chloromethane	ND		25.0	25.2		ug/L		101	39 - 144
cis-1,2-Dichloroethene	ND		25.0	24.9		ug/L		100	70 - 130
cis-1,3-Dichloropropene	ND		25.0	23.4		ug/L		94	70 - 133
Dibromochloromethane	ND		25.0	23.1		ug/L		92	70 - 148
Dibromomethane	ND		25.0	22.1		ug/L		88	70 - 130
Dichlorodifluoromethane	ND		25.0	19.8		ug/L		79	25 - 142
Ethylbenzene	ND		25.0	22.1		ug/L		89	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	23.3		ug/L		93	70 - 130
Hexachlorobutadiene	ND		25.0	23.8		ug/L		95	10 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-60252-D-1 MS
Matrix: Water
Analysis Batch: 209408

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl Ether (DIPE)	ND		25.0	25.2		ug/L		101	64 - 138
Isopropylbenzene	ND		25.0	21.5		ug/L		86	70 - 132
m,p-Xylene	ND		50.0	45.1		ug/L		90	70 - 133
Methylene Chloride	ND		25.0	26.4		ug/L		106	52 - 130
Methyl-t-Butyl Ether (MTBE)	ND		25.0	21.8		ug/L		87	70 - 130
Naphthalene	ND		25.0	23.1		ug/L		92	60 - 140
n-Butylbenzene	ND		25.0	21.3		ug/L		85	61 - 149
N-Propylbenzene	ND		25.0	21.7		ug/L		87	66 - 135
o-Xylene	ND		25.0	23.3		ug/L		93	70 - 133
sec-Butylbenzene	ND		25.0	21.9		ug/L		88	67 - 134
Styrene	ND		25.0	23.3		ug/L		93	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	22.3		ug/L		89	68 - 133
tert-Butyl alcohol (TBA)	ND		125	124		ug/L		99	70 - 130
tert-Butylbenzene	ND		25.0	21.1		ug/L		84	70 - 130
Tetrachloroethene	ND		25.0	22.4		ug/L		89	70 - 137
Toluene	ND		25.0	22.7		ug/L		91	70 - 130
trans-1,2-Dichloroethene	ND		25.0	24.5		ug/L		98	70 - 130
trans-1,3-Dichloropropene	ND		25.0	23.8		ug/L		95	70 - 138
Trichloroethene	ND		25.0	23.6		ug/L		94	70 - 130
Trichlorofluoromethane	ND		25.0	23.8		ug/L		95	60 - 150
Vinyl chloride	ND		25.0	22.3		ug/L		89	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
Toluene-d8 (Surr)	*102*		*80 - 128*

Lab Sample ID: 720-60252-D-1 MSD
Matrix: Water
Analysis Batch: 209408

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	23.9		ug/L		96	60 - 149	0	20
1,1,1-Trichloroethane	ND		25.0	21.1		ug/L		84	70 - 130	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	21.5		ug/L		86	63 - 130	5	30
1,1,2-Trichloroethane	ND		25.0	23.6		ug/L		94	70 - 130	1	25
1,1-Dichloroethane	ND		25.0	23.0		ug/L		92	65 - 130	2	20
1,1-Dichloroethene	ND		25.0	24.0		ug/L		96	70 - 130	1	20
1,1-Dichloropropene	ND		25.0	21.0		ug/L		84	64 - 130	1	20
1,2,3-Trichlorobenzene	ND		25.0	24.0		ug/L		96	60 - 140	3	20
1,2,3-Trichloropropane	ND		25.0	19.7		ug/L		79	60 - 130	3	30
1,2,4-Trichlorobenzene	ND		25.0	25.0		ug/L		100	60 - 140	1	20
1,2,4-Trimethylbenzene	ND		25.0	22.5		ug/L		90	70 - 130	1	25
1,2-Dibromo-3-Chloropropane	ND		25.0	15.7		ug/L		63	48 - 140	10	30
1,2-Dibromoethane (EDB)	ND		25.0	22.9		ug/L		92	70 - 131	4	25
1,2-Dichlorobenzene	ND		25.0	23.9		ug/L		95	70 - 130	2	20
1,2-Dichloroethane	ND		25.0	21.5		ug/L		86	56 - 146	1	20
1,2-Dichloropropane	ND		25.0	24.2		ug/L		97	69 - 130	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-60252-D-1 MSD
Matrix: Water
Analysis Batch: 209408

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene	ND		25.0	22.2		ug/L		89	70 - 130	1	20
1,3-Dichlorobenzene	ND		25.0	23.2		ug/L		93	70 - 130	2	20
1,3-Dichloropropane	ND		25.0	22.7		ug/L		91	70 - 130	3	25
1,4-Dichlorobenzene	ND		25.0	23.1		ug/L		93	70 - 130	1	20
2,2-Dichloropropane	ND		25.0	21.2		ug/L		85	69 - 138	3	25
2-Butanone (MEK)	ND		25.0	14.9		ug/L		59	48 - 140	2	40
2-Chlorotoluene	ND		25.0	21.5		ug/L		86	70 - 130	1	20
2-Hexanone	ND		25.0	16.4		ug/L		66	10 - 150	8	35
4-Chlorotoluene	ND		25.0	22.6		ug/L		90	70 - 130	1	20
4-Isopropyltoluene	ND		25.0	22.6		ug/L		90	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	19.4		ug/L		78	52 - 150	11	35
Acetone	ND		25.0	9.89	J	ug/L		40	10 - 150	10	35
Benzene	ND		25.0	23.0		ug/L		92	66 - 130	0	20
Bromobenzene	ND		25.0	23.5		ug/L		94	70 - 130	1	20
Bromochloromethane	ND		25.0	23.4		ug/L		94	70 - 130	3	25
Bromodichloromethane	ND		25.0	22.8		ug/L		91	70 - 138	1	20
Bromoform	ND		25.0	20.8		ug/L		83	59 - 150	1	25
Bromomethane	ND		25.0	25.3		ug/L		101	62 - 131	2	25
Carbon disulfide	ND		25.0	19.7		ug/L		79	49 - 140	2	20
Carbon tetrachloride	ND		25.0	20.1		ug/L		80	60 - 150	2	25
Chlorobenzene	ND		25.0	22.4		ug/L		90	70 - 130	1	20
Chloroethane	ND		25.0	23.9		ug/L		95	68 - 130	2	25
Chloroform	ND		25.0	22.9		ug/L		91	70 - 130	1	20
Chloromethane	ND		25.0	24.8		ug/L		99	39 - 144	1	25
cis-1,2-Dichloroethene	ND		25.0	24.3		ug/L		97	70 - 130	3	20
cis-1,3-Dichloropropene	ND		25.0	23.3		ug/L		93	70 - 133	1	20
Dibromochloromethane	ND		25.0	22.9		ug/L		92	70 - 148	1	25
Dibromomethane	ND		25.0	21.4		ug/L		86	70 - 130	3	25
Dichlorodifluoromethane	ND		25.0	19.0		ug/L		76	25 - 142	4	30
Ethylbenzene	ND		25.0	22.1		ug/L		88	70 - 130	0	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	22.6		ug/L		91	70 - 130	3	25
Hexachlorobutadiene	ND		25.0	23.9		ug/L		96	10 - 150	0	20
Isopropyl Ether (DIPE)	ND		25.0	25.5		ug/L		102	64 - 138	1	25
Isopropylbenzene	ND		25.0	21.6		ug/L		86	70 - 132	0	20
m,p-Xylene	ND		50.0	45.1		ug/L		90	70 - 133	0	25
Methylene Chloride	ND		25.0	26.1		ug/L		104	52 - 130	1	20
Methyl-t-Butyl Ether (MTBE)	ND		25.0	20.6		ug/L		83	70 - 130	5	25
Naphthalene	ND		25.0	22.2		ug/L		89	60 - 140	4	30
n-Butylbenzene	ND		25.0	21.7		ug/L		87	61 - 149	2	20
N-Propylbenzene	ND		25.0	22.0		ug/L		88	66 - 135	2	20
o-Xylene	ND		25.0	23.1		ug/L		92	70 - 133	1	20
sec-Butylbenzene	ND		25.0	22.3		ug/L		89	67 - 134	2	20
Styrene	ND		25.0	23.4		ug/L		94	29 - 150	0	35
Tert-amyl-methyl ether (TAME)	ND		25.0	21.5		ug/L		86	68 - 133	3	30
tert-Butyl alcohol (TBA)	ND		125	127		ug/L		102	70 - 130	3	25
tert-Butylbenzene	ND		25.0	21.6		ug/L		86	70 - 130	2	20
Tetrachloroethene	ND		25.0	22.4		ug/L		90	70 - 137	0	20
Toluene	ND		25.0	22.6		ug/L		90	70 - 130	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-60252-D-1 MSD
Matrix: Water
Analysis Batch: 209408

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	ND		25.0	24.0		ug/L		96	70 - 130	2	20
trans-1,3-Dichloropropene	ND		25.0	23.8		ug/L		95	70 - 138	0	25
Trichloroethene	ND		25.0	23.8		ug/L		95	70 - 130	1	20
Trichlorofluoromethane	ND		25.0	23.3		ug/L		93	60 - 150	2	25
Vinyl chloride	ND		25.0	21.9		ug/L		88	50 - 137	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
Toluene-d8 (Surr)	*101*		*80 - 128*

QC Association Summary

Client: AECOM, Inc.
Project/Site: Montrose - Torrance, 60288979.13.02

TestAmerica Job ID: 440-89327-1

GC/MS VOA

Analysis Batch: 209307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-89027-A-3 MS	Matrix Spike	Total/NA	Water	8260B	
440-89027-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-89327-1	TB-20140930	Total/NA	Water	8260B	
440-89327-2 - DL	SWL0049-20140930	Total/NA	Water	8260B	
LCS 440-209307/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-209307/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 209408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-89327-2	SWL0049-20140930	Total/NA	Water	8260B	
720-60252-D-1 MS	Matrix Spike	Total/NA	Water	8260B	
720-60252-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-209408/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-209408/4	Method Blank	Total/NA	Water	8260B	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Certification Summary

Client: AECOM, Inc.
Project/Site: Montrose - Torrance, 60288979.13.02

TestAmerica Job ID: 440-89327-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-15
Arizona	State Program	9	AZ0671	10-13-14 *
California	LA Cty Sanitation Districts	9	10256	01-31-15
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-15
Hawaii	State Program	9	N/A	01-29-15 *
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15
Northern Mariana Islands	State Program	9	MP0002	01-29-15
Oregon	NELAP	10	4005	01-29-15
USDA	Federal		P330-09-00080	06-06-15
USEPA UCMR	Federal	1	CA01531	01-31-15

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave , #100 Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E Cooley Dr , Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
9830 South 51st St , Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E Sunset Rd #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY

Client Name/Address:
AECOM
3995 Via Oro
Long Beach, CA 90810

Project / PO Number:
Montrose SuperFund Site/
60288979.13.02
Notes:

Project Manager:
Brian Dean

Sampler:
K.CarrGreen/T.Peterson

Phone Numbers:
562-213-4166– K.CarrGreen

Contact Katharine for all COC discrepancies

ANALYSIS REQUIRED

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOCs +FO – 8260B -									Special Instructions
TB-20140930	W	VOA	3	9-30-14	1500	HCL	X									
SWL0049-20140930	W	VOA	4	9-30-14	1514	HCL	X									**Multiple Dilutions**

440-89327 Chain of Custody

Relinquished By	Date/Time:	Received by	Date/Time:
	9-30-14 / 16:47	George Gerdes	9/30/14 1647
Relinquished By	Date/Time:	Received by	Date/Time:
George Gerdes	9/30/14 1835		
Relinquished By	Date/Time:	Received in Lab by	Date/Time:
			09/30/14 18:25

Turnaround Time: (check)
Same Day ____ 72 Hours ____
24 Hours ____ 5 days X
48 hours ____ normal ____
Sample Integrity: (Check)
Intact ___ On Ice: ✓ Custody Seal: ___

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

#65 2.94/2.1

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 440-89327-1

Login Number: 89327

List Source: TestAmerica Irvine

List Number: 1

Creator: Bernal, Janie M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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.	N/A	
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	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-91882-1
Client Project/Site: Montrose - Torrance, 60288979.12.06

For:
AECOM, Inc.
3995 Via Oro Ave
Long Beach, California 90810

Attn: Katharine Carr-Green

Authorized for release by:
11/7/2014 8:59:55 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 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.

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Sample Summary

Client: AECOM, Inc.
Project/Site: Montrose - Torrance, 60288979.12.06

TestAmerica Job ID: 440-91882-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-91882-1	SWL0049-20141031	Water	10/31/14 13:45	10/31/14 17:57
440-91882-2	UBAEW3-20141031	Water	10/31/14 14:00	10/31/14 17:57

Case Narrative

Client: AECOM, Inc.
Project/Site: Montrose - Torrance, 60288979.12.06

TestAmerica Job ID: 440-91882-1

Job ID: 440-91882-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-91882-1

Comments
No additional comments.

Receipt
The samples were received on 10/31/2014 5:57 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

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

Client Sample Results

Client: AECOM, Inc.
Project/Site: Montrose - Torrance, 60288979.12.06

TestAmerica Job ID: 440-91882-1

Client Sample ID: SWL0049-20141031

Lab Sample ID: 440-91882-1

Date Collected: 10/31/14 13:45

Matrix: Water

Date Received: 10/31/14 17:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100	45	ug/L			11/06/14 11:36	10
Benzene	**63**		5.0	2.5	ug/L			11/06/14 11:36	10
Bromobenzene	ND		5.0	2.5	ug/L			11/06/14 11:36	10
Bromochloromethane	ND		5.0	2.5	ug/L			11/06/14 11:36	10
Bromodichloromethane	ND		5.0	2.5	ug/L			11/06/14 11:36	10
Bromoform	ND		5.0	2.5	ug/L			11/06/14 11:36	10
Bromomethane	ND		10	2.5	ug/L			11/06/14 11:36	10
2-Butanone (MEK)	ND		100	25	ug/L			11/06/14 11:36	10
Carbon disulfide	ND		20	2.5	ug/L			11/06/14 11:36	10
Carbon tetrachloride	ND		5.0	2.5	ug/L			11/06/14 11:36	10
Chloroethane	ND		10	2.5	ug/L			11/06/14 11:36	10
Chloroform	ND		5.0	2.5	ug/L			11/06/14 11:36	10
Chloromethane	ND		10	2.5	ug/L			11/06/14 11:36	10
2-Chlorotoluene	ND		5.0	2.5	ug/L			11/06/14 11:36	10
4-Chlorotoluene	ND		5.0	2.5	ug/L			11/06/14 11:36	10
cis-1,2-Dichloroethene	**5.2**		5.0	2.5	ug/L			11/06/14 11:36	10
cis-1,3-Dichloropropene	ND		5.0	2.5	ug/L			11/06/14 11:36	10
Dibromochloromethane	ND		5.0	2.5	ug/L			11/06/14 11:36	10
1,2-Dibromo-3-Chloropropane	ND		50	5.0	ug/L			11/06/14 11:36	10
1,2-Dibromoethane (EDB)	ND		5.0	2.5	ug/L			11/06/14 11:36	10
Dibromomethane	ND		5.0	2.5	ug/L			11/06/14 11:36	10
1,2-Dichlorobenzene	ND		5.0	5.0	ug/L			11/06/14 11:36	10
1,3-Dichlorobenzene	ND		5.0	2.5	ug/L			11/06/14 11:36	10
1,4-Dichlorobenzene	**19**		5.0	2.5	ug/L			11/06/14 11:36	10
Dichlorodifluoromethane	ND		20	2.5	ug/L			11/06/14 11:36	10
1,1-Dichloroethane	ND		5.0	2.5	ug/L			11/06/14 11:36	10
1,2-Dichloroethane	**270**		5.0	2.5	ug/L			11/06/14 11:36	10
1,1-Dichloroethene	ND		5.0	2.5	ug/L			11/06/14 11:36	10
1,2-Dichloropropane	ND		5.0	2.5	ug/L			11/06/14 11:36	10
1,3-Dichloropropane	ND		5.0	2.5	ug/L			11/06/14 11:36	10
2,2-Dichloropropane	ND		5.0	2.5	ug/L			11/06/14 11:36	10
1,1-Dichloropropene	ND		5.0	2.5	ug/L			11/06/14 11:36	10
Ethylbenzene	**7.2**		5.0	2.5	ug/L			11/06/14 11:36	10
Ethyl-t-butyl ether (ETBE)	ND		5.0	2.5	ug/L			11/06/14 11:36	10
Hexachlorobutadiene	ND		10	2.5	ug/L			11/06/14 11:36	10
2-Hexanone	ND		100	25	ug/L			11/06/14 11:36	10
Isopropylbenzene	**7.9**		5.0	2.5	ug/L			11/06/14 11:36	10
Isopropyl Ether (DIPE)	ND		5.0	2.5	ug/L			11/06/14 11:36	10
4-Isopropyltoluene	ND		5.0	2.5	ug/L			11/06/14 11:36	10
Methylene Chloride	ND		20	8.8	ug/L			11/06/14 11:36	10
4-Methyl-2-pentanone (MIBK)	ND		100	25	ug/L			11/06/14 11:36	10
Methyl-t-Butyl Ether (MTBE)	ND		5.0	2.5	ug/L			11/06/14 11:36	10
m,p-Xylene	ND		10	5.0	ug/L			11/06/14 11:36	10
Naphthalene	ND		5.0	4.0	ug/L			11/06/14 11:36	10
n-Butylbenzene	**5.4**		5.0	4.0	ug/L			11/06/14 11:36	10
N-Propylbenzene	ND		5.0	2.5	ug/L			11/06/14 11:36	10
o-Xylene	ND		5.0	2.5	ug/L			11/06/14 11:36	10
sec-Butylbenzene	**6.5**		5.0	2.5	ug/L			11/06/14 11:36	10
Styrene	ND		5.0	2.5	ug/L			11/06/14 11:36	10

Client Sample Results

Client: AECOM, Inc.
Project/Site: Montrose - Torrance, 60288979.12.06

TestAmerica Job ID: 440-91882-1

Client Sample ID: SWL0049-20141031

Lab Sample ID: 440-91882-1

Date Collected: 10/31/14 13:45
Matrix: Water
Date Received: 10/31/14 17:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl-methyl ether (TAME)	ND		5.0	2.5	ug/L			11/06/14 11:36	10
tert-Butyl alcohol (TBA)	**52**	**J ID**	100	50	ug/L			11/06/14 11:36	10
tert-Butylbenzene	ND		5.0	2.5	ug/L			11/06/14 11:36	10
1,1,1,2-Tetrachloroethane	ND		10	2.5	ug/L			11/06/14 11:36	10
1,1,2,2-Tetrachloroethane	ND		5.0	2.5	ug/L			11/06/14 11:36	10
Tetrachloroethene	**150**		5.0	2.5	ug/L			11/06/14 11:36	10
Toluene	**2.5**	**J**	5.0	2.5	ug/L			11/06/14 11:36	10
trans-1,2-Dichloroethene	ND		5.0	2.5	ug/L			11/06/14 11:36	10
trans-1,3-Dichloropropene	ND		5.0	2.5	ug/L			11/06/14 11:36	10
1,2,3-Trichlorobenzene	ND		10	4.0	ug/L			11/06/14 11:36	10
1,2,4-Trichlorobenzene	**7.7**		5.0	4.0	ug/L			11/06/14 11:36	10
1,1,1-Trichloroethane	ND		5.0	2.5	ug/L			11/06/14 11:36	10
1,1,2-Trichloroethane	ND		5.0	2.5	ug/L			11/06/14 11:36	10
Trichloroethene	**120**		5.0	2.5	ug/L			11/06/14 11:36	10
Trichlorofluoromethane	ND		10	2.5	ug/L			11/06/14 11:36	10
1,2,3-Trichloropropane	ND		20	2.5	ug/L			11/06/14 11:36	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	5.0	ug/L			11/06/14 11:36	10
1,2,4-Trimethylbenzene	ND		5.0	2.5	ug/L			11/06/14 11:36	10
1,3,5-Trimethylbenzene	ND		5.0	2.5	ug/L			11/06/14 11:36	10
Vinyl chloride	ND		5.0	2.5	ug/L			11/06/14 11:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*		*11/06/14 11:36*	*10*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*11/06/14 11:36*	*10*
Toluene-d8 (Surr)	*120*		*80 - 128*		*11/06/14 11:36*	*10*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**6200**		100	50	ug/L			11/06/14 12:05	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*11/06/14 12:05*	*200*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*11/06/14 12:05*	*200*
Toluene-d8 (Surr)	*118*		*80 - 128*		*11/06/14 12:05*	*200*

Client Sample ID: UBAEW3-20141031

Lab Sample ID: 440-91882-2

Date Collected: 10/31/14 14:00
Matrix: Water
Date Received: 10/31/14 17:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		200	90	ug/L			11/06/14 12:35	20
Benzene	**110**		10	5.0	ug/L			11/06/14 12:35	20
Bromobenzene	ND		10	5.0	ug/L			11/06/14 12:35	20
Bromochloromethane	ND		10	5.0	ug/L			11/06/14 12:35	20
Bromodichloromethane	ND		10	5.0	ug/L			11/06/14 12:35	20
Bromoform	ND		10	5.0	ug/L			11/06/14 12:35	20
Bromomethane	ND		20	5.0	ug/L			11/06/14 12:35	20
2-Butanone (MEK)	ND		200	50	ug/L			11/06/14 12:35	20
Carbon disulfide	ND		40	5.0	ug/L			11/06/14 12:35	20

Client Sample ID: UBAEW3-20141031
Date Collected: 10/31/14 14:00
Date Received: 10/31/14 17:57

Lab Sample ID: 440-91882-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		10	5.0	ug/L			11/06/14 12:35	20
Chloroethane	ND		20	5.0	ug/L			11/06/14 12:35	20
Chloroform	**270**		10	5.0	ug/L			11/06/14 12:35	20
Chloromethane	ND		20	5.0	ug/L			11/06/14 12:35	20
2-Chlorotoluene	ND		10	5.0	ug/L			11/06/14 12:35	20
4-Chlorotoluene	ND		10	5.0	ug/L			11/06/14 12:35	20
cis-1,2-Dichloroethene	ND		10	5.0	ug/L			11/06/14 12:35	20
cis-1,3-Dichloropropene	ND		10	5.0	ug/L			11/06/14 12:35	20
Dibromochloromethane	ND		10	5.0	ug/L			11/06/14 12:35	20
1,2-Dibromo-3-Chloropropane	ND		100	10	ug/L			11/06/14 12:35	20
1,2-Dibromoethane (EDB)	ND		10	5.0	ug/L			11/06/14 12:35	20
Dibromomethane	ND		10	5.0	ug/L			11/06/14 12:35	20
1,2-Dichlorobenzene	**12**		10	10	ug/L			11/06/14 12:35	20
1,3-Dichlorobenzene	ND		10	5.0	ug/L			11/06/14 12:35	20
1,4-Dichlorobenzene	**41**		10	5.0	ug/L			11/06/14 12:35	20
Dichlorodifluoromethane	ND		40	5.0	ug/L			11/06/14 12:35	20
1,1-Dichloroethane	ND		10	5.0	ug/L			11/06/14 12:35	20
1,2-Dichloroethane	**14**		10	5.0	ug/L			11/06/14 12:35	20
1,1-Dichloroethene	ND		10	5.0	ug/L			11/06/14 12:35	20
1,2-Dichloropropane	ND		10	5.0	ug/L			11/06/14 12:35	20
1,3-Dichloropropane	ND		10	5.0	ug/L			11/06/14 12:35	20
2,2-Dichloropropane	ND		10	5.0	ug/L			11/06/14 12:35	20
1,1-Dichloropropene	ND		10	5.0	ug/L			11/06/14 12:35	20
Ethylbenzene	ND		10	5.0	ug/L			11/06/14 12:35	20
Ethyl-t-butyl ether (ETBE)	ND		10	5.0	ug/L			11/06/14 12:35	20
Hexachlorobutadiene	ND		20	5.0	ug/L			11/06/14 12:35	20
2-Hexanone	ND		200	50	ug/L			11/06/14 12:35	20
Isopropylbenzene	ND		10	5.0	ug/L			11/06/14 12:35	20
Isopropyl Ether (DIPE)	ND		10	5.0	ug/L			11/06/14 12:35	20
4-Isopropyltoluene	ND		10	5.0	ug/L			11/06/14 12:35	20
Methylene Chloride	ND		40	18	ug/L			11/06/14 12:35	20
4-Methyl-2-pentanone (MIBK)	ND		200	50	ug/L			11/06/14 12:35	20
Methyl-t-Butyl Ether (MTBE)	ND		10	5.0	ug/L			11/06/14 12:35	20
m,p-Xylene	ND		20	10	ug/L			11/06/14 12:35	20
Naphthalene	ND		10	8.0	ug/L			11/06/14 12:35	20
n-Butylbenzene	ND		10	8.0	ug/L			11/06/14 12:35	20
N-Propylbenzene	ND		10	5.0	ug/L			11/06/14 12:35	20
o-Xylene	ND		10	5.0	ug/L			11/06/14 12:35	20
sec-Butylbenzene	ND		10	5.0	ug/L			11/06/14 12:35	20
Styrene	ND		10	5.0	ug/L			11/06/14 12:35	20
Tert-amyl-methyl ether (TAME)	ND		10	5.0	ug/L			11/06/14 12:35	20
tert-Butyl alcohol (TBA)	ND		200	100	ug/L			11/06/14 12:35	20
tert-Butylbenzene	ND		10	5.0	ug/L			11/06/14 12:35	20
1,1,1,2-Tetrachloroethane	ND		20	5.0	ug/L			11/06/14 12:35	20
1,1,2,2-Tetrachloroethane	ND		10	5.0	ug/L			11/06/14 12:35	20
Tetrachloroethene	**320**		10	5.0	ug/L			11/06/14 12:35	20
Toluene	ND		10	5.0	ug/L			11/06/14 12:35	20
trans-1,2-Dichloroethene	ND		10	5.0	ug/L			11/06/14 12:35	20
trans-1,3-Dichloropropene	ND		10	5.0	ug/L			11/06/14 12:35	20

Client Sample ID: UBAEW3-20141031

Lab Sample ID: 440-91882-2

Date Collected: 10/31/14 14:00

Matrix: Water

Date Received: 10/31/14 17:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		20	8.0	ug/L			11/06/14 12:35	20
1,2,4-Trichlorobenzene	**13**		10	8.0	ug/L			11/06/14 12:35	20
1,1,1-Trichloroethane	ND		10	5.0	ug/L			11/06/14 12:35	20
1,1,2-Trichloroethane	ND		10	5.0	ug/L			11/06/14 12:35	20
Trichloroethene	**52**		10	5.0	ug/L			11/06/14 12:35	20
Trichlorofluoromethane	ND		20	5.0	ug/L			11/06/14 12:35	20
1,2,3-Trichloropropane	ND		40	5.0	ug/L			11/06/14 12:35	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	10	ug/L			11/06/14 12:35	20
1,2,4-Trimethylbenzene	ND		10	5.0	ug/L			11/06/14 12:35	20
1,3,5-Trimethylbenzene	ND		10	5.0	ug/L			11/06/14 12:35	20
Vinyl chloride	ND		10	5.0	ug/L			11/06/14 12:35	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*11/06/14 12:35*	*20*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*11/06/14 12:35*	*20*
Toluene-d8 (Surr)	*120*		*80 - 128*		*11/06/14 12:35*	*20*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**8600**		100	50	ug/L			11/06/14 13:04	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*11/06/14 13:04*	*200*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*11/06/14 13:04*	*200*
Toluene-d8 (Surr)	*116*		*80 - 128*		*11/06/14 13:04*	*200*

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**34**		1.0	0.50	ug/L		11/04/14 13:18	11/04/14 20:49	1

Method Summary

Client: AECOM, Inc.
Project/Site: Montrose - Torrance, 60288979.12.06

TestAmerica Job ID: 440-91882-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
6020	Metals (ICP/MS)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: AECOM, Inc.
Project/Site: Montrose - Torrance, 60288979.12.06

TestAmerica Job ID: 440-91882-1

Client Sample ID: SWL0049-20141031

Lab Sample ID: 440-91882-1

Date Collected: 10/31/14 13:45

Matrix: Water

Date Received: 10/31/14 17:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	10 mL	10 mL	216634	11/06/14 11:36	YK	TAL IRV
Total/NA	Analysis	8260B	DL	200	10 mL	10 mL	216634	11/06/14 12:05	YK	TAL IRV

Client Sample ID: UBAEW3-20141031

Lab Sample ID: 440-91882-2

Date Collected: 10/31/14 14:00

Matrix: Water

Date Received: 10/31/14 17:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	10 mL	10 mL	216634	11/06/14 12:35	YK	TAL IRV
Total/NA	Analysis	8260B	DL	200	10 mL	10 mL	216634	11/06/14 13:04	YK	TAL IRV
Dissolved	Filtration	FILTRATION			125 mL	125 mL	215914	11/03/14 13:11	SN	TAL IRV
Dissolved	Prep	3005A			25 mL	25 mL	216174	11/04/14 13:18	ND	TAL IRV
Dissolved	Analysis	6020		1	25 mL	25 mL	216314	11/04/14 20:49	NH	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-216634/3
Matrix: Water
Analysis Batch: 216634

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	4.5	ug/L			11/06/14 07:41	1
Benzene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Bromobenzene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Bromochloromethane	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Bromodichloromethane	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Bromoform	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Bromomethane	ND		1.0	0.25	ug/L			11/06/14 07:41	1
2-Butanone (MEK)	ND		10	2.5	ug/L			11/06/14 07:41	1
Carbon disulfide	ND		2.0	0.25	ug/L			11/06/14 07:41	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Chlorobenzene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Chloroethane	ND		1.0	0.25	ug/L			11/06/14 07:41	1
Chloroform	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Chloromethane	ND		1.0	0.25	ug/L			11/06/14 07:41	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Dibromochloromethane	ND		0.50	0.25	ug/L			11/06/14 07:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			11/06/14 07:41	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Dibromomethane	ND		0.50	0.25	ug/L			11/06/14 07:41	1
1,2-Dichlorobenzene	ND		0.50	0.50	ug/L			11/06/14 07:41	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Dichlorodifluoromethane	ND		2.0	0.25	ug/L			11/06/14 07:41	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			11/06/14 07:41	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			11/06/14 07:41	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			11/06/14 07:41	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			11/06/14 07:41	1
2,2-Dichloropropane	ND		0.50	0.25	ug/L			11/06/14 07:41	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Ethylbenzene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Hexachlorobutadiene	ND		1.0	0.25	ug/L			11/06/14 07:41	1
2-Hexanone	ND		10	2.5	ug/L			11/06/14 07:41	1
Isopropylbenzene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Isopropyl Ether (DIPE)	ND		0.50	0.25	ug/L			11/06/14 07:41	1
4-Isopropyltoluene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Methylene Chloride	ND		2.0	0.88	ug/L			11/06/14 07:41	1
4-Methyl-2-pentanone (MIBK)	ND		10	2.5	ug/L			11/06/14 07:41	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			11/06/14 07:41	1
m,p-Xylene	ND		1.0	0.50	ug/L			11/06/14 07:41	1
Naphthalene	ND		0.50	0.40	ug/L			11/06/14 07:41	1
n-Butylbenzene	ND		0.50	0.40	ug/L			11/06/14 07:41	1
N-Propylbenzene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
o-Xylene	ND		0.50	0.25	ug/L			11/06/14 07:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-216634/3
Matrix: Water
Analysis Batch: 216634

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Styrene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Tert-amyl-methyl ether (TAME)	ND		0.50	0.25	ug/L			11/06/14 07:41	1
tert-Butyl alcohol (TBA)	ND		10	5.0	ug/L			11/06/14 07:41	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L			11/06/14 07:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Tetrachloroethene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Toluene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			11/06/14 07:41	1
1,2,4-Trichlorobenzene	ND		0.50	0.40	ug/L			11/06/14 07:41	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			11/06/14 07:41	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Trichloroethene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			11/06/14 07:41	1
1,2,3-Trichloropropane	ND		2.0	0.25	ug/L			11/06/14 07:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5	0.50	ug/L			11/06/14 07:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			11/06/14 07:41	1
Vinyl chloride	ND		0.50	0.25	ug/L			11/06/14 07:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*11/06/14 07:41*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*11/06/14 07:41*	*1*
Toluene-d8 (Surr)	*117*		*80 - 128*		*11/06/14 07:41*	*1*

Lab Sample ID: LCS 440-216634/4
Matrix: Water
Analysis Batch: 216634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	25.6		ug/L		102	10 - 150
Benzene	25.0	25.0		ug/L		100	68 - 130
Bromobenzene	25.0	26.2		ug/L		105	70 - 130
Bromochloromethane	25.0	27.9		ug/L		112	70 - 130
Bromodichloromethane	25.0	29.2		ug/L		117	70 - 132
Bromoform	25.0	24.1		ug/L		96	60 - 148
Bromomethane	25.0	28.2		ug/L		113	64 - 139
2-Butanone (MEK)	25.0	28.3		ug/L		113	44 - 150
Carbon disulfide	25.0	25.6		ug/L		103	52 - 136
Carbon tetrachloride	25.0	29.0		ug/L		116	60 - 150
Chlorobenzene	25.0	24.8		ug/L		99	70 - 130
Chloroethane	25.0	27.1		ug/L		108	64 - 135
Chloroform	25.0	27.0		ug/L		108	70 - 130
Chloromethane	25.0	22.9		ug/L		92	47 - 140
2-Chlorotoluene	25.0	24.7		ug/L		99	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-216634/4
Matrix: Water
Analysis Batch: 216634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	25.0	24.4		ug/L		97	70 - 130
cis-1,2-Dichloroethene	25.0	27.1		ug/L		108	70 - 133
cis-1,3-Dichloropropene	25.0	29.4		ug/L		117	70 - 133
Dibromochloromethane	25.0	26.9		ug/L		107	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	25.2		ug/L		101	52 - 140
1,2-Dibromoethane (EDB)	25.0	27.8		ug/L		111	70 - 130
Dibromomethane	25.0	28.3		ug/L		113	70 - 130
1,2-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130
1,3-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130
1,4-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
Dichlorodifluoromethane	25.0	21.6		ug/L		87	29 - 150
1,1-Dichloroethane	25.0	27.0		ug/L		108	64 - 130
1,2-Dichloroethane	25.0	27.0		ug/L		108	57 - 138
1,1-Dichloroethene	25.0	25.6		ug/L		103	70 - 130
1,2-Dichloropropane	25.0	26.5		ug/L		106	67 - 130
1,3-Dichloropropane	25.0	26.5		ug/L		106	70 - 130
2,2-Dichloropropane	25.0	27.1		ug/L		108	68 - 141
1,1-Dichloropropene	25.0	29.0		ug/L		116	70 - 130
Ethylbenzene	25.0	24.4		ug/L		98	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	25.8		ug/L		103	60 - 136
Hexachlorobutadiene	25.0	26.0		ug/L		104	10 - 150
2-Hexanone	25.0	28.7		ug/L		115	10 - 150
Isopropylbenzene	25.0	25.4		ug/L		101	70 - 136
Isopropyl Ether (DIPE)	25.0	25.8		ug/L		103	58 - 139
4-Isopropyltoluene	25.0	25.5		ug/L		102	70 - 132
Methylene Chloride	25.0	26.1		ug/L		104	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	29.1		ug/L		116	59 - 149
Methyl-t-Butyl Ether (MTBE)	25.0	26.7		ug/L		107	63 - 131
m,p-Xylene	25.0	26.0		ug/L		104	70 - 130
Naphthalene	25.0	25.7		ug/L		103	60 - 140
n-Butylbenzene	25.0	25.6		ug/L		103	65 - 150
N-Propylbenzene	25.0	24.5		ug/L		98	67 - 139
o-Xylene	25.0	26.0		ug/L		104	70 - 130
sec-Butylbenzene	25.0	25.0		ug/L		100	70 - 138
Styrene	25.0	26.8		ug/L		107	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	25.6		ug/L		102	57 - 139
tert-Butyl alcohol (TBA)	250	279		ug/L		112	70 - 130
tert-Butylbenzene	25.0	25.4		ug/L		102	70 - 130
1,1,1,2-Tetrachloroethane	25.0	28.8		ug/L		115	60 - 141
1,1,2,2-Tetrachloroethane	25.0	27.4		ug/L		109	63 - 130
Tetrachloroethene	25.0	25.8		ug/L		103	70 - 130
Toluene	25.0	24.8		ug/L		99	70 - 130
trans-1,2-Dichloroethene	25.0	26.8		ug/L		107	70 - 130
trans-1,3-Dichloropropene	25.0	32.5		ug/L		130	70 - 132
1,2,3-Trichlorobenzene	25.0	26.8		ug/L		107	60 - 140
1,2,4-Trichlorobenzene	25.0	26.9		ug/L		108	60 - 140
1,1,1-Trichloroethane	25.0	27.1		ug/L		108	70 - 130
1,1,2-Trichloroethane	25.0	26.8		ug/L		107	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-216634/4
Matrix: Water
Analysis Batch: 216634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	25.0	26.3		ug/L		105	70 - 130
Trichlorofluoromethane	25.0	25.3		ug/L		101	60 - 150
1,2,3-Trichloropropane	25.0	27.1		ug/L		108	63 - 130
1,2,4-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 135
1,3,5-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 136
Vinyl chloride	25.0	27.7		ug/L		111	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Dibromofluoromethane (Surr)	*111*		*76 - 132*
Toluene-d8 (Surr)	*113*		*80 - 128*

Lab Sample ID: 440-92140-G-4 MS
Matrix: Water
Analysis Batch: 216634

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	25.3		ug/L		101	10 - 150
Benzene	ND		25.0	25.1		ug/L		100	66 - 130
Bromobenzene	ND		25.0	26.3		ug/L		105	70 - 130
Bromochloromethane	ND		25.0	28.2		ug/L		113	70 - 130
Bromodichloromethane	ND		25.0	29.7		ug/L		119	70 - 138
Bromoform	ND		25.0	24.1		ug/L		96	59 - 150
Bromomethane	ND		25.0	25.3		ug/L		101	62 - 131
2-Butanone (MEK)	ND		25.0	28.1		ug/L		113	48 - 140
Carbon disulfide	ND		25.0	24.4		ug/L		98	49 - 140
Carbon tetrachloride	ND		25.0	28.9		ug/L		116	60 - 150
Chlorobenzene	ND		25.0	25.4		ug/L		102	70 - 130
Chloroethane	ND		25.0	25.2		ug/L		101	68 - 130
Chloroform	ND		25.0	27.3		ug/L		109	70 - 130
Chloromethane	ND		25.0	21.7		ug/L		87	39 - 144
2-Chlorotoluene	ND		25.0	25.4		ug/L		102	70 - 130
4-Chlorotoluene	ND		25.0	25.4		ug/L		102	70 - 130
cis-1,2-Dichloroethene	ND		25.0	26.4		ug/L		106	70 - 130
cis-1,3-Dichloropropene	ND		25.0	29.6		ug/L		118	70 - 133
Dibromochloromethane	ND		25.0	27.6		ug/L		110	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	25.0		ug/L		100	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	28.1		ug/L		112	70 - 131
Dibromomethane	ND		25.0	29.3		ug/L		117	70 - 130
1,2-Dichlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130
1,3-Dichlorobenzene	ND		25.0	26.3		ug/L		105	70 - 130
1,4-Dichlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130
Dichlorodifluoromethane	ND		25.0	17.7		ug/L		71	25 - 142
1,1-Dichloroethane	ND		25.0	27.1		ug/L		108	65 - 130
1,2-Dichloroethane	ND		25.0	27.6		ug/L		110	56 - 146
1,1-Dichloroethene	ND		25.0	24.9		ug/L		99	70 - 130
1,2-Dichloropropane	ND		25.0	26.8		ug/L		107	69 - 130
1,3-Dichloropropane	ND		25.0	26.9		ug/L		108	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-92140-G-4 MS
Matrix: Water
Analysis Batch: 216634

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		25.0	28.1		ug/L		113	69 - 138
1,1-Dichloropropene	ND		25.0	28.7		ug/L		115	64 - 130
Ethylbenzene	ND		25.0	25.0		ug/L		100	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	26.4		ug/L		106	70 - 130
Hexachlorobutadiene	ND		25.0	26.6		ug/L		107	10 - 150
2-Hexanone	ND		25.0	28.3		ug/L		113	10 - 150
Isopropylbenzene	ND		25.0	25.7		ug/L		103	70 - 132
Isopropyl Ether (DIPE)	ND		25.0	26.8		ug/L		107	64 - 138
4-Isopropyltoluene	ND		25.0	25.8		ug/L		103	70 - 130
Methylene Chloride	ND		25.0	25.9		ug/L		104	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	29.0		ug/L		116	52 - 150
Methyl-t-Butyl Ether (MTBE)	ND		25.0	27.3		ug/L		109	70 - 130
m,p-Xylene	ND		25.0	26.4		ug/L		106	70 - 133
Naphthalene	ND		25.0	25.9		ug/L		103	60 - 140
n-Butylbenzene	ND		25.0	26.3		ug/L		105	61 - 149
N-Propylbenzene	ND		25.0	24.9		ug/L		100	66 - 135
o-Xylene	ND		25.0	26.5		ug/L		106	70 - 133
sec-Butylbenzene	ND		25.0	25.5		ug/L		102	67 - 134
Styrene	ND		25.0	27.1		ug/L		109	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	26.5		ug/L		106	68 - 133
tert-Butyl alcohol (TBA)	ND		250	279		ug/L		112	70 - 130
tert-Butylbenzene	ND		25.0	25.7		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	29.2		ug/L		117	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	27.7		ug/L		111	63 - 130
Tetrachloroethene	ND		25.0	26.2		ug/L		105	70 - 137
Toluene	ND		25.0	25.2		ug/L		101	70 - 130
trans-1,2-Dichloroethene	ND		25.0	26.6		ug/L		106	70 - 130
trans-1,3-Dichloropropene	ND		25.0	33.0		ug/L		132	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	27.1		ug/L		108	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	27.7		ug/L		111	60 - 140
1,1,1-Trichloroethane	ND		25.0	27.5		ug/L		110	70 - 130
1,1,2-Trichloroethane	ND		25.0	27.6		ug/L		111	70 - 130
Trichloroethene	ND		25.0	26.9		ug/L		108	70 - 130
Trichlorofluoromethane	ND		25.0	24.9		ug/L		99	60 - 150
1,2,3-Trichloropropane	ND		25.0	27.1		ug/L		108	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	25.6		ug/L		102	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	25.7		ug/L		103	70 - 130
Vinyl chloride	ND		25.0	26.5		ug/L		106	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*112*		*76 - 132*
Toluene-d8 (Surr)	*114*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-92140-G-4 MSD
Matrix: Water
Analysis Batch: 216634

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	24.7		ug/L		99	10 - 150	2	35
Benzene	ND		25.0	24.3		ug/L		97	66 - 130	3	20
Bromobenzene	ND		25.0	25.9		ug/L		104	70 - 130	2	20
Bromochloromethane	ND		25.0	27.2		ug/L		109	70 - 130	3	25
Bromodichloromethane	ND		25.0	29.4		ug/L		117	70 - 138	1	20
Bromoform	ND		25.0	24.5		ug/L		98	59 - 150	2	25
Bromomethane	ND		25.0	25.8		ug/L		103	62 - 131	2	25
2-Butanone (MEK)	ND		25.0	27.5		ug/L		110	48 - 140	2	40
Carbon disulfide	ND		25.0	23.7		ug/L		95	49 - 140	3	20
Carbon tetrachloride	ND		25.0	28.5		ug/L		114	60 - 150	2	25
Chlorobenzene	ND		25.0	25.1		ug/L		100	70 - 130	1	20
Chloroethane	ND		25.0	24.9		ug/L		100	68 - 130	1	25
Chloroform	ND		25.0	26.5		ug/L		106	70 - 130	3	20
Chloromethane	ND		25.0	21.5		ug/L		86	39 - 144	1	25
2-Chlorotoluene	ND		25.0	24.3		ug/L		97	70 - 130	4	20
4-Chlorotoluene	ND		25.0	24.3		ug/L		97	70 - 130	5	20
cis-1,2-Dichloroethene	ND		25.0	25.9		ug/L		104	70 - 130	2	20
cis-1,3-Dichloropropene	ND		25.0	29.4		ug/L		118	70 - 133	1	20
Dibromochloromethane	ND		25.0	27.3		ug/L		109	70 - 148	1	25
1,2-Dibromo-3-Chloropropane	ND		25.0	24.8		ug/L		99	48 - 140	1	30
1,2-Dibromoethane (EDB)	ND		25.0	27.8		ug/L		111	70 - 131	1	25
Dibromomethane	ND		25.0	27.9		ug/L		112	70 - 130	5	25
1,2-Dichlorobenzene	ND		25.0	25.9		ug/L		104	70 - 130	3	20
1,3-Dichlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130	2	20
1,4-Dichlorobenzene	ND		25.0	25.8		ug/L		103	70 - 130	4	20
Dichlorodifluoromethane	ND		25.0	15.8		ug/L		63	25 - 142	12	30
1,1-Dichloroethane	ND		25.0	26.4		ug/L		106	65 - 130	2	20
1,2-Dichloroethane	ND		25.0	27.1		ug/L		109	56 - 146	2	20
1,1-Dichloroethene	ND		25.0	24.5		ug/L		98	70 - 130	1	20
1,2-Dichloropropane	ND		25.0	25.6		ug/L		102	69 - 130	4	20
1,3-Dichloropropane	ND		25.0	26.9		ug/L		108	70 - 130	0	25
2,2-Dichloropropane	ND		25.0	26.6		ug/L		106	69 - 138	6	25
1,1-Dichloropropene	ND		25.0	28.2		ug/L		113	64 - 130	2	20
Ethylbenzene	ND		25.0	24.5		ug/L		98	70 - 130	2	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	25.9		ug/L		104	70 - 130	2	25
Hexachlorobutadiene	ND		25.0	25.8		ug/L		103	10 - 150	3	20
2-Hexanone	ND		25.0	28.2		ug/L		113	10 - 150	0	35
Isopropylbenzene	ND		25.0	25.1		ug/L		100	70 - 132	2	20
Isopropyl Ether (DIPE)	ND		25.0	25.7		ug/L		103	64 - 138	4	25
4-Isopropyltoluene	ND		25.0	25.2		ug/L		101	70 - 130	2	20
Methylene Chloride	ND		25.0	25.1		ug/L		100	52 - 130	3	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	29.7		ug/L		119	52 - 150	2	35
Methyl-t-Butyl Ether (MTBE)	ND		25.0	26.8		ug/L		107	70 - 130	2	25
m,p-Xylene	ND		25.0	25.9		ug/L		104	70 - 133	2	25
Naphthalene	ND		25.0	25.6		ug/L		102	60 - 140	1	30
n-Butylbenzene	ND		25.0	25.2		ug/L		101	61 - 149	4	20
N-Propylbenzene	ND		25.0	24.1		ug/L		97	66 - 135	3	20
o-Xylene	ND		25.0	25.9		ug/L		104	70 - 133	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-92140-G-4 MSD
Matrix: Water
Analysis Batch: 216634

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	24.6		ug/L		99	67 - 134	3	20
Styrene	ND		25.0	26.6		ug/L		106	29 - 150	2	35
Tert-amyl-methyl ether (TAME)	ND		25.0	25.8		ug/L		103	68 - 133	3	30
tert-Butyl alcohol (TBA)	ND		250	279		ug/L		112	70 - 130	0	25
tert-Butylbenzene	ND		25.0	25.1		ug/L		101	70 - 130	2	20
1,1,1,2-Tetrachloroethane	ND		25.0	28.9		ug/L		116	60 - 149	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	27.3		ug/L		109	63 - 130	1	30
Tetrachloroethene	ND		25.0	25.8		ug/L		103	70 - 137	2	20
Toluene	ND		25.0	24.7		ug/L		99	70 - 130	2	20
trans-1,2-Dichloroethene	ND		25.0	25.3		ug/L		101	70 - 130	5	20
trans-1,3-Dichloropropene	ND		25.0	33.0		ug/L		132	70 - 138	0	25
1,2,3-Trichlorobenzene	ND		25.0	26.4		ug/L		106	60 - 140	3	20
1,2,4-Trichlorobenzene	ND		25.0	27.1		ug/L		108	60 - 140	2	20
1,1,1-Trichloroethane	ND		25.0	26.6		ug/L		106	70 - 130	3	20
1,1,2-Trichloroethane	ND		25.0	27.2		ug/L		109	70 - 130	2	25
Trichloroethene	ND		25.0	25.7		ug/L		103	70 - 130	4	20
Trichlorofluoromethane	ND		25.0	23.6		ug/L		95	60 - 150	5	25
1,2,3-Trichloropropane	ND		25.0	27.4		ug/L		110	60 - 130	1	30
1,2,4-Trimethylbenzene	ND		25.0	24.8		ug/L		99	70 - 130	3	25
1,3,5-Trimethylbenzene	ND		25.0	25.0		ug/L		100	70 - 130	3	20
Vinyl chloride	ND		25.0	25.2		ug/L		101	50 - 137	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Dibromofluoromethane (Surr)	*112*		*76 - 132*
Toluene-d8 (Surr)	*116*		*80 - 128*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 440-215914/1-B
Matrix: Water
Analysis Batch: 216314

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 216174

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.50	ug/L		11/04/14 13:18	11/04/14 20:32	1

Lab Sample ID: LCS 440-215914/2-B
Matrix: Water
Analysis Batch: 216314

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 216174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	80.0	82.9		ug/L		104	80 - 120

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 440-91909-C-1-C MS ^5 — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 216314 — **Prep Batch: 216174**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	ND		80.0	88.2		ug/L		110	75 - 125		

Lab Sample ID: 440-91909-C-1-D MSD ^5 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 216314 — **Prep Batch: 216174**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		80.0	78.8		ug/L		99	75 - 125	11	20

QC Association Summary

Client: AECOM, Inc.
Project/Site: Montrose - Torrance, 60288979.12.06

TestAmerica Job ID: 440-91882-1

GC/MS VOA

Analysis Batch: 216634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-91882-1	SWL0049-20141031	Total/NA	Water	8260B	
440-91882-1 - DL	SWL0049-20141031	Total/NA	Water	8260B	
440-91882-2	UBAEW3-20141031	Total/NA	Water	8260B	
440-91882-2 - DL	UBAEW3-20141031	Total/NA	Water	8260B	
440-92140-G-4 MS	Matrix Spike	Total/NA	Water	8260B	
440-92140-G-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-216634/4	Lab Control Sample	Total/NA	Water	8260B	
MB 440-216634/3	Method Blank	Total/NA	Water	8260B	

Metals

Filtration Batch: 215914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-91882-2	UBAEW3-20141031	Dissolved	Water	FILTRATION	
440-91909-C-1-C MS ^5	Matrix Spike	Dissolved	Water	FILTRATION	
440-91909-C-1-D MSD ^5	Matrix Spike Duplicate	Dissolved	Water	FILTRATION	
LCS 440-215914/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
MB 440-215914/1-B	Method Blank	Dissolved	Water	FILTRATION	

Prep Batch: 216174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-91882-2	UBAEW3-20141031	Dissolved	Water	3005A	215914
440-91909-C-1-C MS ^5	Matrix Spike	Dissolved	Water	3005A	215914
440-91909-C-1-D MSD ^5	Matrix Spike Duplicate	Dissolved	Water	3005A	215914
LCS 440-215914/2-B	Lab Control Sample	Dissolved	Water	3005A	215914
MB 440-215914/1-B	Method Blank	Dissolved	Water	3005A	215914

Analysis Batch: 216314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-91882-2	UBAEW3-20141031	Dissolved	Water	6020	216174
440-91909-C-1-C MS ^5	Matrix Spike	Dissolved	Water	6020	216174
440-91909-C-1-D MSD ^5	Matrix Spike Duplicate	Dissolved	Water	6020	216174
LCS 440-215914/2-B	Lab Control Sample	Dissolved	Water	6020	216174
MB 440-215914/1-B	Method Blank	Dissolved	Water	6020	216174

Definitions/Glossary

Client: AECOM, Inc.
Project/Site: Montrose - Torrance, 60288979.12.06

TestAmerica Job ID: 440-91882-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
ID	Analyte identified by RT & presence of single mass ion
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Certification Summary

Client: AECOM, Inc.
Project/Site: Montrose - Torrance, 60288979.12.06

TestAmerica Job ID: 440-91882-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-15
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-15
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-15
Hawaii	State Program	9	N/A	01-29-15 *
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15
Northern Mariana Islands	State Program	9	MP0002	01-29-15
Oregon	NELAP	10	4005	01-29-15
USDA	Federal		P330-09-00080	06-06-15
USEPA UCMR	Federal	1	CA01531	01-31-15

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave., #100 Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E Sunset Rd #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY

Client Name/Address:
AECOM
3995 Via Oro
Long Beach, CA 90810

Project / PO Number:
Montrose Superfund – 60288979.12.06
Notes:

Project Manager:
Katharine Carr Green

Sampler:
T. Peterson

Phone Numbers:
562-213-4166– K.CarrGreen

Contact Katharine for all COC discrepancies

ANALYSIS REQUIRED

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOCs +FO – 8260B -	Dissolved As	T							Special Instructions
SWL0049-20141031	GW	VOA	4	10-31-2014	13:45	HCL	X									MULTIPLE DILUTIONS
UBAEW3-20141031	GW	VOA	4	10-31-14	14:00	HCL	X									MULTIPLE DILUTIONS
UBAEW3-20141031	GW	POLY	1	10-31-14	14:00	TEMP		X								

440-91882 Chain of Custody

Relinquished By	Date/Time:	Received by	Date/Time:
[signature]	10-31-14 14:30	[signature] George Georlow	10/31/14 1430
[signature] George Georlow	10/31/14 1700	Shafiq Nabi	10/31/14 1700
Shafiq Nabi	10/31/14 1757	Received in Lab by: Brent Jackson	10/31/14 17:57

Turnaround Time: (check)
Same Day ____ 72 Hours ____
24 Hours ____ 5 days X
48 hours ____ normal ____

Sample Integrity: (Check)
Intact ✓ On Ice: ✓ Custody Seal: ___

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

3.3/2.5 °C
12-65

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 440-91882-1

Login Number: 91882

List Source: TestAmerica Irvine

List Number: 1

Creator: Blocker, Kristina M

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

APPENDIX C

DATA QUALITY ASSESSMENT AND DATA VALIDATION REPORT

DATA QUALITY ASSESSMENT

This data quality assessment section discusses the quality and usability of the definitive-level analytical data for the groundwater samples collected during sampling conducted by AECOM from 3 through 30 September, 2014 and 13 January 2015.

Groundwater and associated field QC samples were analyzed for volatile organic compounds (VOCs) and/or fuel oxygenates (FOs) by EPA Method SW8260B and 4-chlorobenzenesulfonic acid (pCBSA) by Modified EPA Method 314.0 (E314.0-MOD). The analyses were performed by Eurofins Calscience, Inc. of Garden Grove, California (Calscience) with one sample and field QC sample analyzed for VOCs by EAP Method SW8260B by TestAmerica Laboratories, Inc., of Irvine, California (TAMI). The analyses were performed in conformance with the requirements of *SW846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods* (EPA 1986 and Updates) and *Methods for the Determination of Inorganic Substances in Environmental Samples* EPA/600/R-93/100, 1993 and Updates).

The analytical data were provided in U.S. EPA Level III (Tier 2) format, with the data package for one sample delivery groups (SDG) provided in U.S. EPA Level IV (Tier 3) format. Level III data packages included the case narratives, completed Chain-of-Custody (COC) documentation, laboratory analysis results reporting forms, and quality control (QC) summary forms for all required QC. Level IV data packages included the Level III data plus the raw data generated from each analytical method performed, such as sample preparation sheets, instrument run logs, calibration data, chromatograms, and instrument generated quantitation reports.

Tier 2 (EPA Level III) validation was performed on 100% of the environmental samples collected for this data set, with Tier 3 (EPA Level IV) validation performed at a frequency greater than 10% for the samples and methods specified in Table C-1, below.

For the Level 3 validation, data were validated for all QC parameters specified in the methods, and qualifiers were applied to all associated samples, as applicable. For the Level 4 validation, chromatograms and mass spectra were reviewed to confirm detections, and calculations were performed for chlorobenzene by EPA Method SW8260B and pCBSA by Method E314.0-MOD. Level IV validation was performed for Methods SW8260B for trip blank TB-20140909 (14-09-0658-01) for VOCs; Methods SW8260B and E314.0-MOD for samples EB-20140909 (14-09-0658-02), MW-19-20140909 (14-09-

0658-03), MW-22-20140909 (14-09-0658-04), MW-16-20140909 (14-09-0658-05), G-25-20140909 (14-09-0658-06), BF-5-20140909 (14-09-0658-07), MW-6-20140909 (14-09-0658-08), G-4-20140909 (14-09-0658-09), G-8-20140909 (14-09-0658-10), G-3-20140909 (14-09-0658-11), MW-11-20140909 (14-09-0658-12), G-1-20140909 (14-09-0658-13), G-100-20140909 (14-09-0658-14), MW-12-20140909 (14-09-0658-16), BF-11-20140909 (14-09-0658-17), MW-4-20140909 (14-09-0658-18), and BF-4-20140909 (14-09-0658-19); and Method E314.0-MOD for sample G-02WC-20140909 (14-09-0658-15), with calculations to verify initial calibrations, calibration verifications, reported concentrations, and percent recoveries and relative percent differences for all samples and associated batch QC, and to verify that appropriate quantitation and stoichiometric corrections were applied.

A total of 106 groundwater samples and 9 field duplicate samples with 12 associated equipment blanks and 13 trip blanks from Montrose Superfund Site were analyzed by Eurofins Calscience, Inc. of Garden Grove, California (Calscience). Sample analyses were for volatile organic compounds (VOCs) and/or fuel oxygenates (FOs) by EPA Method SW8260B and 4-chlorobenzenesulfonic acid (p-chlorobenzenesulfonic acid [pCBSA]) by Modified EPA Method 314.0 (E314.0-MOD). One groundwater sample and 1 trip blank from Montrose Superfund Site were analyzed by TestAmerica Laboratories, Inc., of Irvine, California (TAMI). Sample analyses were for volatile organic compounds (VOCs) by EPA Method SW8260B. The samples, matrices, and analytical parameters for which each sample was analyzed and the levels at which they were validated are identified in Table C-1:

Table C-1 September 2014 Groundwater Analytical Sample Summary

SDG	Lab ID	Field Sample ID	Matrix/ Sample Type	Date Sampled	SW8260B VOCs	SW8260B FOs	E314.0-MOD pCBSA
14-09-0173	01	TB-20140903	TB	9/3/2014	Y		
14-09-0173	02	EB-20140903	EB	9/3/2014	Y		Y
14-09-0173	03	BF-28-20140903	N	9/3/2014	Y		Y
14-09-0173	04	BF-27-20140903	N	9/3/2014	Y[(a)]		Y[(a)]
14-09-0173	05	SWL0027-20140903	N	9/3/2014	Y		Y
14-09-0173	06	G-18-20140903	N	9/3/2014	Y		Y
14-09-0173	07	SWL0026-20140903	N	9/3/2014	Y		Y
14-09-0173	08	G-19A-20140903	N	9/3/2014	Y		Y
14-09-0173	09	BF-22-20140903	N	9/3/2014	Y		Y
14-09-0173	10	G-28-20140903	N	9/3/2014	Y		Y
14-09-0312	01	TB-20140904	TB	9/4/2014	Y		
14-09-0312	02	EB-20140904	EB	9/4/2014	Y		Y

SDG	Lab ID	Field Sample ID	Matrix/ Sample Type	Date Sampled	SW8260B VOCs	SW8260B FOs	E314.0-MOD pCBSA
14-09-0312	03	G-32-20140904	N	9/4/2014	Y		Y
14-09-0312	04	G-27-20140904	N	9/4/2014	Y[a]		Y[a]
14-09-0312	05	BF-25-20140904	N	9/4/2014	Y		Y
14-09-0312	06	G-35-20140904	N	9/4/2014	Y		Y
14-09-0312	07	G-29-20140904	N	9/4/2014	Y		Y
14-09-0312	08	MW-26-20140904	N	9/4/2014	Y[a]		Y[a]
14-09-0312	09	BF-10-20140904	N	9/4/2014	Y		Y
14-09-0312	10	G-9-20140904	N	9/4/2014	Y		Y
14-09-0312	11	G-26-20140904	N	9/4/2014	Y[b]		Y[b]
14-09-0312	12	G-2600-20140904	FD	9/4/2014	Y[b]		Y[b]
14-09-0312	13	BF-21-20140904	N	9/4/2014	Y		Y
14-09-0312	14	G-24-20140904	N	9/4/2014	Y		Y
14-09-0312	15	BF-17-20140904	N	9/4/2014	Y		Y
14-09-0312	16	BF-15-20140904	N	9/4/2014	Y		Y
14-09-0448	01	TB-20140905	TB	9/5/2014	Y		
14-09-0448	02	EB-20140905	EB	9/5/2014	Y		Y
14-09-0448	03	G-23-20140905	N	9/5/2014	Y[a]		Y[a]
14-09-0448	04	MW-23-20140905	N	9/5/2014	Y		Y
14-09-0448	05	MW-24-20140905	N	9/5/2014	Y		Y
14-09-0448	06	MW-30-20140905	N	9/5/2014	Y		Y
14-09-0448	07	MW-9-20140905	N	9/5/2014	Y[b]		Y[b]
14-09-0448	08	MW-900-20140905	FD	9/5/2014	Y[b]		Y[b]
14-09-0448	09	BF-14-20140905	N	9/5/2014	Y		Y
14-09-0448	10	G-OW-3-20140905	N	9/5/2014	Y		Y
14-09-0448	11	G-13-20140905	N	9/5/2014	Y[b]		Y[b]
14-09-0448	12	G-1300-20140905	FD	9/5/2014	Y[b]		Y[b]
14-09-0448	13	BF-16-20140905	N	9/5/2014	Y		Y
14-09-0448	14	SWL0033-20140905	N	9/5/2014	Y		Y
14-09-0448	15	SWL0034-20140905	N	9/5/2014	Y		Y
14-09-0448	16	BF-24-20140905	N	9/5/2014	Y		Y
14-09-0554	01	TB20140908-B	TB	9/8/2014		Y	
14-09-0554	02	BF-1-20140908	N	9/8/2014		Y[a,b]	Y[b]
14-09-0554	03	BF-100-20140908	FD	9/8/2014		Y[b]	Y[b]
14-09-0554	04	G-20-20140908	N	9/8/2014		Y	Y[a]
14-09-0554	05	BF-34-20140908	N	9/8/2014		Y	
14-09-0554	06	G-OW-1-20140908	N	9/8/2014		Y	
14-09-0554	07	BF-OW-1-20140908	N	9/8/2014		Y	
14-09-0554	08	MBFB-OW-1-	N	9/8/2014		Y	
14-09-0554	09	MW-8-20140908	N	9/8/2014		Y	
14-09-0554	10	MW-3-20140908	N	9/8/2014		Y	

SDG	Lab ID	Field Sample ID	Matrix/ Sample Type	Date Sampled	SW8260B VOCs	SW8260B FOs	E314.0-MOD pCBSA
14-09-0554	11	MW-31-20140908	N	9/8/2014		Y	
14-09-0554	12	BL-13C-20140908	N	9/8/2014		Y	
14-09-0555	01	PZL0025-20140908	N	9/8/2014			Y
14-09-0555	02	MWC021-20140908	N	9/8/2014			Y
14-09-0555	03	MWC017-20140908	N	9/8/2014			Y
14-09-0555	04	CMW001-20140908	N	9/8/2014			Y
14-09-0555	05	CMW002-20140908	N	9/8/2014			Y
14-09-0556	01	TB-20140908	TB	9/8/2014	Y		
14-09-0556	02	EB-20140908	EB	9/8/2014	Y		Y
14-09-0556	03	BF-30-20140908	N	9/8/2014	Y[a]		Y[a]
14-09-0556	04	MW-10-20140908	N	9/8/2014	Y		Y
14-09-0556	05	BF-23-20140908	N	9/8/2014	Y		Y
14-09-0556	06	MW-5-20140908	N	9/8/2014	Y		Y
14-09-0556	07	G-12-20140908	N	9/8/2014	Y		Y
14-09-0556	08	BF-3-20140908	N	9/8/2014	Y		Y
14-09-0658	01	TB-20140909	TB	9/9/2014	Y		
14-09-0658	02	EB-20140909	EB	9/9/2014	Y		Y
14-09-0658	03	MW-19-20140909	N	9/9/2014	Y[a,c]		Y[c]
14-09-0658	04	MW-22-20140909	N	9/9/2014	Y[c]		Y[a,c]
14-09-0658	05	MW-16-20140909	N	9/9/2014	Y[c]		Y[c]
14-09-0658	06	G-25-20140909	N	9/9/2014	Y[c]		Y[c]
14-09-0658	07	BF-5-20140909	N	9/9/2014	Y[c]		Y[c]
14-09-0658	08	MW-6-20140909	N	9/9/2014	Y[c]		Y[c]
14-09-0658	09	G-4-20140909	N	9/9/2014	Y[c]		Y[c]
14-09-0658	10	G-8-20140909	N	9/9/2014	Y[c]		Y[c]
14-09-0658	11	G-3-20140909	N	9/9/2014	Y[c]		Y[c]
14-09-0658	12	MW-11-20140909	N	9/9/2014	Y[c]		Y[c]
14-09-0658	13	G-1-20140909	N	9/9/2014	Y[a,b,c]		Y[b,c]
14-09-0658	14	G-100-20140909	FD	9/9/2014	Y[b,c]		Y[b,c]
14-09-0658	15	G-02WC-20140909	N	9/9/2014			Y[c]
14-09-0658	16	MW-12-20140909	N	9/9/2014	Y[c]		Y[c]
14-09-0658	17	BF-11-20140909	N	9/9/2014	Y[c]		Y[c]
14-09-0658	18	MW-4-20140909	N	9/9/2014	Y[c]		Y[c]
14-09-0658	19	BF-4-20140909	N	9/9/2014	Y[c]		Y[c]
14-09-0659	01	TB20140909-B	TB	9/9/2014		Y	
14-09-0659	02	MW17-20140909	N	9/9/2014		Y[a]	
14-09-0659	03	MW7-20140909	N	9/9/2014		Y	
14-09-0659	04	BF-20-20140909	N	9/9/2014		Y	Y
14-09-0760	01	TB-20140910	TB	9/10/2014	Y		
14-09-0760	02	EB-20140910	EB	9/10/2014	Y		Y

SDG	Lab ID	Field Sample ID	Matrix/ Sample Type	Date Sampled	SW8260B VOCs	SW8260B FOs	E314.0-MOD pCBSA
14-09-0760	03	SWL0063-20140910	N	9/10/2014			Y
14-09-0760	04	LW-2-20140910	N	9/10/2014	Y[a]		Y[a]
14-09-0760	05	LW-1-20140910	N	9/10/2014	Y[b]		Y[b]
14-09-0760	06	LW-100-20140910	FD	9/10/2014	Y[b]		Y[b]
14-09-0760	07	BF-31-20140910	N	9/10/2014	Y[a]		Y[a]
14-09-0760	08	G-17-20140910	N	9/10/2014	Y[a,b]		Y[b]
14-09-0760	09	G-1700-20140910	FD	9/10/2014	Y[b]		Y[b]
14-09-0760	10	G-5-20140910	N	9/10/2014	Y		Y
14-09-0760	11	G-2-20140910	N	9/10/2014	Y		Y
14-09-0760	12	BF-9-20140910	N	9/10/2014	Y		Y
14-09-0760	13	BF-2-20140910	N	9/10/2014	Y		Y
14-09-0760	14	MW-1-20140910	N	9/10/2014	Y		Y
14-09-0760	15	MW-2-20140910	N	9/10/2014	Y		Y
14-09-0943	01	G-30-20140911	N	9/11/2014	Y		Y
14-09-0943	02	TB-20140911	TB	9/11/2014	Y		
14-09-0943	03	EB-20140911	EB	9/11/2014	Y		Y
14-09-0943	04	LW-5-20140911	N	9/11/2014	Y		Y
14-09-0943	05	G-33-20140911	N	9/11/2014	Y		Y
14-09-0943	06	G-21-20140911	N	9/11/2014	Y[a]		Y[a]
14-09-0943	07	MW-28-20140911	N	9/11/2014		Y	
14-09-0943	08	SWL0058-20140911	N	9/11/2014		Y	
14-09-0943	09	BF-35-20140911	N	9/11/2014	Y		Y
14-09-1187	01	TB-20140915	TB	9/15/2014	Y		
14-09-1187	02	EB-20140915	EB	9/15/2014	Y		Y
14-09-1187	03	LW-7-20140915	N	9/15/2014	Y[a]		Y
14-09-1187	04	BF-32A-20140915	N	9/15/2014	Y		Y
14-09-1187	05	BF-19-20140915	N	9/15/2014	Y		Y[a]
14-09-1187	06	G-14-20140915	N	9/15/2014	Y		Y
14-09-1187	07	G-11-20140915	N	9/15/2014	Y		Y
14-09-1264	01	TB-20140916	TB	9/16/2014	Y		
14-09-1264	02	EB-20140916	EB	9/16/2014	Y		Y
14-09-1264	03	G-16-20140916	N	9/16/2014	Y		Y
14-09-1264	04	LG-1-20140916	N	9/16/2014	Y[b]		Y[b]
14-09-1264	05	LG-100-20140916	FD	9/16/2014	Y[b]		Y[b]
14-09-1264	06	G-15-20140916	N	9/16/2014	Y		Y[a]
14-09-1264	07	LG-2-20140916	N	9/16/2014	Y		Y
14-09-1264	08	BF-29-20140916	N	9/16/2014	Y		Y
14-09-1264	09	BF-12-20140916	N	9/16/2014	Y[b]		Y[b]
14-09-1264	10	BF-1200-20140916	FD	9/16/2014	Y[b]		Y[b]
14-09-1462	01	TB-20140918	TB	9/18/2014	Y		

SDG	Lab ID	Field Sample ID	Matrix/ Sample Type	Date Sampled	SW8260B VOCs	SW8260B FOs	E314.0-MOD pCBSA
14-09-1462	02	EB-20140918	EB	9/18/2014	Y		Y
14-09-1462	03	LW-6-20140918	N	9/18/2014	Y[(a)]		Y[(a)]
14-09-1606	01	EB-20140919	EB	9/19/2014	Y		Y
14-09-1606	02	TB-20140919	TB	9/19/2014	Y		
14-09-1606	03	LW-4-20140919	N	9/19/2014	Y		Y[(a)]
14-09-2424	01	SWL0049-20140930	N	9/30/2014			Y[(a)]
440-89327	01	TB-20140930	TB	9/30/2014	Y		
440-89327	02	SWL0049-20140930	N	9/30/2014	Y		
15-01-0665	01	EB-20150113	EB	1/13/15	Y	Y	Y
15-01-0665	02	LW-4-20150113	N	1/13/15	Y	Y	Y

Analytical Parameters by Method (Y = Yes, analysis by this method was requested and performed):
SW8260B = VOCs by gas chromatography/mass spectrometry (GC/MS)
SW8260B = FOs by gas chromatography/mass spectrometry (GC/MS)
E314.0-MOD = pCBSA by ion chromatography
[(a)] Matrix spike/matrix spike duplicate analyses performed on this sample.
[(b)] Field duplicate groundwater sample pair.
[(c)] Level IV validation performed on calibration and batch QC samples
FD = field duplicate groundwater sample

The laboratory data for the definitive-level samples were reviewed for conformance with the requirements of the specified analytical methods in *SW846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods* (EPA 1986 and Updates) and *Methods for the Determination of Inorganic Substances in Environmental Samples* EPA/600/R-93/100, 1993 and Updates). Data were validated and qualified using the *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (EPA, 2008) and *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (EPA, 2004) (NFGs), as applicable to the methods used for this project. The reviewer's professional judgment was used to evaluate data quality when called for in the Functional Guidelines. The data validation process was performed by the AECOM chemist in Oakland, California.

Data validation is a systematic process of reviewing and qualifying the analytical data presented against an established set of criteria. Validation is performed to ensure the quality of collected data and to assess limitations on usability, as well as to evaluate laboratory compliance with specified methods and protocols. The following documentation and criteria were evaluated.

Organic Analyses

- Case Narratives
- Data Summary Sheets
- Sample Custody
- Holding Times
- Initial and Continuing Calibrations
- Method Blanks
- Surrogate Recoveries for System Monitoring Compounds (as applicable to the methods)
- Laboratory Control Sample (LCS) Recoveries
- Matrix Spike/Matrix Spike Duplicates (MS/MSD) Recoveries and Relative Percent Differences (RPDs)
- Internal Standard Areas (as applicable to the methods)
- Target Compound Identification and Quantitation (Level IV)
- Method Detection Limits (MDL) and Reporting Limits (RL)
- Sample Chromatograms (Level IV)
- Instrument Run Logs
- Sample Preparation Sheets
- Field Duplicate Samples

Data validation qualifiers were assigned by the data validator to all definitive-level data that failed to meet specified analytical and QC criteria according to requirements specified in the Quality Assurance Planning (QAPP) section of the *Groundwater Monitoring and Aquifer Compliance Plan, Montrose Superfund Site, 20201 South Normandie Avenue, Los Angeles, California, July, 2014* (the MACP) and the NFGs. Instances where specified criteria were not met are discussed in the Data Validation Report (DVR).

Data qualified with the “J” or “UJ” qualifiers are considered estimated and usable within the constraints of the final data usability assessment. No data were qualified with the “R” qualifier as considered rejected and unusable. Data blank-qualified with the "U" qualifier are considered non-detected at the reported value and usable to demonstrate the analyte is not present above the reported concentration. The qualifiers used to flag validated and verified analytical data are summarized below. The validation qualifiers are:

J	The analyte was reported as detected by the laboratory; the result is an estimate due to QC parameter exceeding specified control limits.
UJ	The analyte was reported as ND by the laboratory, the result is an estimate due to QC parameter exceeding specified control limits.
U (detected, but blank-qualified)	The analyte was tested for and detected above the MDL, but is considered non-detected (ND) at the reported value due to detection in an associated blank at a level greater than one-fifth the reported concentration in the sample.
R (unusable)	The result is rejected due to QC failure or data quality limitations. The presence or absence of the analyte in the sample cannot be verified, or the reported result is so severely compromised as to be unusable.

Note that for each sample, one analytical result was determined to be most appropriate for reporting purposes for each analyte by the laboratory or project chemist according to dilution. These results were validated and qualifiers applied, as specified in the DVR. These results have been used for project reporting purposes and are provided in the sample results tables in Appendix B.

A technical completeness of 100 percent for the data was achieved for this project. None of the data were qualified as rejected (R), three sample results were blank-qualified as non-detected (U), and 342 results (approximately 4.0 percent of the data) were qualified as estimated (J/UJ) in data validation for exceeding quality assurance objectives (QAOs) specified for precision, accuracy, representativeness, comparability, and completeness (PARCC) in the QAPP. Of the 0.4 percent that were qualified as estimated, 0.2 percent were due to matrix-related issues and 3.8 percent were due to exceeded laboratory accuracy and precision criteria.

All results were reported to the RL. Calscience and TAMI reported trace results that were detected at less than the RL but greater than the MD with the “J” laboratory qualifier, which appears in the “Results” column of the results tables. Ninety-three sample results (approximately 1.1 percent of the data) were qualified with this laboratory qualifier. These results may be quantitatively and qualitatively uncertain due to uncertainty near the limits of detection. No additional validation qualifiers are assigned as these data do not indicate analytical problems, do not affect the PARCC objectives, and are not included in calculation of qualification percentages for PARCC parameters.

All data validation qualifiers were reviewed with respect to usability for project objectives. All of the estimated data were determined to be usable and to meet project objectives. Data quality, data usability, completeness, and PARCC assessment for each method are summarized in the following sections.

1.1 DATA QUALITY ASSESSMENT FOR VOCS—SW8260B

A total of 97 groundwater samples, 9 field duplicate samples, 12 equipment blanks, and 14 trip blanks were analyzed by EPA Method SW8260B for VOCs and/or FOs. In data validation, approximately 4.4 percent of the SW8260B data were qualified as estimated (J/UJ), none of the SW8260B data were qualified as rejected (R) and three sample results (approximately 0.04 percent of the SW8260B data) were blank-qualified as non-detected (U). Of the 4.4 percent of the SW8260B data qualified as estimated, 0.2 percent were due to matrix-related issues and 4.2 percent were due to exceeded laboratory accuracy and precision criteria.

1.1.1 DATA USABILITY ASSESSMENT OF QUALIFIED DATA FOR EPA METHOD SW8260B—VOCS

All sample analyses were performed within the 14-day technical holding time.

Approximately 3.7 percent of the SW8260B data were qualified as estimated and assigned the "J" or "UJ" qualifiers in data validation due to initial calibration or calibration verification standards that exceeded specified criteria. Refer to the DVR for specific information on calibration verification standards for specific sample results. Note that most exceedances were not significantly outside of the specified criteria, most of the data qualified for high RSDs were non-detected, and most %Ds exceeding criteria were for high bias (negative %D) for non-detects; therefore, the effect on the quality of the data is not expected to be significant. Although quantitatively uncertain, the estimated results are considered usable for decision-making purposes.

Three sample results (approximately 0.04 percent of the SW8260B data) were blank-qualified as non-detected (U) due to detections in equipment blanks. Trace detections (results detected between the RL and MDL) or detections marginally above the reporting limit were reported for several VOCs in some of the equipment blanks, as presented in the DVS. All associated results were non-detected and no data were qualified, with the exception of the result reported at the reporting limit for chlorobenzene in sample BF-31-20140910 (14-09-0760-07) that was blank-qualified (U) as non-detected at the reported concentration due to the trace detection in equipment blank EB-20140910; and the trace result for acetone and result reported marginally above the RL for tert-butyl alcohol (TBA) in sample LW-4-20150113 (15-01-0665-3) that were blank-qualified (U) as non-detected at the reported concentrations due to the trace detections in equipment blankEB-20150113. No data other data were qualified for blank detections.

Note that the trace detections for the common laboratory contaminant acetone in samples G-1-20140909 (14-09-0658-13), G-30-20140911 (14-09-0943-01), BF-32A-20140915 (14-09-1187-04), G-11-20140915 (14-09-1187-07), and BF-29-20140916 (14-09-1264-08), although not detected in any of the associated blanks, may be laboratory artifacts and should be considered to be potential false positives or biased high.

All surrogate recoveries were within specified control limits.

All internal standard areas were within specified control limits.

Approximately 0.7 percent of the SW8260B data were qualified as estimated and assigned the "J" or "UJ" qualifiers in data validation and no data were qualified as rejected due to LCS recoveries that exceeded specified control limits. The percent recoveries for VOCs in LCSs that exceeded the 180-120 %R control limits and the qualifications for associated samples are presented in the DVR. For LCSs with high bias, no qualifiers were assigned to associated sample results with non-detected results in data validation. For LCSs with high bias, detected results are qualified as estimated (J), and for LCSs with low bias, detected results are qualified as estimated (J) and non-detected results are qualified as estimated (UJ) in data validation. Refer to the DVR for specific information on the LCS/LCSD results.

Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on parent field samples at a frequency of 15.1 percent, exceeding the minimum requirement of 1:20 samples. Approximately 0.2 percent of the SW8260B data were qualified as estimated and assigned the "J" or "UJ" qualifiers in data validation and no data were qualified as rejected due to MS/MSD recoveries that exceeded specified control limits. The percent recoveries for VOCs in MS/MSDs that exceeded the 180-120 %R control limits and the qualifications for associated samples are presented in the DVR. For MS/MSDs with high bias, no qualifiers were assigned to associated sample results with non-detected results in data validation. For MS/MSDs with high bias, detected results are qualified as estimated (J), and for MS/MSDs with low bias, detected results are qualified as estimated (J) and non-detected results are qualified as estimated (UJ) in data validation. No results were qualified for MS/MSD RPDs. Results for MS/MSD outliers are qualified in the parent samples only, as it is not possible to determine if other samples are of a similar matrix as demonstrated by acceptable recoveries in other MS/MSD samples. Refer to the DVR for specific information on the MS/MSD results. As LCS, LCSD, and other QC parameters were generally acceptable, MS/MSD outliers are attributed to matrix effects. MS/MSD outliers resulting in data qualifications were generally not significantly outside of specified criteria. The qualifications are not expected to significantly affect project objectives.

Nine field duplicate sample pairs were collected for 97 normal samples (9.3 percent frequency) for this sampling round for EPA Method SW8260B. The guideline for relative percent difference (RPD) between sample and field duplicate sample results is 30 RPD. The RPD value is not defined and cannot be calculated for field duplicate pairs for which one or both results are below RLs. For values less than five-times the RL, RPDs are not used for evaluation. In these cases, the 30 RPD guideline may not be appropriate, and results within ±RL for waters are considered acceptable. All field duplicate sample results were within the specified criteria and no data were qualified due to field duplicate sample results.

The analytical laboratories reported results that were detected at less than the RL but greater than the MDL. Such results were reported by the laboratory with the "J" laboratory qualifier, which appears in the "Results" column of the results tables. Ninety sample results (approximately 1.2 percent of the SW8260B data) were qualified with this laboratory qualifier. These results may be quantitatively and qualitatively uncertain due to uncertainty near the limits of detection. No additional validation qualifiers were assigned as these results are not representative of QA/QC problems.

All qualified data were determined to be usable for decision-making in data assessment. The data are considered usable for the purposes of determining VOC groundwater contamination and delineation. PARCC for EPA Method SW8260B is discussed in Section 1.3.

1.1.2 COMPLETENESS FOR EPA METHOD SW8260B—VOCS

No results were flagged with the "R" qualifier as not considered valid results with respect to completeness. The completeness for EPA Method SW8260B for this project is 100 percent.

Completeness for all EPA Method EPA Method SW8260B analytes is acceptable for this project. The data validation and data usability assessment results indicate the overall acceptable quality of the definitive-level data for EPA Method SW8260B collected for this project. The data meet project objectives and can be used within the constraints of specified qualifiers for decision-making purposes.

1.2 DATA QUALITY ASSESSMENT FOR PCBSA—E314.0-MOD

A total of 101 groundwater samples, 9 field duplicate samples, and 12 equipment blanks were analyzed by Method E314.0-MOD for pCBSA. In data validation, none of the E314.0-MOD data were qualified as

estimated (J/UJ), none of the E314.0-MOD data were qualified as rejected (R) and none of the E314.0-MOD data were blank-qualified as non-detected (U).

1.2.1 DATA USABILITY ASSESSMENT OF QUALIFIED DATA FOR EPA METHOD E314.0-MOD—PCBSA

All sample analyses were performed within the 28-day technical holding time.

All initial calibrations and initial and continuing calibration verifications met the specified criteria for this method. No data were qualified due to exceeded calibration criteria.

No contamination was detected above the reporting limit in any of the method blanks, initial calibration blanks (ICBs), continuing calibration blanks (CCBs), or equipment blanks associated with all reported results for this analysis, with one exception. pCBSA was detected at 45 µg/L in the CCB for the analytical run performed on 09/09/14. Results for the associated samples reported from this analytical run were significantly greater than 5-times the concentration of the CCB. Additional samples from this run were reanalyzed with a non-detected CCB. No data were qualified for blank detections.

All LCS recoveries were within specified control limits.

Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on parent field samples at a frequency of 14.9 percent, exceeding the minimum requirement of 1:20 samples. All MS/MSD recoveries and RPDs between MS./MSDs were within specified control limits.

Nine field duplicate sample pairs were collected for 101 normal samples (8.9 percent frequency) for this sampling round for EPA Method E314.0-MOD. The guideline for relative percent difference (RPD) between sample and field duplicate sample results is 30 RPD. The RPD value is not defined and cannot be calculated for field duplicate pairs for which one or both results are below RLs. For values less than five-times the RL, RPDs are not used for evaluation. In these cases, the 30 RPD guideline may not be appropriate, and results within ±RL for waters are considered acceptable. All field duplicate sample results were within the specified criteria and no data were qualified due to field duplicate sample results.

The analytical laboratories reported results that were detected at less than the RL but greater than the MDL. Such results were reported by the laboratory with the "J" laboratory qualifier, which appears in the "Results" column of the results tables. Three sample results (approximately 2.5 percent of the E314.0-

MOD data) were qualified with this laboratory qualifier. These results may be quantitatively and qualitatively uncertain due to uncertainty near the limits of detection. No additional validation qualifiers were assigned as these results are not representative of QA/QC problems.

All qualified data were determined to be usable for decision-making in data assessment. The data are considered usable for the purposes of determining VOC groundwater contamination and delineation. PARCC for EPA Method E314.0-MOD is discussed in Section 1.3.

1.2.2 COMPLETENESS FOR EPA METHOD E314.0-MOD—PCBSA

No results were flagged with the "R" qualifier as not considered valid results with respect to completeness. The completeness for EPA Method E314.0-MOD for this project is 100 percent.

Completeness for all EPA Method EPA Method E314.0-MOD analytes is acceptable for this project. The data validation and data usability assessment results indicate the overall acceptable quality of the definitive-level data for EPA Method E314.0-MOD collected for this project. The data meet project objectives and can be used within the constraints of specified qualifiers for decision-making purposes.

1.3 PARCC ASSESSMENT

The following paragraphs discuss the overall data quality in terms of the PARCC goals established for this project.

Precision

Precision measures the reproducibility of the experimental value for the same parameter in the same sample under the same conditions. The parameters evaluated to assess precision during the data validation process are the RPDs for LCS/LCSD, MS/MSD, and field duplicate and split sample analyses.

The RPDs for the laboratory duplicate and field replicate analyses were acceptable. None of the data were qualified due to RPD results outside of acceptance criteria for MS/MSD, LCS/LCSD, or field duplicate results. Field duplicate samples were collected at a frequency of 9.3 percent for Method SW8260B and a frequency of 8.9 percent for Method E314.0-MOD, and achieved 100 percent compliance with the precision criteria. Precision is considered acceptable for this data set.

Accuracy

One of the major objectives of the data validation process is to evaluate the accuracy of the data collected. Accuracy measures the deviation between the reported or experimental value and the true value. To assess accuracy, known concentrations of the analytes of interest were spiked into samples and percent recoveries of the spiked analytes were calculated. The parameters evaluated to assess accuracy during the data validation process include surrogate recoveries, MS and MSD recoveries, and LCS and LCSD recoveries. Additional factors affecting accuracy such as blank evaluation, internal standard areas, calibration criteria, and analyte identification and quantitation were also reviewed in data validation.

The surrogate recoveries are indicators of interference specific to the sample matrix. LCS recoveries are indicators of laboratory performance. Spike, surrogate, calibration, quantitation problems, and other accuracy related parameters resulted in the estimation of approximately 4.0 percent of the data and rejection of none of the data. No problems severe enough to affect the usability of the qualified data for decision-making purposes or to compromise project objectives are indicated.

Representativeness

Representativeness measures how accurately the sample data reflect the actual media and environmental conditions being measured. Sampling locations that were representative of the medium being sampled were chosen. Sampling protocols were developed to ensure that samples collected represented the actual medium and that no contamination was introduced during sample collection. Proper sample handling and preservation were observed in the field to ensure that the samples maintained their integrity while being transported to the laboratory for analysis.

The protocols followed by the field crew while collecting the samples were described in the *Groundwater Monitoring and Aquifer Compliance Plan, Montrose Superfund Site, 20201 South Normandie Avenue, Los Angeles, California, July, 2014* (the MACP).

Completeness

Completeness is defined as the percentage of data that are within the acceptance criteria for a given data set and are, therefore, considered valid. Completeness is measured by comparing the total number of acceptable parameters (valid data) against the total number of parameters analyzed. Valid or acceptable data consist of parameters that met all the QC acceptance criteria and parameters that were estimated and qualified as "J" or “UJ” or “U” that can still be used for their intended purpose.

The data reviewed for this project showed a completeness of 100 percent for this data set.

Comparability

Comparability reflects the internal consistency of the measurements and how well the data set can be compared to another data set generated by a different organization. The generation of comparable data requires the use of certified or approved laboratories and established and widely accepted protocols that produce comparable results. Review of the data generated for this project include the use of approved and nationally accepted sampling and testing methods approved by the EPA, thereby ensuring a high degree of comparability.

Table C-2
RPD Between Primary and Duplicate Samples
2014 Baseline Monitoring and Aquifer Compliance Report
Montrose Superfund Site
20201 S. Normandie Avenue, Los Angeles, California

Well	Chemical	Primary Result (µg/L)	Duplicate Result (µg/L)	RPD (%)	RPD>30%	<5x RL[1]	D<2x RL[2]	Comment[3]
BF-1	**pCBSA, EPA Method 314.0 Modified**							
	pCBSA	29.00	31.00	7.00				
G-1	**VOCs, EPA Method 8260B**							
	acetone	3.70	<10	NC				
	chlorobenzene	7.60	7.90	4.00				
	pCBSA, EPA Method 314.0 Modified							
	pCBSA	79.00	91.00	14.00				
G-13	**VOCs, EPA Method 8260B**							
	chlorobenzene	900.00	930.00	3.00				
	pCBSA, EPA Method 314.0 Modified							
	pCBSA	21,000.00	23,000.00	9.00				
G-17	**VOCs, EPA Method 8260B**							
	benzene	1.30	1.20	8.00				
	tert-butanol (TBA)	6.80	4.60	39.00				
	chlorobenzene	150.00	160.00	6.00				
	1,2-dichloroethane	5.20	5.30	2.00				
	1,1-dichloroethene	0.84	0.88	5.00				
	cis-1,2-dichloroethene	5.30	5.20	2.00				
	tetrachloroethene (PCE)	0.24	0.22	9.00				
	trichloroethene (TCE)	20.00	19.00	5.00				
	vinyl chloride	0.29	0.27	7.00				
	pCBSA, EPA Method 314.0 Modified							
	pCBSA	3,400.00	3,600.00	6.00				
G-26	**VOCs, EPA Method 8260B**							
	chlorobenzene	84.00	87.00	4.00				
	pCBSA, EPA Method 314.0 Modified							
	pCBSA	720.00	730.00	1.00				
LG-1	**VOCs, EPA Method 8260B**							
	chlorobenzene	8.70	8.10	7.00				
	pCBSA, EPA Method 314.0 Modified							
	pCBSA	26,000.00	26,000.00	0.00				
LW-1	**VOCs, EPA Method 8260B**							
	chlorobenzene	3.00	3.40	12.00				
	pCBSA, EPA Method 314.0 Modified							
	pCBSA	9.50	8.20	15.00				

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Table C-2
RPD Between Primary and Duplicate Samples
2014 Baseline Monitoring and Aquifer Compliance Report
Montrose Superfund Site
20201 S. Normandie Avenue, Los Angeles, California

Well	Chemical	Primary Result (µg/L)	Duplicate Result (µg/L)	RPD (%)	RPD>30%	<5x RL[1]	D<2x RL[2]	Comment[3]
MW-9	**VOCs, EPA Method 8260B**							
	chloroform	3,000.00	3,000.00	0.00				
	tetrachloroethene (PCE)	43.00	43.00	0.00				
	trichloroethene (TCE)	5.40	6.20	14.00				
	pCBSA, EPA Method 314.0 Modified							
	pCBSA	2.60	<5.0	NC				

Notes:

Only detected results, in either the primary or duplicate sample, are provided in the table.

[1] Indicated as "Y" if primary and/or duplicate result is <5x the RL.
[2] Where <5x RL, the result is acceptable for purposes of data validation if D <2x the RL.
[3] RPD results outside the acceptance limits are indicated as outliers and highlighted in yellow.

<	less than
µg/L	micrograms per liter
D	difference between primary and field duplicate result
EPA	United States Environmental Protection Agency
N	no
NC	not calculated
pCBSA	4-chlorobenzenesulfonic acid
RL	reporting limit
RPD	relative percent difference
VOC	volatile organic compound
x	times
Y	yes

AECOM

Table C-3
MS/MSD Results
2014 Baseline Monitoring and Aquifer Compliance Report
Montrose Superfund Site
20201 S. Normandie Avenue, Los Angeles, California

Well	Lab Sample	Batch	Analysis	Analyte	Original Sample (µg/L)	MS Spike Amount (µg/L)	MSD Spike Amount (µg/L)	MS Expected (µg/L)	MSD Expected (µg/L)	MS Dilution	MSD Dilution	MS Result (µg/L)	MSD Result (µg/L)	MS %R	MSD %R	%R Min Limit	%R Max Limit	%RPD	Max %RPD
BF-27	14-09-0173-04	40905L045g	EPA 8260B	bromoform	<0.50	10.00	10.00	10.00	10.00	1	1	7.094	7.480	71*	75*	80	120	5	20
				dibromochloromethane	<0.50	10.00	10.00	10.00	10.00	1	1	7.948	8.697	80*	87	80	120	9	20
BF-31	14-09-0760-07	40915L023g	EPA 8260B	bromoform	<0.50	10.00	10.00	10.00	10.00	1	1	6.886	7.706	69*	77*	80	120	11	20
				carbon disulfide	<1.0	10.00	10.00	10.00	10.00	1	1	12.72	13.29	127*	133*	80	120	4	20
				chloroethane	<0.50	10.00	10.00	10.00	10.00	1	1	14.83	17.52	148*	175*	80	120	17	20
				chloromethane	<0.50	10.00	10.00	10.00	10.00	1	1	12.69	13.72	127*	137*	80	120	8	20
				dichlorodifluoromethane	<1.0	10.00	10.00	10.00	10.00	1	1	11.82	12.95	118	130*	80	120	9	20
				cis-1,2-dichloroethene	<0.50	10.00	10.00	10.00	10.00	1	1	11.57	12.01	116	120*	80	120	4	20
				trans-1,2-dichloroethene	<0.50	10.00	10.00	10.00	10.00	1	1	11.64	12.41	116	124*	80	120	6	20
				trans-1,3-dichloropropene	<0.50	10.00	10.00	10.00	10.00	1	1	7.733	8.097	77*	81	80	120	5	20
				methylene chloride	<1.0	10.00	10.00	10.00	10.00	1	1	12.32	13.28	123*	133*	80	120	7	20
				vinyl chloride	<0.50	10.00	10.00	10.00	10.00	1	1	12.63	14.25	126*	142*	72	126	12	20
G-1	14-09-0658-13	40916L025g	EPA 8260B	naphthalene	<1.0	10.00	10.00	10.00	10.00	1	1	11.71	12.19	117	122*	80	120	4	20
G-17	14-09-0760-08	40916L035g	EPA 8260B	bromomethane	<1.0	10.00	10.00	10.00	10.00	1	1	7.198	6.774	72*	68*	80	120	6	20
				chlorobenzene	150	10.00	10.00	154.1	154.1	1	1	155.7	153.6	NC	NC	80	120	NC	20
				chloroethane	<0.50	10.00	10.00	10.00	10.00	1	1	12.04	13.30	120*	133*	80	120	10	20
				trans-1,3-dichloropropene	<0.50	10.00	10.00	10.00	10.00	1	1	7.842	8.234	78*	82	80	120	5	20
G-21	14-09-0943-06	140912L02y	EPA 314.0 Modified	pCBSA	130	25.00	25.00	168.4	168.4	1	1	172.6	170.4	NC	NC	70	130	NC	20
		40918L001g	EPA 8260B	chloromethane	<0.50	10.00	10.00	10.00	10.00	1	1	10.65	12.05	106	120*	80	120	12	20
				trichloroethene (TCE)	380	10.00	10.00	392.0	392.0	1	1	393.4	386.3	NC	NC	77	120	NC	20
G-23	14-09-0448-03	40910L047g	EPA 8260B	bromoform	<0.50	10.00	10.00	10.00	10.00	1	1	7.654	8.227	76*	82	80	120	7	20
				1,2-dibromo-3-chloropropane	<5.0	10.00	10.00	10.00	10.00	1	1	7.462	8.579	75*	86	80	120	14	20
				2,2-dichloropropane	<1.0	10.00	10.00	10.00	10.00	1	1	6.791	6.841	68*	68*	80	120	1	20
LW-2	14-09-0760-04	40915L003g	EPA 8260B	bromoform	<0.50	10.00	10.00	10.00	10.00	1	1	6.672	7.592	67*	76*	80	120	13	20
				chloroethane	<0.50	10.00	10.00	10.00	10.00	1	1	12.25	10.31	122*	103	80	120	17	20
				1,2-dibromo-3-chloropropane	<5.0	10.00	10.00	10.00	10.00	1	1	7.719	8.270	77*	83	80	120	7	20
				dichlorodifluoromethane	<1.0	10.00	10.00	10.00	10.00	1	1	12.87	12.54	129*	125*	80	120	3	20
				methylene chloride	<1.0	10.00	10.00	10.00	10.00	1	1	12.08	11.66	121*	117	80	120	4	20
LW-6	14-09-1462-03	40920L012g	EPA 8260B	trans-1,3-dichloropropene	<0.50	10.00	10.00	10.00	10.00	1	1	7.722	7.800	77*	78*	80	120	1	20
				tetrachloroethene (PCE)	<0.50	10.00	10.00	10.00	10.00	1	1	8.595	7.837	86	78*	80	120	9	20

Table C-3
MS/MSD Results
2014 Baseline Monitoring and Aquifer Compliance Report
Montrose Superfund Site
20201 S. Normandie Avenue, Los Angeles, California

Well	Lab Sample	Batch	Analysis	Analyte	Original Sample (µg/L)	MS Spike Amount (µg/L)	MSD Spike Amount (µg/L)	MS Expected (µg/L)	MSD Expected (µg/L)	MS Dilution	MSD Dilution	MS Result (µg/L)	MSD Result (µg/L)	MS %R	MSD %R	%R Min Limit	%R Max Limit	%RPD	Max %RPD
LW-7	14-09-1187-03	40919L001g	EPA 8260B	bromomethane	<1.0	10.00	10.00	10.00	10.00	1	1	5.699	6.538	57*	65*	80	120	14	20
				chloroethane	<0.50	10.00	10.00	10.00	10.00	1	1	13.93	11.65	139*	116	80	120	18	20
				1,2-dibromo-3-chloropropane	<5.0	10.00	10.00	10.00	10.00	1	1	7.988	8.415	80*	84	80	120	5	20
				trans-1,3-dichloropropene	<0.50	10.00	10.00	10.00	10.00	1	1	7.706	7.994	77*	80*	80	120	4	20
MW-19	14-09-0658-03	40912L051g	EPA 8260B	bromoform	<0.50	10.00	10.00	10.00	10.00	1	1	7.104	7.678	71*	77*	80	120	8	20
				bromomethane	<1.0	10.00	10.00	10.00	10.00	1	1	12.29	11.94	123*	119	80	120	3	20
				2-butanone (MEK)	<5.0	10.00	10.00	10.00	10.00	1	1	8.515	7.379	85	74*	80	120	14	20
				chloroform	21	10.00	10.00	31.32	31.32	1	1	30.64	28.97	93	76*	80	120	6	20
				chloromethane	<0.50	10.00	10.00	10.00	10.00	1	1	12.05	11.98	120*	120	80	120	1	20
				1,2-dibromo-3-chloropropane	<5.0	10.00	10.00	10.00	10.00	1	1	7.546	8.168	76*	82	80	120	8	20
				2,2-dichloropropane	<1.0	10.00	10.00	10.00	10.00	1	1	7.928	7.225	79*	72*	80	120	9	20
				trans-1,3-dichloropropene	<0.50	10.00	10.00	10.00	10.00	1	1	8.072	7.791	81	78*	80	120	4	20
				styrene	<0.50	10.00	10.00	10.00	10.00	1	1	8.040	7.584	80	76*	80	120	6	20

Notes:

*	outside acceptance limits
%	percent
<	less than
µg/L	micrograms per liter
EPA	United States Environmental Protection Agency
Max	maximum
Min	minimum
MS	matrix spike
MSD	matrix spike duplicate
NC	not calculated
pCBSA	4-chlorobenzenesulfonic acid
R	recovery
RPD	relative percent difference

Data Validation Report

General

A total of 106 groundwater samples and 9 field duplicate samples with 12 associated equipment blanks and 13 trip blanks from Montrose Superfund Site were analyzed by Eurofins Calscience, Inc. of Garden Grove, California (Calscience). Sample analyses were for volatile organic compounds (VOCs) and/or fuel oxygenates (FOs) by EPA Method SW8260B and 4-chlorobenzenesulfonic acid (pCBSA) by Modified EPA Method 314.0 (E314.0-MOD). One groundwater sample and 1 trip blank from Montrose Superfund Site were analyzed by TestAmerica Laboratories, Inc., of Irvine, California (TAMI). Sample analyses were for volatile organic compounds (VOCs) by EPA Method SW8260B.

Eight samples, one equipment blank (EB), and one trip blank (TB) collected on September 3, 2014 were received the same day by Calscience, and given the work order number 14-09-0173. Samples were analyzed for VOCs by EPA Method SW8260B and pCBSA by E314.0-MOD.

Thirteen samples, one field duplicate (FD), one EB, and one TB collected on September 4, 2014 were received the same day by Calscience, and given the work order number 14-09-0312. Samples were analyzed for VOCs by EPA Method SW8260B and pCBSA by E314.0-MOD.

Twelve samples, two FDs, and one TB collected on September 4, 2014 were received the same day by Calscience, and given the work order number 14-09-0448. Samples were analyzed for VOCs by EPA Method SW8260B and pCBSA by E314.0-MOD.

Ten samples, one FD, one EB, and one TB collected on September 8, 2014 were received the same day by Calscience, and given the work order number 14-09-0554. Samples were analyzed for FOs by EPA Method SW8260B and pCBSA by E314.0-MOD.

Five samples collected on September 8, 2014 were received the same day by Calscience, and given the work order number 14-09-0555. Samples were analyzed for pCBSA by E314.0-MOD.

Six samples, one EB, and one TB collected on September 8, 2014 were received the same day by Calscience, and given the work order number 14-09-0556. Samples were analyzed for VOCs by EPA Method SW8260B and pCBSA by E314.0-MOD.

Sixteen samples, one FD, one EB, and one TB collected on September 9, 2014 were received the same day by Calscience, and given the work order number 14-09-0658. Samples were analyzed for VOCs by EPA Method SW8260B and pCBSA by E314.0-MOD.

Three samples and one TB collected on September 9, 2014 were received the same day by Calscience, and given the work order number 14-09-0659. Samples were analyzed for FOs by EPA Method SW8260B and pCBSA by E314.0-MOD.

Eleven samples, two FDs, one EB, and one TB collected on September 10, 2014 were received the same day by Calscience, and given the work order number 14-09-0760. Samples were analyzed for VOCs by EPA Method SW8260B and pCBSA by E314.0-MOD.

Seven samples, one EB, and one TB collected on September 11, 2014 were received the same day by Calscience, and given the work order number 14-09-0943. Samples were analyzed for VOCs by EPA Method SW8260B and pCBSA by E314.0-MOD.

Five samples, one EB, and one TB collected on September 15, 2014 were received the same day by Calscience, and given the work order number 14-09-1187. Samples were analyzed for VOCs by EPA Method SW8260B and pCBSA by E314.0-MOD.

Six samples, two FDs, one EB, and one TB collected on September 4, 2014 were received the same day by Calscience, and given the work order number 14-09-1264. Samples were analyzed for VOCs by EPA Method SW8260B and pCBSA by E314.0-MOD.

One sample, one EB, and one TB collected on September 18, 2014 were received the same day by Calscience, and given the work order number 14-09-1462. Samples were analyzed for VOCs by EPA Method SW8260B and pCBSA by E314.0-MOD.

One sample, one EB, and one TB collected on September 19, 2014 were received the same day by Calscience, and given the work order number 14-09-1606. Samples were analyzed for VOCs by EPA Method SW8260B and pCBSA by E314.0-MOD.

One sample collected on September 30, 2014 was received the same day by Calscience, and given the work order number 14-09-0312. The sample was analyzed for pCBSA by E314.0-MOD.

One sample and one TB collected on September 30, 2014 were received the same day by TAMI, and given the work order number 440-89327. Samples were analyzed for VOCs by EPA Method SW8260B.

One sample and one EB collected on January 13, 2015 were received the same day by Calscience, and given the work order number 15-01-0665. Samples were analyzed for VOCs by EPA Method SW8260B and pCBSA by E314.0-MOD.

The laboratory data for these samples were reviewed for conformance with the requirements of the specified analytical methods in *SW846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods* (EPA 1986 and Updates) and *Methods for the Determination of Inorganic Substances in Environmental Samples* EPA/600/R-93/100,

1993 and Updates). Data were validated and qualified using the *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (EPA, 2008) and *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (EPA, 2004) (NFGs) as applicable to the method used for this project. The reviewer's professional judgment was used to evaluate data quality when called for in the Functional Guidelines.

Analytical Results

All data are acceptable for use with the following qualifiers. Some of the sample data are qualified with J (estimated value), UJ (estimated non-detected result and reporting limit), or U (not detected due to blank contamination); and no data were qualified with R (rejected non-detected result), which would be considered unusable.

Data validation was performed at EPA Level III (Tier 2) for all of the samples, with data validation performed at EPA Level 4 (Tier 3) for the following samples and methods, including review and verification of results from the raw data to summary forms, and calculations to verify initial calibrations, calibration verifications, reported concentrations, and percent recoveries and relative percent differences for all specified samples and associated batch QC (including MS/MSD), and to verify that appropriate quantitation and stoichiometric corrections were applied, as applicable to the method: TB-20140909 (14-09-0658-01) for VOCs; EB-20140909 (14-09-0658-02), MW-19-20140909 (14-09-0658-03), MW-22-20140909 (14-09-0658-04), MW-16-20140909 (14-09-0658-05), G-25-20140909 (14-09-0658-06), BF-5-20140909 (14-09-0658-07), MW-6-20140909 (14-09-0658-08), G-4-20140909 (14-09-0658-09), G-8-20140909 (14-09-0658-10), G-3-20140909 (14-09-0658-11), MW-11-20140909 (14-09-0658-12), G-1-20140909 (14-09-0658-13), G-100-20140909 (14-09-0658-14), MW-12-20140909 (14-09-0658-16), BF-11-20140909 (14-09-0658-17), MW-4-20140909 (14-09-0658-18), and BF-4-20140909 (14-09-0658-19) for VOCs and pCBSA; and G-02WC-20140909 (14-09-0658-15) for pCBSA. The Level 4 validation represents greater than ten percent of the data for the method. Chromatograms and mass spectra were reviewed to confirm detections for VOCs, and calculations were performed for VOCs and chlorobenzene to verify that appropriate quantitation and stoichiometric corrections were applied.

Results from Calscience and TAMI were reported to the Reporting Limit (RL) with results that were detected at less than the RL but greater than the method detection limit (RL) reported by the laboratory with the "J" laboratory qualifier, which appears in the "Results" column of the results tables. Eighty-nine sample results were qualified with this laboratory qualifier. These results may be quantitatively and qualitatively uncertain due to uncertainty near the limits of detection. No additional validation qualifiers are assigned as these data do not indicate analytical problems, do not affect the PARCC objectives, and are not included in calculation of qualification percentages for PARCC parameters.

When analyte concentrations exceeded the calibration range, samples were reanalyzed at an appropriate dilution. Results from the appropriate dilution have been selected by the laboratory or project chemist for project reporting purposes.

Sample preservation and receipt

As samples were generally collected and received at the laboratory the same day, there were no problems with sample preservation or receipt. All samples were received at 0-6 degrees Celcius (C).

Documentation and Deliverables

The complete SDG File (CSF) inventory is listed as the Analytical Report for Samples in each data package, and links the laboratory IDs with the client IDs.

The data packages are organized by laboratory sample identifier (ID) and there is a QC summary for each batch. Level 3 data packages were provided for all SDGs with Level 4 data provided for SDG 14-09-0658, and the data were validated for all specified QC parameters, including initial calibrations, tunes, calibration verifications, internal standards, and other method-specified QC samples, as applicable to the method.

Holding Times

All samples were analyzed within the technical holding time specified for each method.

Tunes and Calibrations

- **SW8260B**

Tune data were reported and reviewed for all samples. All volatile tunes met the requirements of Method SW8260B for frequency of analysis, mass identification, and mass intensity.

Initial calibration (ICAL) data were reported and reviewed for all samples. Initial calibration data for the volatile analyses met the requirements of SW-846 for minimum response factors for system performance check compounds and percent relative standard deviations (%RSD) for calibration check compounds. The calibrations for the extended list of compounds were performed and met the criteria and the results for all analytes met the ≤30% relative standard deviation (RSD) or correlation coefficient ≥0.990 and relative response factor (RRF) ≥0.05 (or ≥0.01 for VOCs in Table 1.0 of the NFGs for VOCs) requirements specified in the NFGs, with the following exception. Nondetected results associated with ICAL RSDs greater than 30 are qualified as estimated (UJ), as presented below.

SW8260B ICAL Results Exceeding 30 RSD:

ICAL Instrument	Date Time	Compound	RSD	Qualifier
GCMS L	09/16/14 14:25	Naphthalene	34	UJ

Associated Samples:

Field Sample	Laboratory Sample	Compound	Qualifier
G-1-20140909	14-09-0658-13	naphthalene	UJ
G-100-20140909	14-09-0658-14	naphthalene	UJ
MW-12-20140909	14-09-0658-16	naphthalene	UJ
BF-11-20140909	14-09-0658-17	naphthalene	UJ
MW-4-20140909	14-09-0658-18	naphthalene	UJ
BF-4-20140909	14-09-0658-19	naphthalene	UJ
G-17-20140910	14-09-0760-08	naphthalene	UJ
G-1700-20140910	14-09-0760-09	naphthalene	UJ
G-5-20140910	14-09-0760-10	naphthalene	UJ
G-2-20140910	14-09-0760-11	naphthalene	UJ
BF-9-20140910	14-09-0760-12	naphthalene	UJ
BF-2-20140910	14-09-0760-13	naphthalene	UJ
MW-1-20140910	14-09-0760-14	naphthalene	UJ
MW-2-20140910	14-09-0760-15	naphthalene	UJ
G-30-20140911	14-09-0943-01	naphthalene	UJ
TB-20140911	14-09-0943-02	naphthalene	UJ
EB-20140911	14-09-0943-03	naphthalene	UJ
LW-5-20140911	14-09-0943-04	naphthalene	UJ
G-33-20140911	14-09-0943-05	naphthalene	UJ
G-21-20140911	14-09-0943-06	naphthalene	UJ
BF-35-20140911	14-09-0943-09	naphthalene	UJ
TB-20140915	14-09-1187-01	naphthalene	UJ
EB-20140915	14-09-1187-02	naphthalene	UJ
LW-7-20140915	14-09-1187-03	naphthalene	UJ
BF-32A-20140915	14-09-1187-04	naphthalene	UJ
BF-19-20140915	14-09-1187-05	naphthalene	UJ
G-14-20140915	14-09-1187-06	naphthalene	UJ
G-11-20140915	14-09-1187-07	naphthalene	UJ
TB-20140916	14-09-1264-01	naphthalene	UJ
EB-20140916	14-09-1264-02	naphthalene	UJ
G-16-20140916	14-09-1264-03	naphthalene	UJ
LG-1-20140916	14-09-1264-04	naphthalene	UJ
LG-100-20140916	14-09-1264-05	naphthalene	UJ
G-15-20140916	14-09-1264-06	naphthalene	UJ
LG-2-20140916	14-09-1264-07	naphthalene	UJ
BF-29-20140916	14-09-1264-08	naphthalene	UJ
BF-12-20140916	14-09-1264-09	naphthalene	UJ
BF-1200-20140916	14-09-1264-10	naphthalene	UJ

TB-20140918	14-09-1462-01	naphthalene	UJ
EB-20140918	14-09-1462-02	naphthalene	UJ
LW-6-20140918	14-09-1462-03	naphthalene	UJ
EB-20140919	14-09-1606-01	naphthalene	UJ
TB-20140919	14-09-1606-02	naphthalene	UJ
LW-4-20140919	14-09-1606-03	naphthalene	UJ

SW8260B ICAL Results Exceeding 30 RSD:
ICAL

Instrument	Date Time	Compound	RSD	Qualifier
GCMS L	01/12/15 14:12	Naphthalene	40	UJ

Associated Samples:

Field Sample	Laboratory Sample	Compound	Qualifier
B-20150113	15-01-0665-02	naphthalene	UJ
LW-4-20150113	15-01-0665-03	naphthalene	UJ

Second-source initial calibration verification standards (ICVs) met the ≤25 percent difference (%D) (or ≤40 %D* for VOCs in Table 1.0 of the NFGs for VOCs) requirements specified in the NFGs, with the following exceptions. Nondetected results associated with ICV %Ds greater than 25% (or ≤40 %D for VOCs in Table 1.0 of the NFGs for VOCs) are qualified as estimated (UJ) and detected results are qualified as estimated (J), as presented below. Note that negative %Ds indicate high bias in the ICV.

SW8260B ICV Results Exceeding 25%D:
ICV

Instrument	Date Time	Compound	%D	Qualifier
GCMS L	09/09/14 22:18	Acetone	-71	UJ
GCMS L	09/09/14 22:18	Bromomethane	-31	UJ
GCMS L	09/09/14 22:18	Naphthalene	-26	UJ

Associated Samples:

Field Sample	Laboratory Sample	Compound	Qualifier
TB-20140904	14-09-0312-01	acetone	UJ
EB-20140904	14-09-0312-02	acetone	UJ
G-32-20140904	14-09-0312-03	acetone	UJ
G-27-20140904	14-09-0312-04	acetone	UJ
BF-25-20140904	14-09-0312-05	acetone	UJ
G-35-20140904	14-09-0312-06	acetone	UJ
G-29-20140904	14-09-0312-07	acetone	UJ
MW-26-20140904	14-09-0312-08	acetone	UJ
BF-10-20140904	14-09-0312-09	acetone	UJ
G-9-20140904	14-09-0312-10	acetone	UJ
G-26-20140904	14-09-0312-11	acetone	UJ
G-2600-20140904	14-09-0312-12	acetone	UJ
BF-21-20140904	14-09-0312-13	acetone	UJ

G-24-20140904	14-09-0312-14	acetone	UJ
BF-17-20140904	14-09-0312-15	acetone	UJ
BF-15-20140904	14-09-0312-16	acetone	UJ
TB-20140905	14-09-0448-01	acetone	UJ
EB-20140905	14-09-0448-02	acetone	UJ
G-23-20140905	14-09-0448-03	acetone	UJ
MW-23-20140905	14-09-0448-04	acetone	UJ
MW-24-20140905	14-09-0448-05	acetone	UJ
MW-30-20140905	14-09-0448-06	acetone	UJ
MW-9-20140905	14-09-0448-07	acetone	UJ
MW-900-20140905	14-09-0448-08	acetone	UJ
BF-14-20140905	14-09-0448-09	acetone	UJ
G-OW-3-20140905	14-09-0448-10	acetone	UJ
G-13-20140905	14-09-0448-11	acetone	UJ
G-1300-20140905	14-09-0448-12	acetone	UJ
BF-16-20140905	14-09-0448-13	acetone	UJ
SWL0033-20140905	14-09-0448-14	acetone	UJ
SWL0034-20140905	14-09-0448-15	acetone	UJ
BF-24-20140905	14-09-0448-16	acetone	UJ
TB-20140908	14-09-0556-01	acetone	UJ
EB-20140908	14-09-0556-02	acetone	UJ
BF-30-20140908	14-09-0556-03	acetone	UJ
MW-10-20140908	14-09-0556-04	acetone	UJ
BF-23-20140908	14-09-0556-05	acetone	UJ
MW-5-20140908	14-09-0556-06	acetone	UJ
G-12-20140908	14-09-0556-07	acetone	UJ
BF-3-20140908	14-09-0556-08	acetone	UJ
TB-20140909	14-09-0658-01	acetone	UJ
EB-20140909	14-09-0658-02	acetone	UJ
MW-19-20140909	14-09-0658-03	acetone	UJ
MW-22-20140909	14-09-0658-04	acetone	UJ
MW-16-20140909	14-09-0658-05	acetone	UJ
G-25-20140909	14-09-0658-06	acetone	UJ
BF-5-20140909	14-09-0658-07	acetone	UJ
MW-6-20140909	14-09-0658-08	acetone	UJ
G-4-20140909	14-09-0658-09	acetone	UJ
G-8-20140909	14-09-0658-10	acetone	UJ
G-3-20140909	14-09-0658-11	acetone	UJ
MW-11-20140909	14-09-0658-12	acetone	UJ
TB-20140910	14-09-0760-01	acetone	UJ
EB-20140910	14-09-0760-02	acetone	UJ
LW-2-20140910	14-09-0760-04	acetone	UJ
LW-1-20140910	14-09-0760-05	acetone	UJ
LW-100-20140910	14-09-0760-06	acetone	UJ
BF-31-20140910	14-09-0760-07	acetone	UJ
TB-20140904	14-09-0312-01	bromomethane	UJ

EB-20140904	14-09-0312-02	bromomethane	UJ
G-32-20140904	14-09-0312-03	bromomethane	UJ
G-27-20140904	14-09-0312-04	bromomethane	UJ
BF-25-20140904	14-09-0312-05	bromomethane	UJ
G-35-20140904	14-09-0312-06	bromomethane	UJ
G-29-20140904	14-09-0312-07	bromomethane	UJ
MW-26-20140904	14-09-0312-08	bromomethane	UJ
BF-10-20140904	14-09-0312-09	bromomethane	UJ
G-9-20140904	14-09-0312-10	bromomethane	UJ
G-26-20140904	14-09-0312-11	bromomethane	UJ
G-2600-20140904	14-09-0312-12	bromomethane	UJ
BF-21-20140904	14-09-0312-13	bromomethane	UJ
G-24-20140904	14-09-0312-14	bromomethane	UJ
BF-17-20140904	14-09-0312-15	bromomethane	UJ
BF-15-20140904	14-09-0312-16	bromomethane	UJ
TB-20140905	14-09-0448-01	bromomethane	UJ
EB-20140905	14-09-0448-02	bromomethane	UJ
G-23-20140905	14-09-0448-03	bromomethane	UJ
MW-23-20140905	14-09-0448-04	bromomethane	UJ
MW-24-20140905	14-09-0448-05	bromomethane	UJ
MW-30-20140905	14-09-0448-06	bromomethane	UJ
MW-9-20140905	14-09-0448-07	bromomethane	UJ
MW-900-20140905	14-09-0448-08	bromomethane	UJ
BF-14-20140905	14-09-0448-09	bromomethane	UJ
G-OW-3-20140905	14-09-0448-10	bromomethane	UJ
G-13-20140905	14-09-0448-11	bromomethane	UJ
G-1300-20140905	14-09-0448-12	bromomethane	UJ
BF-16-20140905	14-09-0448-13	bromomethane	UJ
SWL0033-20140905	14-09-0448-14	bromomethane	UJ
SWL0034-20140905	14-09-0448-15	bromomethane	UJ
BF-24-20140905	14-09-0448-16	bromomethane	UJ
TB-20140908	14-09-0556-01	bromomethane	UJ
EB-20140908	14-09-0556-02	bromomethane	UJ
BF-30-20140908	14-09-0556-03	bromomethane	UJ
MW-10-20140908	14-09-0556-04	bromomethane	UJ
BF-23-20140908	14-09-0556-05	bromomethane	UJ
MW-5-20140908	14-09-0556-06	bromomethane	UJ
G-12-20140908	14-09-0556-07	bromomethane	UJ
BF-3-20140908	14-09-0556-08	bromomethane	UJ
TB-20140909	14-09-0658-01	bromomethane	UJ
EB-20140909	14-09-0658-02	bromomethane	UJ
MW-19-20140909	14-09-0658-03	bromomethane	UJ
MW-22-20140909	14-09-0658-04	bromomethane	UJ
MW-16-20140909	14-09-0658-05	bromomethane	UJ
G-25-20140909	14-09-0658-06	bromomethane	UJ
BF-5-20140909	14-09-0658-07	bromomethane	UJ

MW-6-20140909	14-09-0658-08	bromomethane	UJ
G-4-20140909	14-09-0658-09	bromomethane	UJ
G-8-20140909	14-09-0658-10	bromomethane	UJ
G-3-20140909	14-09-0658-11	bromomethane	UJ
MW-11-20140909	14-09-0658-12	bromomethane	UJ
TB-20140910	14-09-0760-01	bromomethane	UJ
EB-20140910	14-09-0760-02	bromomethane	UJ
LW-2-20140910	14-09-0760-04	bromomethane	UJ
LW-1-20140910	14-09-0760-05	bromomethane	UJ
LW-100-20140910	14-09-0760-06	bromomethane	UJ
BF-31-20140910	14-09-0760-07	bromomethane	UJ
TB-20140904	14-09-0312-01	naphthalene	UJ
EB-20140904	14-09-0312-02	naphthalene	UJ
G-32-20140904	14-09-0312-03	naphthalene	UJ
G-27-20140904	14-09-0312-04	naphthalene	UJ
BF-25-20140904	14-09-0312-05	naphthalene	UJ
G-35-20140904	14-09-0312-06	naphthalene	UJ
G-29-20140904	14-09-0312-07	naphthalene	UJ
MW-26-20140904	14-09-0312-08	naphthalene	UJ
BF-10-20140904	14-09-0312-09	naphthalene	UJ
G-9-20140904	14-09-0312-10	naphthalene	UJ
G-26-20140904	14-09-0312-11	naphthalene	UJ
G-2600-20140904	14-09-0312-12	naphthalene	UJ
BF-21-20140904	14-09-0312-13	naphthalene	UJ
G-24-20140904	14-09-0312-14	naphthalene	UJ
BF-17-20140904	14-09-0312-15	naphthalene	UJ
BF-15-20140904	14-09-0312-16	naphthalene	UJ
TB-20140905	14-09-0448-01	naphthalene	UJ
EB-20140905	14-09-0448-02	naphthalene	UJ
G-23-20140905	14-09-0448-03	naphthalene	UJ
MW-23-20140905	14-09-0448-04	naphthalene	UJ
MW-24-20140905	14-09-0448-05	naphthalene	UJ
MW-30-20140905	14-09-0448-06	naphthalene	UJ
MW-9-20140905	14-09-0448-07	naphthalene	UJ
MW-900-20140905	14-09-0448-08	naphthalene	UJ
BF-14-20140905	14-09-0448-09	naphthalene	UJ
G-OW-3-20140905	14-09-0448-10	naphthalene	UJ
G-13-20140905	14-09-0448-11	naphthalene	UJ
G-1300-20140905	14-09-0448-12	naphthalene	UJ
BF-16-20140905	14-09-0448-13	naphthalene	UJ
SWL0033-20140905	14-09-0448-14	naphthalene	UJ
SWL0034-20140905	14-09-0448-15	naphthalene	UJ
BF-24-20140905	14-09-0448-16	naphthalene	UJ
TB-20140908	14-09-0556-01	naphthalene	UJ
EB-20140908	14-09-0556-02	naphthalene	UJ
BF-30-20140908	14-09-0556-03	naphthalene	UJ

MW-10-20140908	14-09-0556-04	naphthalene	UJ
BF-23-20140908	14-09-0556-05	naphthalene	UJ
MW-5-20140908	14-09-0556-06	naphthalene	UJ
G-12-20140908	14-09-0556-07	naphthalene	UJ
BF-3-20140908	14-09-0556-08	naphthalene	UJ
TB-20140909	14-09-0658-01	naphthalene	UJ
EB-20140909	14-09-0658-02	naphthalene	UJ
MW-19-20140909	14-09-0658-03	naphthalene	UJ
MW-22-20140909	14-09-0658-04	naphthalene	UJ
MW-16-20140909	14-09-0658-05	naphthalene	UJ
G-25-20140909	14-09-0658-06	naphthalene	UJ
BF-5-20140909	14-09-0658-07	naphthalene	UJ
MW-6-20140909	14-09-0658-08	naphthalene	UJ
G-4-20140909	14-09-0658-09	naphthalene	UJ
G-8-20140909	14-09-0658-10	naphthalene	UJ
G-3-20140909	14-09-0658-11	naphthalene	UJ
MW-11-20140909	14-09-0658-12	naphthalene	UJ
TB-20140910	14-09-0760-01	naphthalene	UJ
EB-20140910	14-09-0760-02	naphthalene	UJ
LW-2-20140910	14-09-0760-04	naphthalene	UJ
LW-1-20140910	14-09-0760-05	naphthalene	UJ
LW-100-20140910	14-09-0760-06	naphthalene	UJ
BF-31-20140910	14-09-0760-07	naphthalene	UJ

SW8260B ICV Results Exceeding 25%D:

ICV Instrument	**Date Time**	**Compound**	**%D**	**Qualifier**
GCMS L	09/16/14 17:54	Acetone	-43	UJ

Associated Samples:

Field Sample	**Laboratory Sample**	**Compound**	**Qualifier**
G-1-20140909	14-09-0658-13	acetone	UJ
G-100-20140909	14-09-0658-14	acetone	UJ
MW-12-20140909	14-09-0658-16	acetone	UJ
BF-11-20140909	14-09-0658-17	acetone	UJ
MW-4-20140909	14-09-0658-18	acetone	UJ
BF-4-20140909	14-09-0658-19	acetone	UJ
G-17-20140910	14-09-0760-08	acetone	UJ
G-1700-20140910	14-09-0760-09	acetone	UJ
G-5-20140910	14-09-0760-10	acetone	UJ
G-2-20140910	14-09-0760-11	acetone	UJ
BF-9-20140910	14-09-0760-12	acetone	UJ
BF-2-20140910	14-09-0760-13	acetone	UJ
MW-1-20140910	14-09-0760-14	acetone	UJ
MW-2-20140910	14-09-0760-15	acetone	UJ
G-30-20140911	14-09-0943-01	acetone	J

TB-20140911	14-09-0943-02	acetone	UJ
EB-20140911	14-09-0943-03	acetone	UJ
LW-5-20140911	14-09-0943-04	acetone	UJ
G-33-20140911	14-09-0943-05	acetone	UJ
G-21-20140911	14-09-0943-06	acetone	UJ
BF-35-20140911	14-09-0943-09	acetone	UJ
TB-20140915	14-09-1187-01	acetone	UJ
EB-20140915	14-09-1187-02	acetone	UJ
LW-7-20140915	14-09-1187-03	acetone	UJ
BF-32A-20140915	14-09-1187-04	acetone	UJ
BF-19-20140915	14-09-1187-05	acetone	UJ
G-14-20140915	14-09-1187-06	acetone	UJ
G-11-20140915	14-09-1187-07	acetone	UJ
TB-20140916	14-09-1264-01	acetone	UJ
EB-20140916	14-09-1264-02	acetone	UJ
G-16-20140916	14-09-1264-03	acetone	UJ
LG-1-20140916	14-09-1264-04	acetone	UJ
LG-100-20140916	14-09-1264-05	acetone	UJ
G-15-20140916	14-09-1264-06	acetone	UJ
LG-2-20140916	14-09-1264-07	acetone	UJ
BF-29-20140916	14-09-1264-08	acetone	J
BF-12-20140916	14-09-1264-09	acetone	UJ
BF-1200-20140916	14-09-1264-10	acetone	UJ
TB-20140918	14-09-1462-01	acetone	UJ
EB-20140918	14-09-1462-02	acetone	UJ
LW-6-20140918	14-09-1462-03	acetone	UJ
EB-20140919	14-09-1606-01	acetone	J
TB-20140919	14-09-1606-02	acetone	UJ
LW-4-20140919	14-09-1606-03	acetone	UJ

Daily continuing calibration verification standards (CCVs) met the ≤25 %D (or ≤40 %D for VOCs in Table 1.0 of the NFGs for VOCs) requirements specified in the NFGs, with the following exceptions. Nondetected results associated with CCV %Ds greater than 25% (or ≤40 %D for VOCs in Table 1.0 of the NFGs for VOCs) are qualified as estimated (UJ) and detected results are qualified as estimated (J), as presented below. Note that negative %Ds indicate high bias in the CCV.

SW8260B CCV Results Exceeding 25%D:

CCV Instrument	**Date Time**	**Compound**	**%D**	**Qualifier**
GCMS L	09/12/14 23:05	Bromoform	33	UJ
GCMS L	09/12/14 23:05	Bromomethane	-45	UJ

Associated Samples:

Field Sample	**Laboratory Sample**	**Compound**	**Qualifier**

TB-20140909	14-09-0658-01	bromoform	UJ
EB-20140909	14-09-0658-02	bromoform	UJ
MW-19-20140909	14-09-0658-03	bromoform	UJ
MW-22-20140909	14-09-0658-04	bromoform	UJ
MW-16-20140909	14-09-0658-05	bromoform	UJ
G-25-20140909	14-09-0658-06	bromoform	UJ
TB-20140909	14-09-0658-01	bromomethane	UJ
EB-20140909	14-09-0658-02	bromomethane	UJ
MW-19-20140909	14-09-0658-03	bromomethane	UJ
MW-22-20140909	14-09-0658-04	bromomethane	UJ
MW-16-20140909	14-09-0658-05	bromomethane	UJ
G-25-20140909	14-09-0658-06	bromomethane	UJ

SW8260B CCV Results Exceeding 25%D:

CCV Instrument	**Date Time**	**Compound**	**%D**	**Qualifier**
GCMS L	09/15/14 10:00	Bromoform	33	UJ
GCMS L	09/15/14 10:00	Bromomethane	-33	UJ

Associated Samples:

Field Sample	**Laboratory Sample**	**Compound**	**Qualifier**
BF-5-20140909	14-09-0658-07	bromoform	UJ
MW-6-20140909	14-09-0658-08	bromoform	UJ
G-4-20140909	14-09-0658-09	bromoform	UJ
G-8-20140909	14-09-0658-10	bromoform	UJ
G-3-20140909	14-09-0658-11	bromoform	UJ
MW-11-20140909	14-09-0658-12	bromoform	UJ
TB-20140910	14-09-0760-01	bromoform	UJ
EB-20140910	14-09-0760-02	bromoform	UJ
LW-2-20140910	14-09-0760-04	bromoform	UJ
LW-1-20140910	14-09-0760-05	bromoform	UJ
LW-100-20140910	14-09-0760-06	bromoform	UJ
BF-5-20140909	14-09-0658-07	bromomethane	UJ
MW-6-20140909	14-09-0658-08	bromomethane	UJ
G-4-20140909	14-09-0658-09	bromomethane	UJ
G-8-20140909	14-09-0658-10	bromomethane	UJ
G-3-20140909	14-09-0658-11	bromomethane	UJ
MW-11-20140909	14-09-0658-12	bromomethane	UJ
TB-20140910	14-09-0760-01	bromomethane	UJ
EB-20140910	14-09-0760-02	bromomethane	UJ
LW-2-20140910	14-09-0760-04	bromomethane	UJ
LW-1-20140910	14-09-0760-05	bromomethane	UJ
LW-100-20140910	14-09-0760-06	bromomethane	UJ

SW8260B CCV Results Exceeding 25%D:
CCV

Instrument	Date Time	Compound	%D	Qualifier
GCMS L	09/15/14 23:10	Bromoform	29	UJ
GCMS L	09/15/14 23:10	Carbon Disulfide	-27	UJ

Associated Samples:

Field Sample	Laboratory Sample	Compound	Qualifier
BF-31-20140910	14-09-0760-07	bromoform	UJ
BF-31-20140910	14-09-0760-07	carbon disulfide	UJ

SW8260B CCV Results Exceeding 25%D:
CCV

Instrument	Date Time	Compound	%D	Qualifier
GCMS58	10/01/14 17:59	2,2-Dichloropropane	-38.4	UJ
GCMS58	10/01/14 17:59	Carbon Disulfide	-27.6	UJ

Associated Samples:

Field Sample	Laboratory Sample	Compound	Qualifier
TB-20140930	440-89327-01	2,2-dichloropropane	UJ
TB-20140930	440-89327-01	carbon tetrachloride	UJ

SW8260B CCV Results Exceeding 25%D:
CCV

Instrument	Date Time	Compound	%D	Qualifier
GCMS59	10/02/14 07:17	Acetone	-42.9	UJ

Associated Samples:

Field Sample	Laboratory Sample	Compound	Qualifier
WL0049-20140930	440-89327-02	acetone	UJ

- **E314.0-MOD**

ICAL, ICV, and CCV data were reported and reviewed for all samples. Initial calibration data for the pCBSA analyses met the requirements of correlation coefficient $\geq$0.990 and ICV and CCV $\leq$10 %D. No data were qualified due to calibrations.

Blanks

- **SW8260B**

No contamination was detected above the reporting limit in any of the method blanks, equipment blanks, or trip blanks associated with all reported results for this analysis, with the following exceptions.

Trace detections (results detected between the RL and MDL) or detections marginally above the reporting limit were reported for the VOCs and equipment blanks listed below. All associated results were non-detected and no data were qualified, with the exception of the result reported at the reporting limit for chlorobenzene in sample BF-31-20140910 (14-09-0760-07) and the trace result for acetone and result reported marginally above the RL for tert-butyl alcohol (TBA) in sample LW-4-20150113 (15-01-0665-3) that were blank-qualified (U) as non-detected at the reported concentrations due to the trace detections in equipment blanks EB-20140910 and EB-20150113. No data other data were qualified for blank detections.

Equipment Blank	Sample Date	Analyte	Result (µg/L)	Reporting Limit (µg/L)
EB-20140903	09/06/14	methylene chloride	0.41	1.0
EB-20140905	09/11/14	methylene chloride	1.3	1.0
EB-20140908	09/11/14	methylene chloride	0.92	1.0
EB-20140909	09/13/14	methylene chloride	0.53	1.0
EB-20140910	09/15/14	chlorobenzene	0.22	0.50
EB-20140911	09/18/14	methylene chloride	0.47	1.0
EB-20140918	09/20/14	chloroform	0.28	0.50
EB-20140919	09/20/14	acetone	3.7	10
EB-20140919	09/20/14	toluene	0.43	0.50
EB-20150113	01/13/14	acetone	3.8	10
EB-20150113	01/13/14	chloroform	0.022	0.50
EB-20150113	01/13/14	tert-butyl alcohol	8.0	10

Note that the trace detections for the common laboratory contaminant acetone in samples G-1-20140909 (14-09-0658-13), G-30-20140911 (14-09-0943-01), BF-32A-20140915 (14-09-1187-04), G-11-20140915 (14-09-1187-07), and BF-29-20140916 (14-09-1264-08), although not detected in any of the associated blanks, may be laboratory artifacts and should be considered to be a potential false positive or biased high.

- **E314.0-MOD**

No contamination was detected above the reporting limit in any of the method blanks, initial calibration blanks (ICBs), continuing calibration blanks (CCBs), or equipment blanks associated with all reported results for this analysis, with the following exception. pCBSA was detected at 45 µg/L in the CCB for the analytical run performed on

09/09/14. Results for the associated samples reported from this analytical run were greater than 10-times the concentration of the CCB. Additional samples from this run were reanalyzed with a non-detected CCB. No data were qualified for blank detections.

Surrogate Recoveries

- **SW8260B**

  Surrogate recoveries associated with all reported results for the SW8260B analyses were acceptable.

Internal Standard Areas

- **SW8260B**

  Internal standard data were reported and reviewed for all samples. Internal standard areas associated with all reported results were acceptable.

Laboratory Control Samples

- **SW8260B**

  The recoveries for all laboratory control samples (LCSs) were acceptable, with the following exceptions. The percent recoveries (%R) for the VOCs in the LCSs listed below exceeded the 180-120 %R control limits for the specified batches. For LCSs with high bias, no qualifiers were assigned to associated sample results with non-detected results in data validation. For LCSs with high bias, detected results are qualified as estimated (J), and for LCSs with low bias, detected results are qualified as estimated (UJ) in data validation, as presented below.

SW8260B LCS Results Exceeding Control Limits:

LCS Batch	Compound	%R	Control Limits (%R)	Qualifier
140909L033	Acetone	171	80-120	No Q All ND
140909L033	Bromomethane	131	80-120	No Q All ND
140909L033	Naphthalene	126	80-120	No Q All ND
140910L001	Acetone	179	80-120	No Q All ND
140910L001	2-Butanone	142	80-120	No Q All ND
140910L001	2-Hexanone	129	80-120	No Q All ND

SW8260B LCS Results Exceeding Control Limits:

LCS Batch	Compound	%R	Control Limits (%R)	Qualifier

140911L002	Acetone	188	80-120	No Q All ND
140911L002	2-Butanone	140	80-120	No Q All ND
140911L002	2-Hexanone	128	80-120	No Q All ND

SW8260B LCS Results Exceeding Control Limits:

LCS Batch	Compound	%R	Control Limits (%R)	Qualifier
140912L003	Acetone	185	80-120	No Q All ND
140912L003	2-Butanone	152	80-120	No Q All ND
140912L003	2-Hexanone	124	80-120	No Q All ND

LCS Batch	Compound	%R	Control Limits (%R)	Qualifier
140912L051	Bromoform	72	80-120	UJ
140912L051	Bromomethane	128	80-120	No Q All ND

Associated Samples:

Field Sample	Laboratory Sample	Compound	Qualifier
TB-20140909	14-09-0658-01	bromoform	UJ
EB-20140909	14-09-0658-02	bromoform	UJ
MW-19-20140909	14-09-0658-03	bromoform	UJ
MW-22-20140909	14-09-0658-04	bromoform	UJ
MW-16-20140909	14-09-0658-05	bromoform	UJ
G-25-20140909	14-09-0658-06	bromoform	UJ

LCS Batch	Compound	%R	Control Limits (%R)	Qualifier
140915L003	Acetone	195	80-120	No Q All ND
140915L003	Bromoform	72	80-120	UJ
140915L003	Bromomethane	131	80-120	No Q All ND
140915L003	2-Butanone	130	80-120	No Q All ND
140915L003	Chloromethane	124	80-120	No Q All ND
140915L003	1,2-Dibromo-3-Chloropropane (DBCP)	78	80-120	UJ
140915L003	Dichlorodifluoromethane	128	80-120	No Q All ND

Associated Samples:

Field Sample	Laboratory Sample	Compound	Qualifier
BF-5-20140909	14-09-0658-07	bromoform	UJ
MW-6-20140909	14-09-0658-08	bromoform	UJ
G-4-20140909	14-09-0658-09	bromoform	UJ
G-8-20140909	14-09-0658-10	bromoform	UJ
G-3-20140909	14-09-0658-11	bromoform	UJ
MW-11-20140909	14-09-0658-12	bromoform	UJ
TB-20140910	14-09-0760-01	bromoform	UJ
EB-20140910	14-09-0760-02	bromoform	UJ

LW-2-20140910	14-09-0760-04	bromoform	UJ
LW-1-20140910	14-09-0760-05	bromoform	UJ
LW-100-20140910	14-09-0760-06	bromoform	UJ
BF-5-20140909	14-09-0658-07	DBCP	UJ
MW-6-20140909	14-09-0658-08	DBCP	UJ
G-4-20140909	14-09-0658-09	DBCP	UJ
G-8-20140909	14-09-0658-10	DBCP	UJ
G-3-20140909	14-09-0658-11	DBCP	UJ
MW-11-20140909	14-09-0658-12	DBCP	UJ
TB-20140910	14-09-0760-01	DBCP	UJ
EB-20140910	14-09-0760-02	DBCP	UJ
LW-2-20140910	14-09-0760-04	DBCP	UJ
LW-1-20140910	14-09-0760-05	DBCP	UJ
LW-100-20140910	14-09-0760-06	DBCP	UJ

LCS Batch	**Compound**	**%R**	**Control Limits (%R)**	**Qualifier**
140915L023	Acetone	129	80-120	No Q All ND
140915L023	Bromoform	74	80-120	UJ
140915L023	Bromomethane	134	80-120	No Q All ND
140915L023	Chloromethane	136	80-120	No Q All ND
140915L023	Dichlorodifluoromethane	129	80-120	No Q All ND
140915L023	Methylene Chloride	128	80-120	No Q All ND
140915L023	Vinyl Chloride	133	80-120	No Q All ND

Associated Samples:

Field Sample	**Laboratory Sample**	**Compound**	**Qualifier**
BF-5-20140909	14-09-0658-07	bromoform	UJ

LCS Batch	**Compound**	**%R**	**Control Limits (%R)**	**Qualifier**
140916L025	Acetone	144	80-120	No Q All ND
140916L025	Bromomethane	122	80-120	No Q All ND
140916L025	Naphthalene	125	80-120	No Q All ND

LCS Batch	**Compound**	**%R**	**Control Limits (%R)**	**Qualifier**
140918L001	Acetone	166	80-120	No Q All ND
140918L001	2-Butanone	138	80-120	No Q All ND
140918L001	t-1,3-Dichloropropene	76	80-120	UJ

Associated Samples:

Field Sample	**Laboratory Sample**	**Compound**	**Qualifier**
G-30-20140911	14-09-0943-01	t-1,3-dichloropropene	J
TB-20140911	14-09-0943-02	t-1,3-dichloropropene	UJ
EB-20140911	14-09-0943-03	t-1,3-dichloropropene	UJ

LW-5-20140911	14-09-0943-04	t-1,3-dichloropropene	UJ
G-33-20140911	14-09-0943-05	t-1,3-dichloropropene	UJ
G-21-20140911	14-09-0943-06	t-1,3-dichloropropene	UJ
BF-35-20140911	14-09-0943-09	t-1,3-dichloropropene	UJ

LCS Batch	**Compound**	**%R**	**Control Limits (%R)**	**Qualifier**
140919L001	Acetone	191	80-120	No Q All ND
140919L001	2-Butanone	160	80-120	No Q All ND
140919L001	t-1,3-Dichloropropene	79	80-120	UJ
140919L001	2-Hexanone	130		No Q All ND

Associated Samples:

Field Sample	**Laboratory Sample**	**Compound**	**Qualifier**
TB-20140915	14-09-1187-01	t-1,3-dichloropropene	UJ
EB-20140915	14-09-1187-02	t-1,3-dichloropropene	UJ
LW-7-20140915	14-09-1187-03	t-1,3-dichloropropene	UJ
BF-32A-20140915	14-09-1187-04	t-1,3-dichloropropene	UJ
BF-19-20140915	14-09-1187-05	t-1,3-dichloropropene	UJ
G-14-20140915	14-09-1187-06	t-1,3-dichloropropene	UJ
G-11-20140915	14-09-1187-07	t-1,3-dichloropropene	UJ
TB-20140916	14-09-1264-01	t-1,3-dichloropropene	UJ
EB-20140916	14-09-1264-02	t-1,3-dichloropropene	UJ
G-16-20140916	14-09-1264-03	t-1,3-dichloropropene	UJ
LG-1-20140916	14-09-1264-04	t-1,3-dichloropropene	UJ
LG-100-20140916	14-09-1264-05	t-1,3-dichloropropene	UJ
G-15-20140916	14-09-1264-06	t-1,3-dichloropropene	UJ
LG-2-20140916	14-09-1264-07	t-1,3-dichloropropene	UJ

LCS Batch	**Compound**	**%R**	**Control Limits (%R)**	**Qualifier**
140920L012	Acetone	202	80-120	J
140920L012	2-Butanone	143	80-120	No Q All ND
140920L012	2-Hexanone	133	80-120	No Q All ND

Associated Samples:

Field Sample	**Laboratory Sample**	**Compound**	**Qualifier**
BF-29-20140916	14-09-1264-08	acetone	J
EB-20140919	14-09-1606-01	acetone	J

LCS Batch	**Compound**	**%R**	**Control Limits (%R)**	**Qualifier**
140920L012	Acetone	202	80-120	No Q All ND
140920L012	2-Butanone	143	80-120	No Q All ND
140920L012	2-Hexanone	133	80-120	No Q All ND

SW8260B LCS Results Exceeding Control Limits:

LCS Batch	Compound	%R	Control Limits (%R)	Qualifier
150114L005	Acetone	152	80-120	J
150114L005	2-Butanone	139	80-120	No Q All ND
150114L005	1,2-Dibromo-3-Chloropropane	121	80-120	No Q All ND
150114L005	4-Methyl-2-Pentanone	122	80-120	No Q All ND
150114L005	2-Hexanone	134	80-120	No Q All ND
150114L005	Naphthalene	121	80-120	No Q All ND

Associated Samples:

Field Sample	Laboratory Sample	Compound	Qualifier
EB-20150113	15-01-0665-02	acetone	J
LW-4-20150113	15-01-0665-03	acetone	J

- **E314.0-MOD**

The recoveries for all LCSs were acceptable for this method.

Matrix Spike/Matrix Spike Duplicates

MS/MSD analyses were performed on project samples at a minimum frequency of 1:20 samples. In some cases, MS/MSD analyses were performed on non-project samples. MS/MSD analyses for non-project samples are not applicable to the project sample matrices, and are not included in this validation report.

Where applicable, results for MS/MSD outliers are qualified in the parent samples only, as it is not possible to determine if other samples are of a similar matrix as demonstrated by acceptable recoveries in other MS/MSD samples. MS/MSD recoveries for samples with results greater than 4-times the spike are not evaluated with respect to control limits, and are considered acceptable per the NFGs.

- **SW8260B**

MS/MSD analyses were performed for this method on the samples listed below.

Field Sample	Laboratory Sample ID
BF-27-20140903	14-09-0173-04
G-27-20140904	14-09-0312-04
MW-26-20140904	14-09-0312-08
G-23-20140905	14-09-0448-03
BF-1-20140908*	14-09-0554-02
BF-30-20140908	14-09-0556-03

MW-19-20140909	14-09-0658-03
G-1-20140909	14-09-0658-13
MW17-20140909*	14-09-0659-02
LW-2-20140910	14-09-0760-04
BF-31-20140910	14-09-0760-07
G-17-20140910	14-09-0760-08
G-21-20140911	14-09-0943-06
LW-7-20140915	14-09-1187-03
LW-6-20140918	14-09-1462-03
LW-4-20150113	15-01-0665-03

*FOs only

MS/MSD recoveries and the RPDs between MS/MSDs were acceptable, with the following exceptions (all RPDs were acceptable).

MS/MSD Field Sample	**Compound**	**MS (%R)**	**MSD (%R)**	**Control Limits (%R)**	**Qualifier**
BF-27-20140903	Bromoform	71	75	80-120	UJ
BF-27-20140903	Dibromochloromethane	79	87	80-120	UJ
G-27-20140904	All OK				
MW-26-20140904	All OK				
G-23-20140905	Bromoform	77	82	80-120	UJ
G-23-20140905	DBCP	75	86	80-120	UJ
G-23-20140905	2,2-Dichloropropane	68	68	80-120	UJ
G-23-20140905	Tert-Butyl Alcohol	162	107	80-120	No Q ND
BF-1-20140908	FOs All OK				
BF-30-20140908	All OK				
MW-19-20140909	Bromoform	71	77	80-120	UJ
MW-19-20140909	Bromomethane	123	119	80-120	No Q ND
MW-19-20140909	2-Butanone	85	74	80-120	UJ
MW-19-20140909	Chloroform	93	77	80-120	J
MW-19-20140909	Chloromethane	121	120	80-120	UJ
MW-19-20140909	DBCP	75	82	80-120	No Q ND
MW-19-20140909	2,2-Dichloropropane	79	72	80-120	UJ
MW-19-20140909	t-1,3-Dichloropropene	81	78	80-120	UJ
MW-19-20140909	Styrene	80	76	80-120	UJ
G-1-20140909	2-Butanone	81	120	80-120	No Q ND
G-1-20140909	Naphthalene	117	122	80-120	No Q ND

MW17-20140909	FOs All OK				
LW-2-20140910	Bromoform	67	76	80-120	UJ
LW-2-20140910	Chloroethane	123	103	80-120	No Q ND
LW-2-20140910	DBCP	77	83	80-120	UJ
LW-2-20140910	Dichlorodifluoromethane	129	125	80-120	No Q ND
LW-2-20140910	Methylene Chloride	121	117	80-120	No Q ND
BF-31-20140910	Bromoform	69	77	80-120	UJ
BF-31-20140910	Carbon Disulfide	127	133	80-120	No Q ND
BF-31-20140910	Chloroethane	148	145	80-120	No Q ND
BF-31-20140910	Chloromethane	127	137	80-120	No Q ND
BF-31-20140910	Dichlorodifluoromethane	118	129	80-120	No Q ND
BF-31-20140910	t-1,2-Dichloroethene	116	124	80-120	No Q ND
BF-31-20140910	t-1,3-Dichloropropene	77	81	80-120	UJ
BF-31-20140910	Methylene Chloride	123	133	80-120	No Q ND
BF-31-20140910	Vinyl Chloride	126	143	80-120	No Q ND
G-17-20140910	Bromomethane	72	68	80-120	UJ
G-17-20140910	Chloroethane	120	133	80-120	No Q ND
G-17-20140910	t-1,3-Dichloropropene	78	82	80-120	UJ
G-21-20140911	Chloromethane	107	121	80-120	No Q ND
G-21-20140911	Trichloroethene	NC	NC	80-120	No Q NC
LW-7-20140915	Bromomethane	57	65	80-120	UJ
LW-7-20140915	Chloromethane	139	117	80-120	No Q ND
LW-7-20140915	t-1,3-Dichloropropene	77	80	80-120	UJ
LW-6-20140918	t-1,3-Dichloropropene	77	78	80-120	UJ
LW-6-20140918	Tetrachloroethene	86	78	80-120	UJ
LW-4-20150113	Acetone	151	131	80-120	J

No Q = No Qualifier
NC = Not calculated, sample >4x Spike
ND = Non-detect
%R = Percent Recovery

As the associated LCS/LCSD results were generally acceptable, the MS/MSD outliers are attributed to matrix interference.

- **E314.0-MOD**

MS/MSD analyses were performed for this method on the samples listed below.

Field Sample	Laboratory Sample ID
BF-27-20140903	14-09-0173-04
G-27-20140904	14-09-0312-04
MW-26-20140904	14-09-0312-08
G-23-20140905	14-09-0448-03
G-20-20140908	14-09-0554-04
BF-30-20140908	14-09-0556-03
MW-22-20140909	14-09-0658-04
LW-2-20140910	14-09-0760-04
BF-31-20140910	14-09-0760-07
G-21-20140911	14-09-0943-06
BF-19-20140915	14-09-1187-05
G-15-20140916	14-09-1264-06
LW-6-20140918	14-09-1462-03
LW-4-20140919	14-09-1606-03
SWL0049-20140930	14-09-2424-01

The recoveries for all MS/MSDs and RPDs between MS/MSDs were acceptable for this method.

Sample Information

Results Exceeding Calibration Range

All analytical results and RLs are adjusted for stoichiometric factors such as extraction volumes and for dilutions required for high concentrations of target analytes to be quantitated within the calibration range of the instrument.

Samples with results exceeding the calibration range were reanalyzed at appropriate dilutions, and the results from the more diluted reanalyses are used for reporting purposes for those analytes. No results used for reporting purposes exceeded the calibration range.

Field Precision

Nine field duplicate sample pairs were collected for 97 normal samples (9.3 percent frequency) for this sampling round for EPA Method SW8260B and nine field duplicate sample pairs were collected for 101 normal samples (8.9 percent frequency) for this sampling round for Method E314.0-MOD. The guideline for relative percent difference (RPD) between sample and field duplicate sample results is 30 RPD. The RPD value is not defined and cannot be calculated for field duplicate pairs for which one or both results are below RLs. For values less than five-times the RL, RPDs will not be used for evaluation. In these cases, the 30 RPD guideline may not be appropriate, and results

within ±RL for waters are considered acceptable. If one result is non-detect, the RL is used as the result for the non-detect in these calculations.

- **SW8260B**

  All field duplicate sample results were within the specified criteria.

- **E314.0-MOD**

  All field duplicate sample results were within the specified criteria.

APPENDIX D

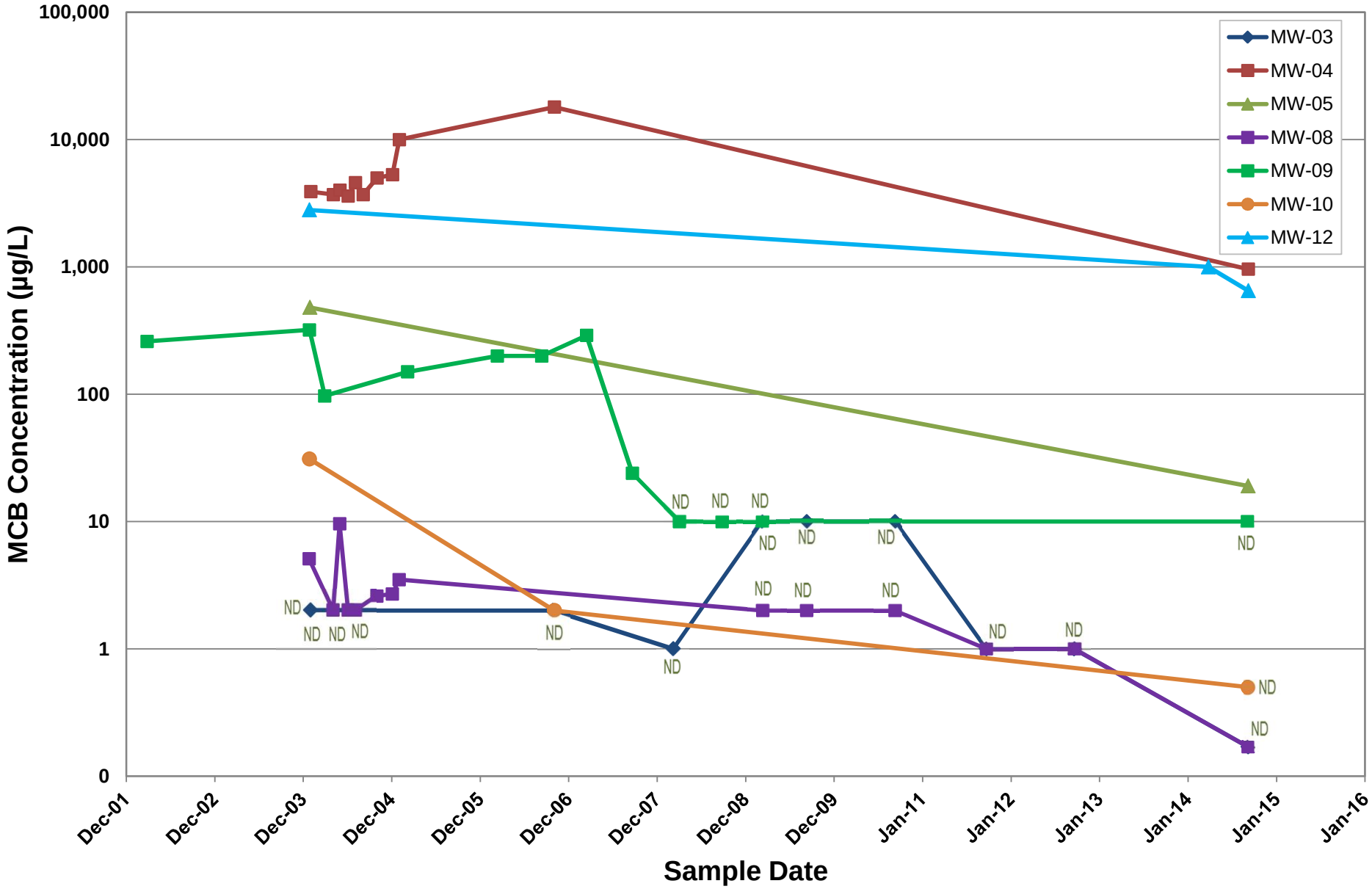
CHLOROBENZENE
CONCENTRATION VS TIME GRAPHS
FOR SELECTED WELLS

APPENDIX D

CHLOROBENZENE CONCENTRATION VS TIME GRAPHS FOR SELECTED WELLS

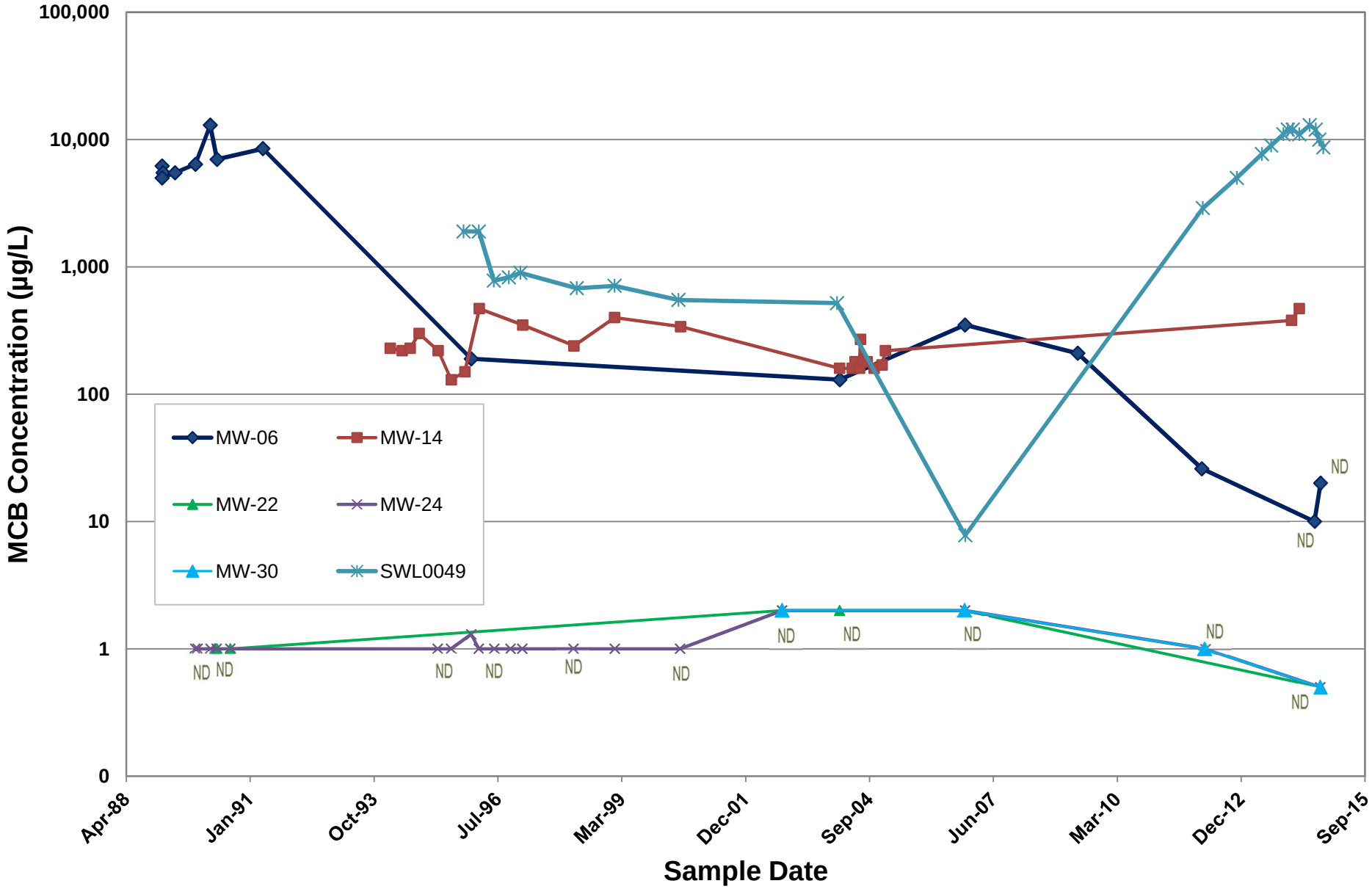
Figure D-1: MCB Concentration vs time North of the Montrose property in the UBF
Figure D-2: MCB Concentration vs time South of the Montrose property in the UBF
Figure D-3: MCB Concentration vs time North of the Montrose property in the MBFC
Figure D-4: MCB Concentration vs time South of the Montrose property in the MBFC
Figure D-5: MCB Concentration vs time East of the Montrose property in the MBFC
Figure D-6: MCB Concentration vs time West of the Montrose property in the MBFC
Figure D-7: MCB Concentration vs time West of the Montrose property in the Gage
Figure D-8: MCB Concentration vs time South East of the Montrose property in the Gage
Figure D-9: MCB Concentration vs time on the Montrose property in the Gage

Figure D-1
MCB Concentration vs time North of the Montrose Property in the UBF
Montrose Superfund Site



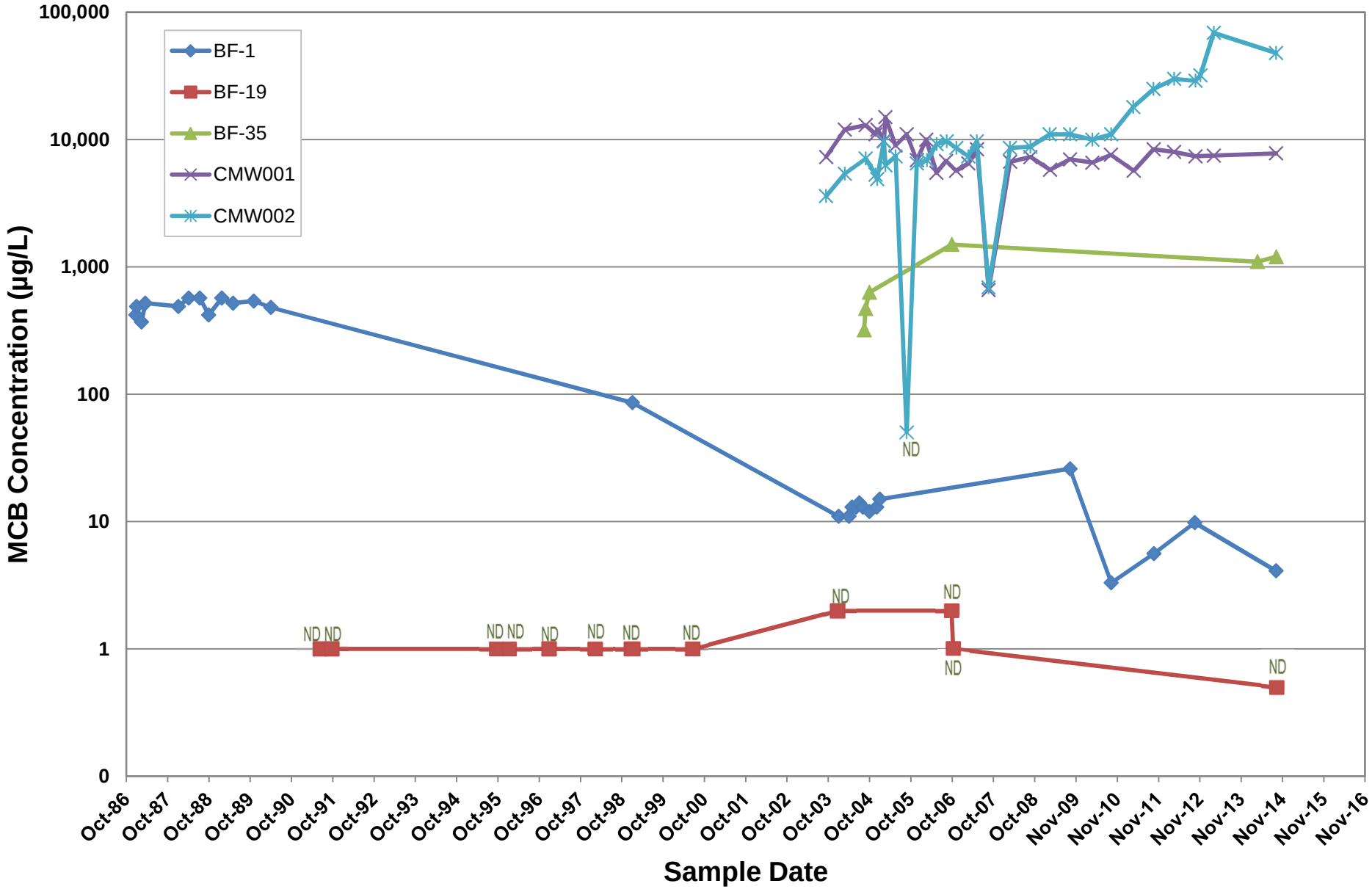
ND = Non detect. Concentrations noted as ND are shown as the laboratory reporting limit.

Figure D-2
MCB Concentration vs time South of the Montrose Property in the UBF
Montrose Superfund Site



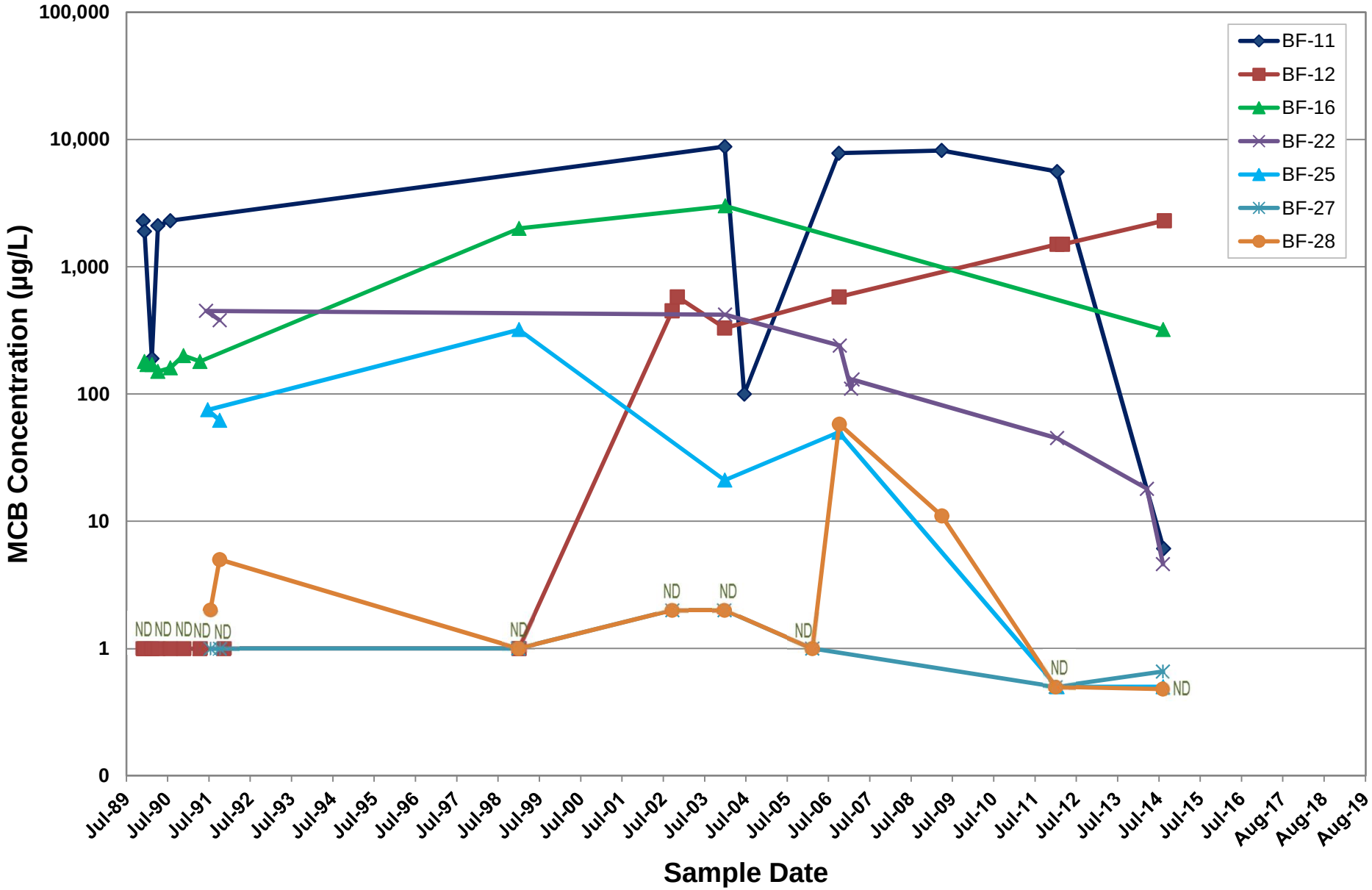
ND = Non detect. Concentrations noted as ND are shown as the laboratory reporting limit.

Figure D-3
MCB Concentration vs Time North of the Montrose Property in the MBFC
Montrose Superfund Site



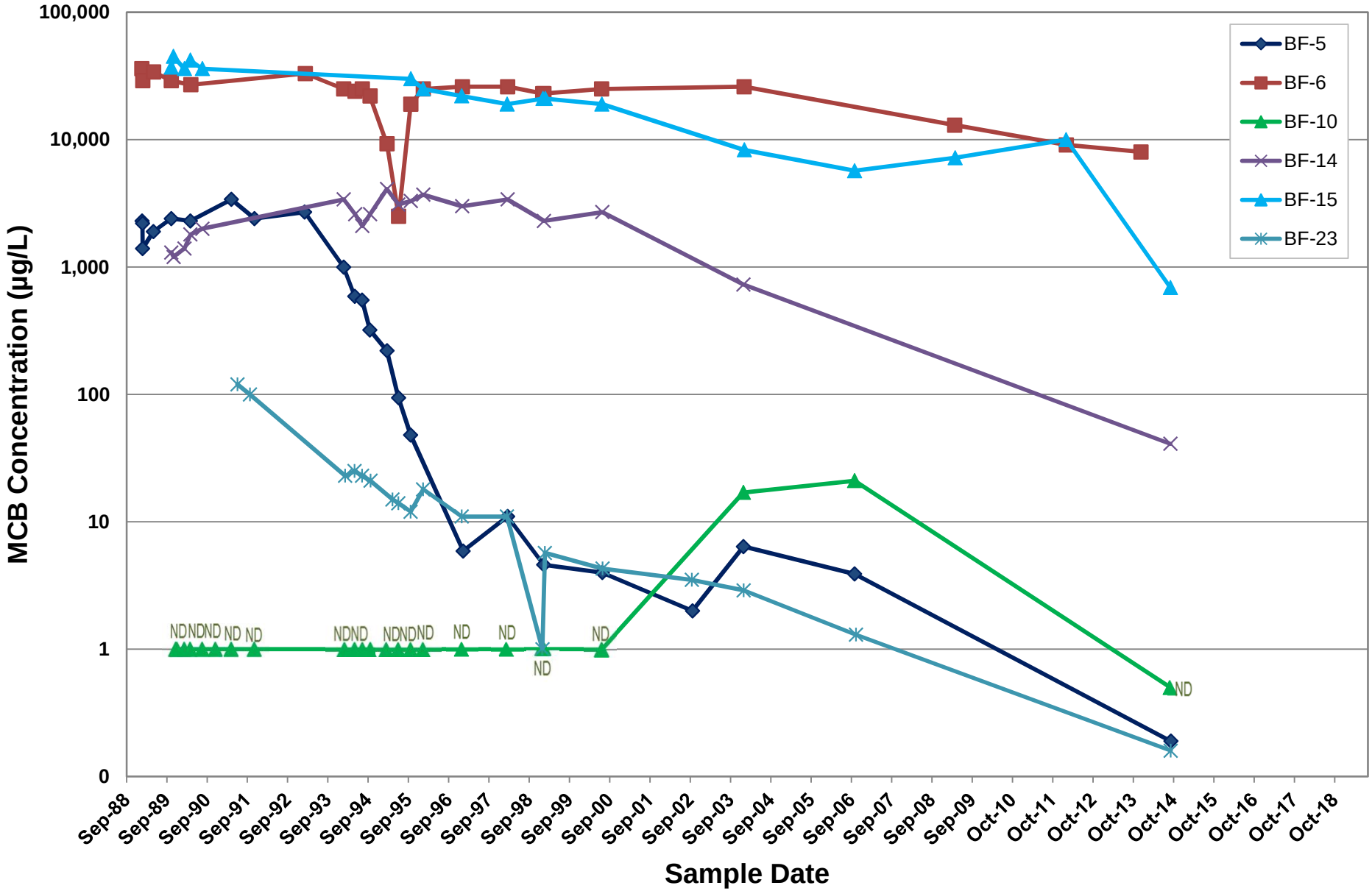
ND = Non detect. Concentrations noted as ND are shown as the laboratory reporting limit.

Figure D-4
MCB Concentration vs Time South of the Montrose Property in the MBFC
Montrose Superfund Site



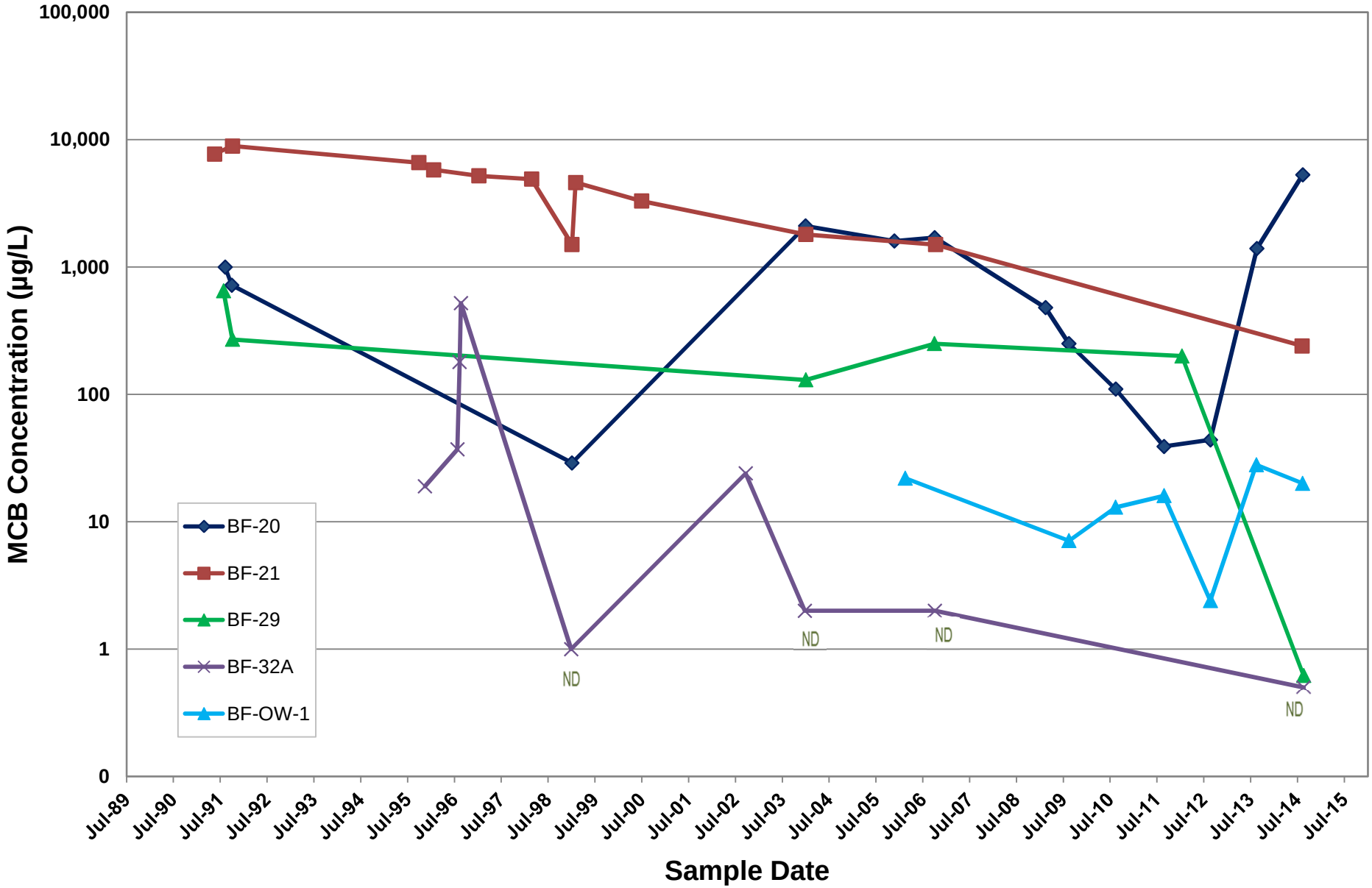
ND = Non detect. Concentrations noted as ND are shown as the laboratory reporting limit.

Figure D-5
MCB Concentration vs Time East of the Montrose Property in the MBFC
Montrose Superfund Site



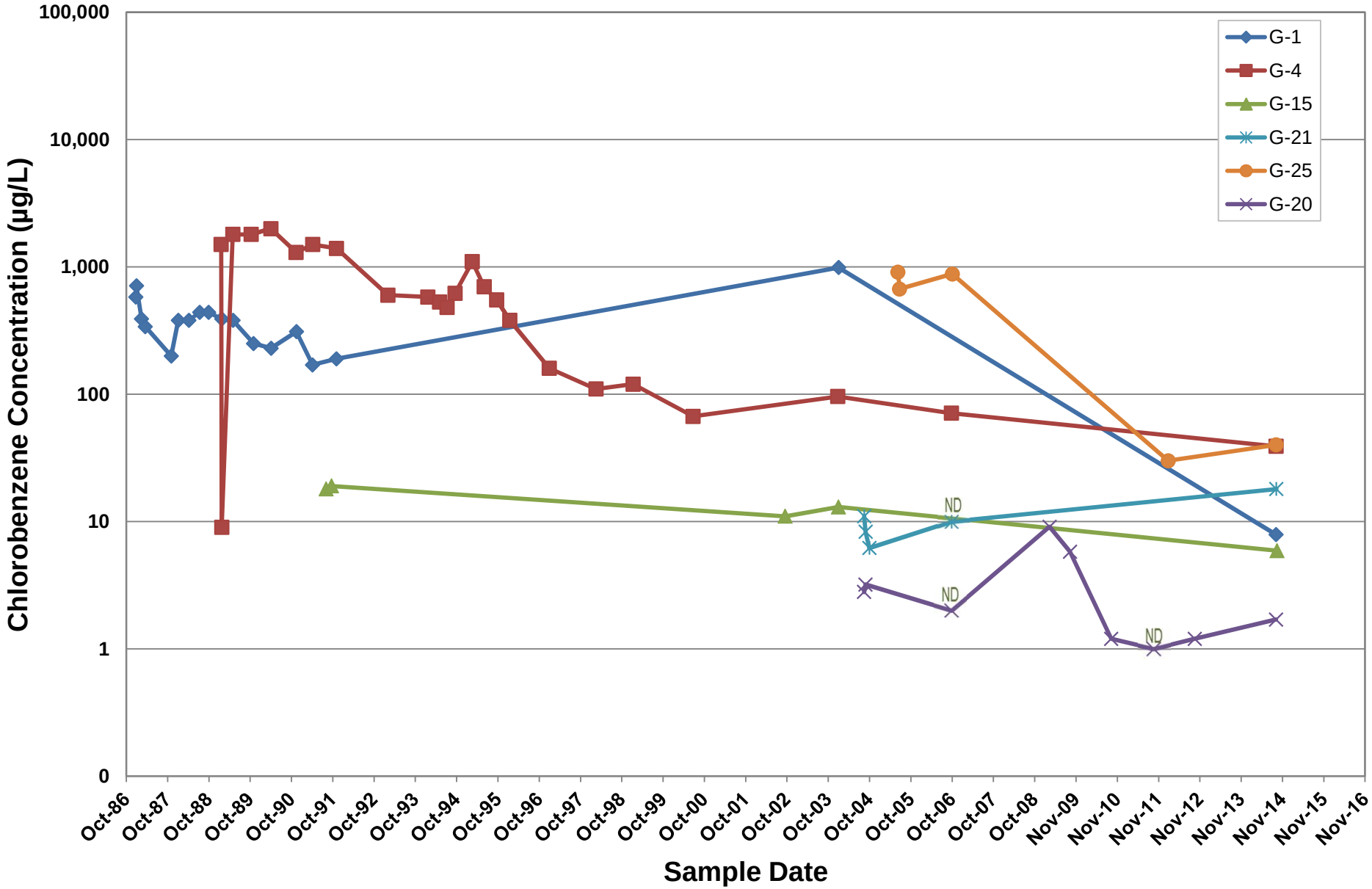
ND = Non detect. Concentrations noted as ND are shown as the laboratory reporting limit.

Figure D-6
MCB Concentration vs Time West of the Montrose Property in the MBFC
Montrose Superfund Site



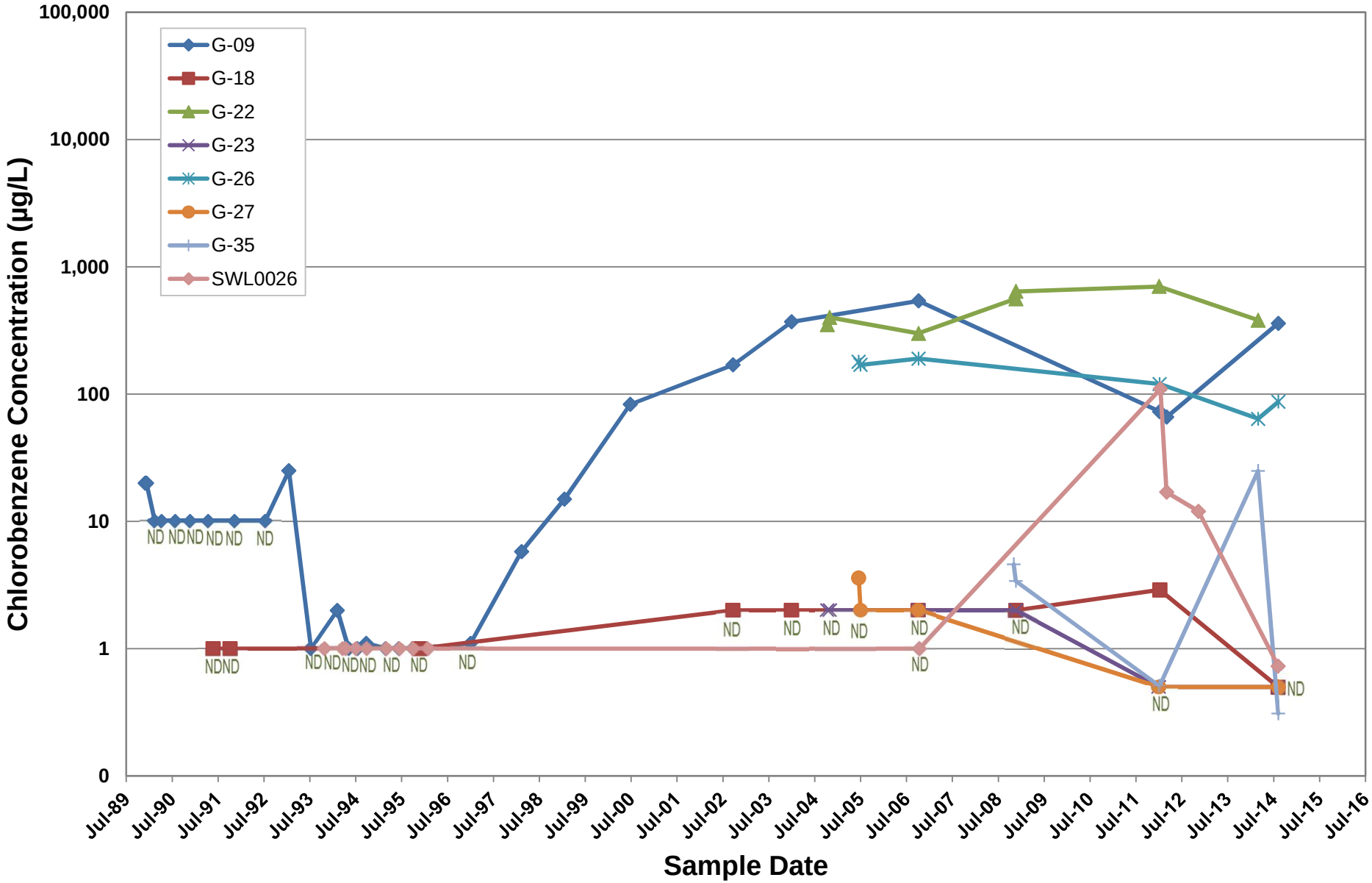
ND = Non detect. Concentrations noted as ND are shown as the laboratory reporting limit.

Figure D-7
MCB Concentration vs Time North West of the Montrose Property in the Gage Aquifer
Montrose Superfund Site



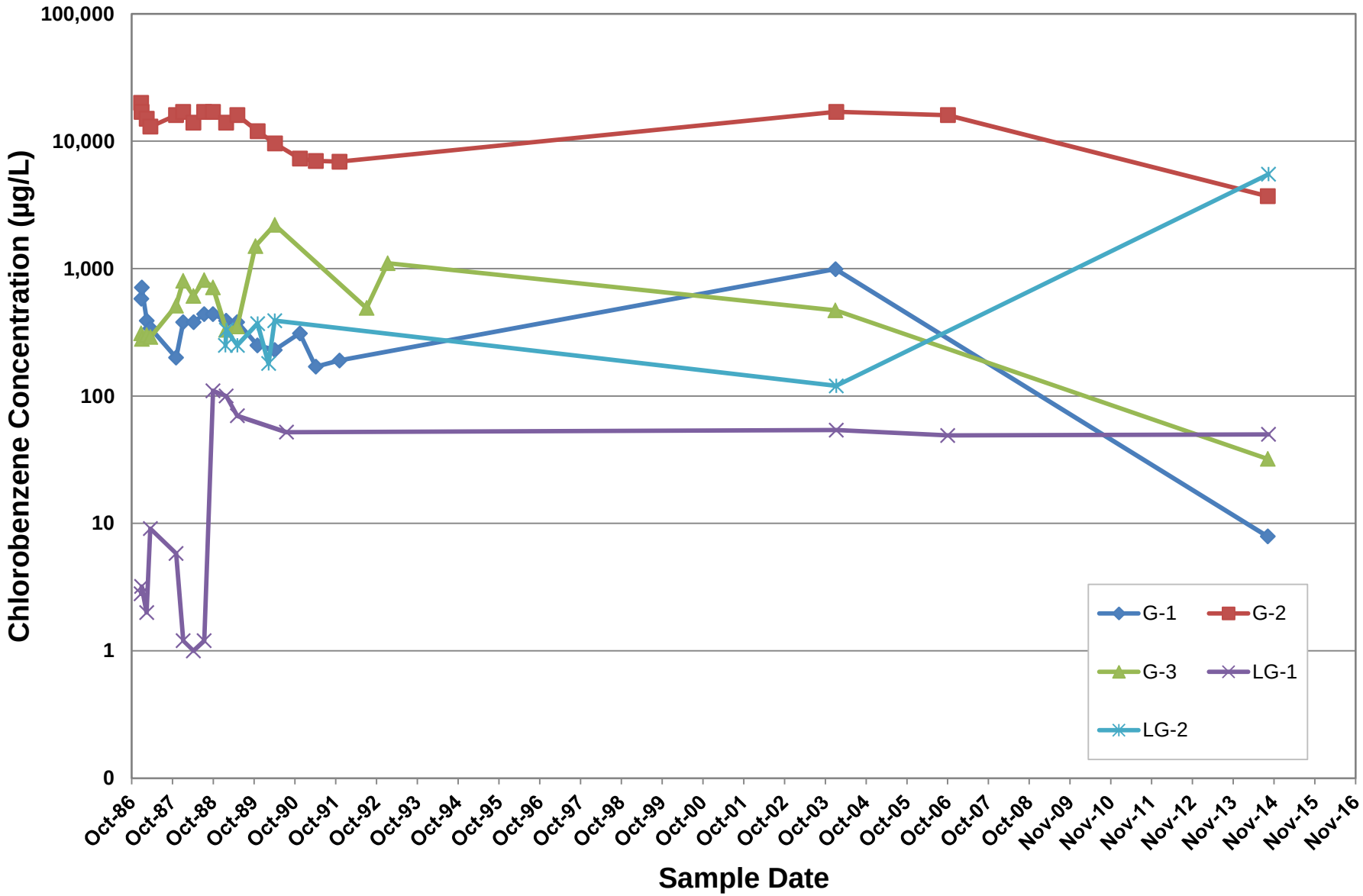
ND = Non detect. Concentrations noted as ND are shown as the laboratory reporting limit.

Figure D-8
MCB Concentration vs Time South East of the Montrose Property in the Gage Aquifer
Montrose Superfund Site



ND = Non detect. Concentrations noted as ND are shown as the laboratory reporting limit.

Figure D-9
MCB Concentration vs Time On the Montrose Property in the Gage Aquifer
Montrose Superfund Site



ND= Non detect. Concentrations noted as ND are shown as the laboratory reporting limit.