# Irrigation Water Quality Evaluation
# Cawelo Water District
# Bakersfield, California

*Prepared by:*

Enviro-Tox Services, Inc.
20 Corporate Park, Suite 220
Irvine, California 92606

April 7, 2016

**Irrigation Water Quality Evaluation**
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This report has been prepared for the exclusive use of the Cawelo Water District as it pertains to the evaluation of its irrigation water quality. Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by other scientists and engineers practicing in this field. No other warranty, expressed or implied, is made as to the professional advice presented in this report.

This report has been prepared by Dr. Heriberto Robles of Enviro-Tox Services, Inc. Dr. Robles is a Diplomate of the American Board of Toxicology (DABT) with 35 years of experience in environmental toxicology and human health and environmental risk assessment for industrial, real estate, and governmental clients. Dr. Robles has conducted, managed, and/or collaborated on numerous risk assessment projects at many sites including mining and military facilities, proposed public school sites, hazardous waste landfills, oil fields as well as commercial and industrial facilities. For example, Dr. Robles has evaluated the health hazards associated with the presence of PCBs, radionuclides, perchlorate, dioxins/furans, petroleum hydrocarbons, volatile and semivolatile organics, polycyclic aromatics, chlorinated solvents, pesticides, asbestos and metals in environmental media. Dr. Robles has also conducted health risk assessments for human exposure to bio-aerosols, radon gas and electromagnetic fields. Dr. Robles has conducted toxicological evaluations of environmental and industrial chemicals and has communicated risk information to regulatory agencies and the general public.

Heriberto Robles, M.S., Ph.D., D.A.B.T.
Board Certified Toxicologist
Enviro-Tox Services, Inc.

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# Executive Summary

At the request of the Cawelo Water District (the District), Enviro-Tox Services, Inc. (Enviro-Tox) conducted an independent evaluation of the water impoundment analytical data reported by Amec Foster Wheeler Environmental & Infrastructure, Inc (Amec). This report has been prepared by Enviro-Tox's Dr. Heriberto Robles. Dr. Robles resume is attached as Appendix A. The purpose of the Enviro-Tox review was to evaluate whether chemical components found in the District's irrigation water fall within acceptable health and safety levels for its intended agricultural use.

Results of this study indicate that irrigation water provided by the District:

- Contained traces of organic chemicals at concentrations at or below drinking water quality standards
- Does not pose a health threat to fruit trees
- Does not pose a health threat to consumers of agricultural products
- Is safe for irrigation of fruit trees

Enviro-Tox understands that the District provides irrigation water for agricultural uses to approximately 34,000 acres of orchards and vineyards north of the Bakersfield area. The District's irrigation water is a combination of groundwater (i.e., naturally occurring water drawn from deep wells), imported surface water (California State Water Project, Federal Water Project and local Kern River) and "produced water" (i.e., water that results from oil extraction activities and is subsequently treated and filtered for agricultural use).

The introduction of produced water into irrigation water systems has caused concern about the possible presence of petroleum-derived chemical residues in the produced water. However, water quality analytical results discussed in this report demonstrate that those concerns are unfounded, since analytical results show that the irrigation water does not contain concentrations of chemicals known to cause harm to humans or the environment. The only petroleum-derived chemicals detected in the irrigation water were long-chain hydrocarbons.

The potential presence of petroleum hydrocarbon residue in the produced water has been monitored since 2002. On a monthly basis, produced water is analyzed using U.S. Environmental Protection Agency (U.S. EPA) Method 1664 (Oil and Grease). This method is used by the U.S. EPA and the California State Water Resources Control Board (CSWRCB) in their water quality survey and monitoring programs.

Limitations on the amount of "oil and grease" that can enter the Cawelo Ponds is set by the CSWQCB. The California Regional Water Quality Control Board, Central Valley Region, Order R5-2012-0058 contains an oil and grease limit for Chevron discharges to Cawelo's Reservoir B of 35 milligrams per liter (mg/L). Analysis of the historical oil and grease data that has been collected and reported to the Water Board revealed that the maximum recorded concentration of oil and grease in the water was 29 mg/L. Based on these results, it is clear that uncontrolled discharges of petroleum hydrocarbons into the Cawelo Ponds are not likely and that quality control measures instituted by Chevron and Cawelo are effective at controlling and limiting the release of petroleum residue into the Cawelo irrigation water.

In addition to petroleum hydrocarbons, an inconsequential amount of acetone was also detected in the irrigation water, but its presence in the water is attributable to biological sources and is not related to petroleum residue.

Acetone is a naturally occurring compound produced by humans, animals, plants and algae. Therefore, it is not unexpected or unusual to find acetone in irrigation canals, rivers, ponds and lakes. In addition, acetone is almost universally found in biological tissues and fluids. Acetone is so ubiquitous in the environment that it would, in fact, be surprising not to find it in the analyzed water samples. Since acetone is known to be present in rain, rivers, canals, ponds and lakes, it can be concluded that acetone detected by Amec and evaluated in this study is of natural origin and not related to the produced water.

Regarding long-chain hydrocarbons, toxicity studies have demonstrated that petroleum hydrocarbons are essentially not toxic to plants. The same plant toxicity studies have demonstrated that even high levels of long-chain hydrocarbons in irrigation water or soil do not pose a threat to plants or to the human food chain.

Not only are long-chain petroleum hydrocarbons non-toxic to plants, they actually have beneficial uses in agriculture. Petroleum-derived oils are intentionally applied to fruit trees as horticultural oils. Horticultural oils may contain up to 92% hydrocarbons. The hydrocarbon concentration detected at the District's water reservoir outflow is 11.5-million times lower than the hydrocarbon concentration of horticultural oils.

Given the known low toxicity potential of long-chain hydrocarbons as well as their susceptibility to microbial breakdown, the presence of extremely low hydrocarbon concentration levels in District irrigation water does not pose a threat to fruit trees, food safety or human health.

Although published toxicity and plant uptake reports indicate little reason for concern regarding the use of irrigation water, the District decided to conduct its own preliminary plant hydrocarbon uptake study. The objective of the preliminary study was to see if edible fruits grown in fields irrigated with District water have the same or different chemical composition as edible fruits grown in "control fields" irrigated by other water sources. For the preliminary study, samples of almond, grape and pistachio fruits were collected and analyzed. Samples were collected from fields irrigated with District water and from control fields. No petroleum-related differences were observed between the chemical composition of fruits grown in fields irrigated with District water and those irrigated by different water sources. Based on the results of this preliminary study, it is apparent that the source of irrigation water has no effect on the chemical composition of fruits grown within the study area.

In conclusion, water quality analytical data shows that irrigation water provided by the District may contain traces of petroleum-derived compounds such as long-chain hydrocarbons. However, detected petroleum hydrocarbons were found at concentrations that are well within drinking water standards and do not pose a threat to irrigated plants, food safety or to human health. These conclusions are based on the fact that long-chain hydrocarbons (1) have low toxicity potential; (2) are easily broken down and degraded by soil microorganisms; (3) are essentially not absorbed by plants into their stems, fruits or leaves; and (4) in the Amec study, were detected in the water at concentrations that are well below regulatory limits set by the U.S. Environmental Protection Agency and the State Water Resources Control Board. Based on the

review of Amec's water quality data, it is the opinion of Enviro-Tox that the water supplied to farmers by the District is safe to be used for the irrigation of food crops.

It should be noted that water quality analytical data that included the identification and quantification of individual petroleum-derived compounds is available for only one sampling event. This analytical data can be considered to be of high quality but limited in quantity. It is thus recommended that water quality at the Cawelo Ponds be routinely analyzed for individual volatile organic compounds using U.S. EPA Method 8260B and for polycyclic aromatic hydrocarbons using U.S. EPA Method 8270C-SIM. Potential health risks and hazards, if any, posed by detected compounds should be re-evaluated once a stronger water quality analytical database is available.

# 1.0 Introduction

Enviro-Tox Services, Inc. (Enviro-Tox) has prepared this Irrigation Water Quality Evaluation Report (the Report) for the Cawelo Water District (the District) of Bakersfield, California. This Report describes the independent evaluation of the water impoundment analytical data reported by Amec Foster Wheeler Environmental & Infrastructure, Inc (Amec) in response to the request of the Central Valley Regional Water Quality Control Board. Enviro-Tox is a qualified environmental firm that specializes in Environmental Toxicology and Human Health and Ecological Risk Assessment. The purpose of the Enviro-Tox review was to evaluate whether chemical components found in the water fall within acceptable health and safety levels for its intended agricultural use.

The District, located just north of Bakersfield, California, provides irrigation water to approximately 34,000 acres of orchards, vineyards, and other crops. The District receives approximately 32,000 acre-feet (10.4 billion gallons) of water a year from regional oil producers. Every barrel of oil produced at the Kern River Oil Field generates approximately 15 barrels (630 gallons) of water. The water that results from the extraction of oil from local oil wells is called produced water. Produced water is treated by oil extraction companies, filtered and then delivered by pipeline to the District, where it is blended with other water supplies and provided for agriculture uses.

32,000 acre-feet of produced water equals:

- 10.4 billion gallons per year
- 28.57 million gallons per day
- 840 gallons per irrigated acre per day

The District is permitted by the Central Valley Regional Water Quality Control Board (Regional Board) to provide produced water for agricultural uses. Existing permits require the District to sample, test and report water quality data to the Regional Board on a monthly basis. The District has consistently satisfied the water quality goals stipulated in its existing permit requirements.

# 2.0 Data Evaluation

Water analytical data presented in Amec's report (dated June 15, 2015) is summarized in Table 1. A copy Amec's report and its associated documents is included as Appendix B of this report. Water analytical data was first evaluated and organized according to U.S. Environmental Protection Agency (U.S. EPA; 2015a) guidance. The data quality evaluation included the following seven steps:

1. Available data was collected and sorted by analytical method;
2. A determination was made as to whether the appropriate methods were used;
3. Sample quantitation limits were reviewed;
4. Laboratory qualifiers attached to data were reviewed;
5. Site analytical data was compared with background data as appropriate;
6. A data set was assembled on the basis of the foregoing steps; and
7. All organic chemicals detected in irrigation water were included in the assessment.

## 2.1 Combining Data from Site Investigations

Water quality data developed for or by the District was gathered and organized by analytical method. This data was combined into one data set if similar analytical methods were used, similar Quality Assurance/Quality Control (QA/QC) procedures were followed, and if similar concentration ranges were reported. If concentration ranges differed significantly between sampling periods, available data was organized into more than one data set and the more recent or more reliable data was used in the assessment.

## 2.2 Evaluation of Analytical Methods

The purpose of evaluating the methods used to analyze site investigation samples was to ensure that the data set met generally accepted standards for the preparation of environmental data. Such data would have been developed using U.S. EPA or State of California methods and QA/QC procedures that are verifiable and well documented. Such data would also have been

generated by a laboratory accredited by the State of California at the time the analyses were performed. Only analytical results for specific compounds were used.

## 2.3 Evaluation of Sample Quantitation Limits

Sample quantitation limits (SQLs) were reviewed to ensure that these values:

- Did not exceed concentrations of concern, including promulgated standards (e.g., Maximum Contaminant Levels [MCLs] or Water Quality Objectives); and
- Are not unusually high, for example, significantly greater than the maximum detected concentrations.

To ensure that SQLs did not exceed concentrations of concern, SQLs for chemicals reported as "not detected" (ND) were compared to concentrations of concern. If the SQL for a given chemical exceeded a concentration of concern, then that sample was discussed qualitatively but the data was not used to assess potential risks.

If the SQL for a given sample was unusually high and much greater than the maximum detected concentration in other samples, then that sample was discussed qualitatively but the data was not used to quantify risk.

If the SQL for a given chemical was less than a concentration of concern and that chemical was reported as not detected in a given sample, then that chemical was either discussed qualitatively or evaluated based on a concentration that is one-half of the SQL.

## 2.4 Evaluation of Qualified Data

Various qualifiers or codes might be attached to a given analytical result either by the laboratory performing the analysis or by individuals performing the data validation. The qualifiers indicate that there is some level of uncertainty regarding the true concentration or the identity of a chemical in a given sample. All flagged data was used in the evaluation.

## 2.5 Evaluation of Background Data

Background chemicals are defined as chemicals that are present on a given site because they are naturally occurring (e.g., metals, including arsenic and lead) or have been released on the site

due to anthropogenic activities unrelated to site operations (e.g., pesticides that have been applied in the general area of the subject site).

The sources of irrigation water include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Therefore, it is not unusual to find metals, salts, radionuclides, and similar chemicals in irrigation water. Metals, salts and radionuclides detected in irrigation water are considered to be naturally occurring.

**Table 1. Analytical Results Summary, Volatile Organic Compounds, Semivolatile Organic Compounds, and Total Petroleum Hydrocarbons**

| Well/Sample ID | Sample ID | Volatile Organic Compounds[1] (ug/L) | | | | | | | Polycyclic Aromatic Hydrocarbons[2] (ug/L) | | | | | | | TPH[3] (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Acetone | Benzene | Ethyl-benzene | m,p-Xylene | o-Xylene | Toluene | Total Xylenes | Acenaphthene | Acenaphthylene | Chrysene | Fluorene | Naphthalene | Phenanthrene | Pyrene | |
| Plant 36 | W039 | 31 | 0.47 J | 0.71 | 2.6 | 1.3 | 0.67 | 3.9 | 0.63 | <0.098 | <0.098 | 0.37 | 0.11 J | 0.38 | <0.098 | 0.12 |
| Polish Pond | W042 | 86 | 0.33 J | 0.39 J | 1.3 | 0.74 | 0.49 J | 2.0 | 0.53 | <0.097 | <0.097 | 0.29 | 0.11 J | 0.27 | <0.097 | 0.19 |
| Polish Pond | W043[4] | 100 | 0.31 J | 0.38 J | 1.2 | 0.59 | 0.47 J | 1.8 | 0.57 | <0.097 | <0.097 | 0.35 | 0.12 J | 0.28 | <0.097 | 0.097 |
| Reservoir B | W044 | 150 | <0.25 | 0.25 J | 0.75 J | 0.43 J | 0.39 J | 1.2 | 0.49 | <0.097 | <0.097 | 0.50 | <0.097 | 0.29 | <0.097 | 0.15 |
| Reservoir B Outflow | W045 | 50 | <0.25 | <0.25 | <0.50 | <0.25 | <0.25 | <0.50 | <0.096 | <0.096 | <0.096 | <0.096 | <0.096 | <0.096 | <0.096 | 0.080 |

**Notes:**

1. Volatile organic compounds analyzed using U.S. EPA Method 8260B.
2. Polycyclic aromatic hydrocarbons analyzed using U.S. EPA Method 8270C SIM.
3. Total Petroleum Hydrocarobns (TPH; carbon range C29-C40) analyzed using U.S. EPA Method 8015B.
4. Duplicate sample of W042.

**Abbreviations:**

< = less than the Reporting Limit.
J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
TPH = total petroleum hydrocarbons
ug/L = micrograms per liter

# 3.0 Produced Water and Regulatory Standards

The Cawelo Water District provides irrigation water to approximately 34,000 acres of orchards, vineyards, and other crops. The District's water sources include produced water, groundwater and surface water from the State Water Project, Federal Water Project and local Kern River. Due to the diminishing water supply from the State Water Project and current drought conditions, approximately half of the District's current irrigation supply is made up of produced water.

The District blends groundwater and imported surface water with the produced water in the Cawelo Ponds (Figure 1). The ponds are situated outside the boundary of the Kern River and Kern Front Oil Fields. The Cawelo Ponds are not disposal impoundments as the produced water is treated and filtered (by oil producers), and then delivered by pipeline to the Cawelo Ponds.

The Cawelo Ponds consist of an upper, smaller pond called the Polishing Pond and a lower, larger pond called Reservoir B. The only source of water to the Polishing Pond is from Chevron's Station 36 water plant. Chevron delivers produced water from its Station 36 water plant by underground pipeline into the Polishing Pond. The Polishing Pond is lined and water in the Polishing Pond flows into Reservoir B. In addition to Chevron, Valley Water Management Company also contributes produced water to the Cawelo Water District, and its produced water is also delivered by a pipeline into Reservoir B. Within Cawelo's Reservoir B, imported surface water and groundwater is combined with the produced waters and this blended water is released into the District's distribution canal. From the distribution canal, pipelines allow the blended irrigation water to gravity flow into pipeline turnouts where farmers take delivery of the irrigation water and distribute it through their individual irrigation systems.

Produced water is sampled and analyzed on a regular basis. Water samples are collected at the points of discharge from the pipeline receiving produced water from Chevron and Valley Water Management Company and from the Reservoir B outflow. In addition, samples are taken at two locations along the distribution canal to identify additional blending quality from groundwater wells located along the distribution canal.

The District is permitted by the Regional Board to provide produced water for agricultural uses. The existing permit requires the District to sample, test and report water quality data to the

Regional Board on a monthly basis. Water quality analysis required by the Regional Board includes nearly 70 different analytes including petroleum hydrocarbons, heavy metals, and radioisotopes. Water quality analytical results, gathered by an independent laboratory, are reported directly to the Regional Board for its review and approval. There has been no water quality violations issued to the District under the existing permit.

As the District has consistently satisfied the water quality stipulations under the exiting permit, the Regional Board has in essence issued a "clean bill of health" to the District and has allowed the continued use of produced water for agricultural uses.

Produced water is monitored by the Central Valley Regional Water Quality Control Board:

- Monthly sampling, testing and reporting
- Over 70 chemicals tested
- Water meets water quality standards
- No water quality violations issued

## 3.1 Oil and Grease Monitoring

The potential presence of petroleum hydrocarbon residue in the produced water has been monitored since 2002. On a monthly basis, produced water is analyzed using U.S. EPA Method 1664 (Oil and Grease). This method is used by the U.S. EPA and the California State Water Resources Control Board (CSWRCB) in their water quality survey and monitoring programs. Method 1664 is used to detected nonpolar compounds dissolved in water. Method 1664 is not specific to petroleum hydrocarbons as it can also detect any compound dissolved in water that is soluble in hexane. For this reason, any chemical compound that is soluble in hexane will be counted as "Oil and Grease." These include oils, grease and waxes of animal and plant origin as well as soaps and nonpolar inorganic materials such as sulfur.

While Method 1664 is not a perfect method for monitoring the presence of petroleum hydrocarbon residue in water, it provides a good approximation of the total amount of dissolved hydrocarbons in the water. Furthermore, produced water, as it enters the Cawelo Ponds, should not contain oils, grease and waxes of plant or animal origin so it is safe to assume that most of the "Oil and Grease" detected in the Cawelo Ponds' water is made up of petroleum-derived compounds.

Limitations on the amount of "oil and grease" that can enter the Cawelo Ponds is set by the CSWRCB. The California Regional Water Quality Control Board, Central Valley Region, Order R5-2012-0058 contains an oil and grease limit for Chevron discharges to Cawelo's Reservoir B of 35 milligrams per liter (mg/L). This limitation is based on the 40 Code of Federal Regulations part 435.50, Oil and Grease Extraction Point Source Category, Agricultural and Wildlife Water Use Subcategory.

Historical oil and grease data for Reservoir B is available at the State Water Board's web site at: http://www.waterboards.ca.gov/centralvalley/water_issues/oil_fields/food_safety/index.shtml. Review of the historical data reveals that the discharge limitation of 35 mg/L has never been exceeded by Chevron.

In an effort to assess compliance with the oil and grease discharge limitations, a statistical analysis of the oil and grease data was conducted. The objective of the statistical analysis was to define oil and grease concentration variations and trends over the years that would indicate potential threats of potential uncontrolled discharges of petroleum hydrocarbons into the Cawelo Ponds.

The first objective of the statistical analysis was to determine the presence of potential outliers in the oil and grease data. For this type of analysis, the DTSC (2009) recommends to "construct a table showing the frequency of detection, range of detected values, range of sample quantitation limits, arithmetic means, standard deviations, and coefficients of variation" (DTSC 1997, Section 7.3, page 4). The table recommended by the DTSC has been constructed for this analysis and is presented below.

| **Statistical Parameter** | **Oil and Grease** |
|---|---|
| Number of Samples | 164 |
| Number of Non Detected | 1 |
| Detection Frequency | 99.39 |
| Minimum detected value | 1.50 mg/L |
| Maximum detected value | 29 mg/L |
| Mean concentration | 10.44 mg/L |

| | |
|---|---|
| First quartile (Q1) | 5.70 mg/L |
| Median | 10.20 mg/L |
| Third quartile (Q3) | 13.65 mg/L |
| Standard deviation | 5.50 |

The next step in the analysis was to determine whether there are any data that are outside the norm (possible outliers). The potential presence of outliers in the data was evaluated using a "Fourth Spread" analysis as recommended by DTSC (2009). The Fourth Spread (Fs) of the water oil and grease data was obtained using the following formula:

$$Fs = (Q3 - Q1)$$

Where:

| | | |
|---|---|---|
| Fs | = | Fourth spread (mg/kg) |
| Q3 | = | Third quartile (mg/kg) |
| Q1 | = | First quartile (mg/kg) |

The estimated Fs for the oil and grease data is 7.95 mg/L.

Outliers for the upper bound of the oil and grease concentrations are defined as:

*All data points greater than Q3 + [1.5 x Fs]*

or

13.65 mg/L + [1.5 x 7.95 mg/L] = 25.58 mg/L

According to these calculations, any oil and grease concentration higher than 25.58 mg/L are considered to be outliers. Only four out of the 164 measurements can be considered to be outliers since these four measurements had concentrations higher than 25.58 mg/L. The oil and grease concentration in the four outliers range from 26.1 mg/L to 29 mg/L. These four outlier concentrations are all lower than the maximum allowable oil and grease concentration of 35 mg/L. These results indicate that even when conditions at Chevron's water separation plants are such that favor the release of high levels of petroleum hydrocarbons, those abnormally high (outlier) concentrations do not exceed the discharge limits set by the CSWRCB.

In an effort to further assess compliance with the oil and grease limitations, outliers were also identified by constructing a cumulative probability plot. The plot was constructed by plotting the cumulative probability vs. reported oil and grease concentrations. According to the DTSC (2009) guidance, inflections or breaks in the cumulative plot line generally indicate the potential presence of uncontrolled contamination. The oil and grease probability plot is presented in Figure 2. As presented on the graph, the data appears to be normally distributed in the range of 1.5 to 19.4 mg/L. At about 20 mg/L a distinctive change in slope (the inflection point) can be seen. The inflection point where the slope changes is indicative of data outliers. Therefore, the inflection point of 19.4 mg/L represents the upper-bound, typical concentration. This upper-bound, typical concentration is about two-thirds of the maximum allowable discharge limit of 35 mg/L. Based on these results, it is clear that uncontrolled discharges of petroleum hydrocarbons into the Cawelo Ponds are not likely and that quality control measures instituted by Chevron and Cawelo are effective at controlling and limiting the release of petroleum residue into the Cawelo irrigation water.

## 3.2 Regulatory Standards

The U.S. EPA and the California Environmental Protection Agency (Cal/EPA) set drinking water standards that define the maximum amount of contaminants considered safe for drinking water. These limits are based on studies of the health effects associated with chemical contaminants and include a sufficient margin of safety to ensure that drinking water is safe for nearly everyone and every possible water use, including: food processing, cooking and showering.

Health-based drinking water standards are derived using risk assessment approaches that combine toxic potency estimates, acceptable target risks and hazards, and default exposure values. Default exposure values are intended to be conservative to avoid the underestimation of the risks posed by the contaminants. For example, when developing drinking water standards, regulatory agencies assume that adults and children are exposed to water through skin contact and inhalation (typical of a shower exposure) and from drinking up to two liters of water every day for a significant portion of a lifetime. The water quality standards used in this evaluation included:

1. The U.S. EPA Regional Screening Levels for tap water (U.S. EPA 2015b); and,

2. The Cal/EPA Environmental Screening Levels published by the San Francisco Bay Regional Water Quality Control Board (Cal/EPA 2015).

Drinking water standards were used in this evaluation as there are no water quality standards for irrigation water. Drinking water standards were used because they ensure that the highest and strictest (safest) water quality standards were applied in the evaluation.

# 4.0 Produced Water Quality

The Regional Board issued a directive (dated April 1, 2015) to Chevron U.S.A. Inc. (Chevron) requiring sampling and analysis of produced water delivered to the District. The results of Chevron's water sampling were reported to the Regional Board in the June 15, 2015 Amec report referenced above. A copy of the June 15, 2015 report and its associated documents is included as Appendix B of this report.

According to Amec's report, water samples were collected at one location within the Kern River Oil Field (Station 36 water plant) and four locations within the Cawelo Ponds. Sampling locations are shown in Figure 1. Analytical results for volatile and semi volatile organic compounds are presented in Table 1. For purposes of this evaluation report, only chemicals associated with oil extraction and production are presented and discussed here; chemical substances and elements detected at the Cawelo Ponds and deemed to be of natural origin, such as metals, salts and radionuclides, are not discussed in this report.

## 4.1 Petroleum Hydrocarbons

Total petroleum hydrocarbons (TPH) were detected in the water sample collected at the Reservoir B outflow at a concentration of 80 micrograms per liter of water (µg/L; Table 1). This concentration is equivalent to 80 parts per billion (ppb) or approximately ¾ teaspoon of oil mixed in 10,000 gallons of water. For size comparison, 18-wheeler tanker trucks have storage capacities of about 10,000 gallons.

TPH in irrigation water:

- Detected concentration of 80 parts per billion
- Equivalent to ¾ teaspoon of oil in 10,000 gallons of water
- 750 times below maximum concentration considered safe for drinking water
- 7.5 million times lower than concentrations horticulture spray oils

TPH are a mixture of hundreds of organic chemicals that are found in crude oil, natural gas, coal, coal tar, petroleum products, and other similar materials. Petroleum hydrocarbons in the environment (soil, water, and air) vary widely from one site to another because they are subject to modifications by chemical, physical, and biological processes naturally occurring in the environment.

Toxicity studies (Van Epps 2006) have demonstrated that long-chain hydrocarbons are essentially nontoxic to plants. In one study, plant growth was affected only when the TPH concentration in soil exceed levels of about 0.3% (Chaineau and Oudot 1997). The TPH concentration detected at Reservoir B outflow is about 37,500 times lower than the concentration known to be potentially toxic to plants. The same plant toxicity studies have demonstrated that long-chain petroleum hydrocarbons are essentially not absorbed by plants (Chaineau and Oudot 1997). In those studies, plants growing in soils containing high levels of TPH did not show accumulation of petroleum-derived hydrocarbons in stems, leaves and fruits. The results of those plant studies indicate that even high levels of long-chain hydrocarbons in irrigation water or soil do not pose a threat to plants or to the human food chain (Hoylman and Walton 1994).

TPH toxicity is so low that TPH are now purposefully applied directly to fruit trees (Walsh, et.al., 2015). Since the advent of organic farming, petroleum oils have played an important role in orchard pest and disease control programs (Washington State University, 2015). TPH in horticultural oils kill insects and mites through suffocation by smothering (Walsh et al. 2015). Horticultural oils may contain up to 92% TPH (Washington State University 2015). The TPH concentration detected at the Reservoir B outflow is 11.5-million times lower than the TPH concentration of horticultural oils.

TPH does not bioaccumulate in soil or in plant tissue. Numerous studies have demonstrated that petroleum hydrocarbons are easily broken down and degraded by bacteria and other microorganisms that live in the plant root zone. There is a symbiotic relationship between plants and microorganisms that live in the plant's root zone. Plants promote microbial growth in their root zones by providing sugars, amino acids, enzymes, and other compounds that are known to stimulate bacterial growth. The roots also provide additional surface area for microbes to grow on and a pathway for oxygen transfer from the environment. Microorganisms in turn facilitate the breakdown of organic compounds and liberate nutrients that are essential to plants. This symbiotic relationship has been found useful for the treatment of soils contaminated with numerous environmental contaminants, including petroleum hydrocarbons, polycyclic aromatic hydrocarbons, chlorinated solvents, pesticides, polychlorinated biphenyls, and aromatic hydrocarbons (Van Epps 2006).

Given the known low toxicity potential of TPH as well as their susceptibility to microbial breakdown, the presence of extremely low concentrations of TPH in District irrigation water would not pose a threat to fruit trees. Drinking water regulatory limits for TPH are relatively high. For example, the U.S. EPA has established that a TPH concentration of 60,000 micrograms per liter (µg/L) in tap water poses no significant health risk to the general population (U.S. EPA 2015). The U.S. EPA's acceptable TPH water concentration is 750 times higher than the TPH concentration detected at the Reservoir B outflow. The Cal/EPA screening level for long-chain TPH in water is 100 µg/L (Cal/EPA 2015). The maximum detected TPH concentration at the Reservoir B outflow (80 µg/L) is below its corresponding Cal/EPA screening level for drinking water. Based on the sampling results, it is concluded that TPH detected in the Reservoir B outflow does not pose a health threat to fruit trees or to consumers of agricultural products grown on acreage irrigated with water provided by the District.

As stated above, TPH is a mixture of hundreds of organic chemicals. Some of the organic chemicals that make up TPH were detected individually in the water samples collected at the Cawelo Ponds (Table 1). These individual chemicals included a few volatile and semivolatile organic compounds. The volatile organic compounds detected included benzene, toluene, ethylbenzene and xylenes (BTEX). The semivolatile organic compounds detected included four members of the Polycyclic Aromatic Hydrocarbon (PAH) family. The significance of these detections are presented below.

### *Volatile Organic Compounds*

In general, BTEX can found in volcano emissions, petroleum-based solvents and thinners and in motor vehicle exhaust. BTEX are also constituents of crude oil and fossil fuels, and are produced during forest fires.

If released to air, BTEX compounds exist in the vapor phase at ambient temperatures. Vapor-phase BTEX are degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction is estimated to range from 16 hours to about 13 days (HSDB 2016).

When BTEX compounds are released into water, these compounds may adsorb to sediment and suspended solids. From surface water, BTEX compounds are likely to volatilize relatively rapidly at ambient temperatures. It is estimated about half the mass of BTEX dissolved in

surface water would volatilize to ambient air in no more than four days (HSDB 2016). BTEX compounds are known to be broken down and consumed by microbes native to soil and water environments (HSDB 2016). Microbial degradation of BTEX compounds in water is expected to occur relatively rapidly. According to published reports, the half-life of BTEX compounds in water range from 4 to 56 days (HSDB 2016).

### *Semivolatile Organic Compounds*

Only four PAHs were detected at the Cawelo Ponds. These were acenaphthene, fluorene, naphthalene and phenanthrene (Table 1). It is not unusual to find PAHs in the environment. This family of organic chemicals are produced and released to the environment from wood burning, forest fires, cooking foods, and combustion of fossil fuels. PAHs are also found in creosote, coal tar and more importantly, PAHs are released to the environment from the combustion of fossil fuels, volcanic activity and forest fires.

In general terms, PAHs are not as volatile as BTEX. Therefore, when released to the air, PAHs may exist in both vapor and particulate phases. In general, the four PAHs detected at the Cawelo Ponds are volatile enough to exist in the air predominately in the vapor phase. As in the case with BTEX compounds, PAHs are also degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals (HSDB 2016).

Also, similarly to BTEX, PAHs are subject to microbial breakdown. Breakdown in soil generally takes weeks to months (HSDB 2016). If released into water, PAHs are expected to adsorb to suspended solids and sediment. This absorption may retard the rate of microbial degradation. However, the four PAHs detected at the Cawelo Ponds are known to be relatively easily degraded by soil and water microorganisms (HSDB 2016).

Based on the known behavior of BTEX and PAH compounds, it is expected that the traces of these compounds released into the Cawelo Ponds would be rapidly removed from the irrigation water by either volatilization, sedimentation and/or microbial degradation. Evidence for this rapid removal is seen in Table 1. While both BTEX and PAH compounds were detected in low concentrations at Plant 36, the Polishing Pond and the Reservoir B water samples, the concentrations of those compounds fell to levels below detectable concentrations at the Reservoir B outflow (Table 1). BTEX and PAH concentrations in irrigation water are expected to be further reduced over time and distance from the Cawelo Ponds. For these reasons, it can be

concluded that BTEX and PAH compounds detected at the Cawelo Ponds do not pose a health threat to fruit trees or to consumers of agricultural products grown on acreage irrigated with water provided by the District.

## 4.2 Acetone

Acetone was detected in Reservoir B outflow water sample at a concentration of 50 µg/L or 50 ppb. Since acetone was detected in all five water samples collected from the Cawelo Ponds, it is possible the acetone detected could have originated from the oil production wells. However, it should be noted that acetone is a naturally occurring compound produced by humans, animals, plants and algae (Elis, et al., 2012). Acetone is a colorless volatile liquid with a fruity odor and sweetish taste. It is soluble in water and has been detected in smoke from volcanoes, forest fires, and burning of tobacco, wood, fuels, and other materials (Hazardous Substances Data Bank [HSDB] 2016).

Acetone in irrigation water:

- Detected concentration of 50 parts per billion
- Equivalent to ½ teaspoon of acetone in 10,000 gallons of water
- 280 times below maximum concentration considered safe for drinking water

Finding acetone in irrigation canals, rivers, ponds, and lakes is not unusual. Acetone is so ubiquitous in the environment that it would, in fact, be surprising not to find it in the analyzed water samples. Acetone is almost universally found in biological tissues and fluids. For example, acetone is present in human blood and urine at concentrations of about 840 µg/L (Wang et al. 1994). The acetone concentration in blood and urine of normal, healthy individuals is about 17 times higher than acetone concentration detected at Reservoir B outflow. Since acetone is known to be present in rain, rivers, canals, ponds, and lakes (HSDB, 2016), it can be concluded that acetone detected in this study is of natural origin and not related to the produced water.

Owing in part to its widespread presence and biogenic production (i.e., resulting from the activity of living organisms), acetone has relatively low toxicity potential for plants and animals. Acceptable drinking water limits for this chemical are relatively high. For example, the U.S. EPA has established that an acetone concentration of 14,000 µg/L in tap water poses no

significant health risk to the general population (U.S. EPA 2015). The allowable safe drinking water concentration for acetone published by Cal/EPA is 12,000 µg/L (Cal/EPA 2015).

The U.S. EPA's allowable tap water concentration is 280 times higher than the acetone concentration detected at the Reservoir B outflow. Based on acetone's low toxicity potential, acetone detected in the Reservoir B outflow sample does not pose a health threat to fruit trees or to consumers of agricultural products grown on acreage irrigated with water provided by the District.

# 5.0 Chlorinated Organic Compounds

> Water at the Cawelo Ponds is remarkable in that:
> - Chlorinated VOCs <u>were not detected</u>
> - Potentially toxic water chlorination by-products were <u>not</u> detected
> - Contaminants usually found in surface water bodies were <u>not</u> detected

In general, the most common sources of irrigation water include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As irrigation water travels from its source to a farm, it can pick up chemical contaminants. Those chemicals might include organic chemicals such as synthetic and volatile organic chemicals that are by-products of industrial processes and petroleum production or those that come from urban runoff, agricultural applications, and septic systems. For this reason, irrigation water may reasonably be expected to contain at least small amounts of some contaminants. Contaminants present in water for public consumption are deemed to pose no significant health risks when their concentration levels in the water are within prescribed regulatory limits set by the U.S. EPA or the State Water Resources Control Board.

Water samples collected at the Cawelo Ponds <u>did not contain</u> detectable concentrations of chlorinated VOCs or toxic by-products of chlorination processes. Chlorinated VOCs such as trichloroethylene (TCE) and tetrachloroethylene (PCE) are common groundwater contaminants in California. In addition, water purification processes that rely on chlorination are known to produce potentially toxic by-products such as chloroform and other trihalomethanes. These undesirable by-products are produced by the reaction of chlorine with organic matter (Tsuchiya 2015).

Since produced water entering the Cawelo Ponds contains organic matter in the form of TPH, it is possible that organic compounds such as chloroform, methylene chloride and dichlorobenzenes could be found in produced water if that produced water had undergone chlorination during the water treatment and purification processes. However, none of the water samples collected at the Cawelo Ponds contained detectable concentrations of chlorinated VOCs.

As mentioned above, water for public consumption – including irrigation water – is considered to be safe and to pose no significant health risk if the contaminant concentrations in the water are below regulatory limits set by the U.S.EPA or Cal/EPA. It is also considered safe if those

chemicals are not detected by current laboratory analytical methods if those analytical methods are sensitive enough to detect chemicals at, or below, the regulatory limits. In the case of the water samples collected at the Cawelo Ponds, chlorinated VOCs were not detected and their analytical detection levels were all below their corresponding regulatory limits (see Table 2 below).

**Table 2. Maximum Contaminant Levels and Reported Detection Limits for Common Chlorinated VOCs Contaminants**

| Common Chlorinated VOC Groundwater Contaminants found in California | Maximum Contaminant Level (µg/L) | Analytical Detection Limit (µg/L) Of Cawelo Pond Water Samples |
|---|---|---|
| Chloroform | 80.0 | 0.5 |
| Dichlorobenzenes | 75.0 | 0.5 |
| Methylene chloride | 5.0 | 2.0 |
| Tetrachloroethylene (PCE) | 5.0 | 0.5 |
| Trichloroethylene (TCE) | 5.0 | 0.5 |

Based on these observations, chlorinated VOCs present at the Cawelo Ponds, if any, do not pose a health threat to fruit trees or to consumers of agricultural products grown on acreage irrigated with water provided by the District.

# 6.0 Fruit Sampling and Analysis

As stated in Section 4.1, long-chain petroleum hydrocarbons are easily broken down by soil microorganisms, do not bioaccumulate, and their translocation from soil-to-roots-to-plant tissues is limited. The limited plant absorption of petroleum hydrocarbons has been demonstrated in laboratory studies. For example, plants grown in pots containing heavily contaminated soils showed hydrocarbon concentrations in root pulp that were about 0.1% of the soil chemical concentrations (Fismes et al. 2002). In another study, hydrocarbon concentrations in plant stems were only 4% of the soil chemical concentrations (Watts et al. 2006).

Although published plant hydrocarbon uptake reports showed little reason for concern regarding the use of irrigation water, the District decided to conduct its own preliminary hydrocarbon uptake study. The objective of the District's preliminary study was to see if edible fruits grown in fields irrigated with water provided by the District have the same or different chemical composition as edible fruits grown in fields not irrigated with water provided by the District.

On September 24, 2015, the District collected almond samples and on October 1, 2015, Weck Laboratories, Inc. of City of Industry, California (Weck) collected grape and pistachio fruit samples from fields irrigated with water provided by the District and from control fields. The control samples were collected from Kern and Tulare County orchards and vineyards that were not irrigated with water provided by the District. In this report, fruit samples collected from fields irrigated with water provided by the District are called "Test" samples; fruit samples collected from fields not irrigated with water provided by the District are named "Control" samples. Test and Control fruit sampling locations are presented in Figure 3.

Weck analyzed all Test and Control samples using the following U. S. EPA methods:

- Anions in solids (Method 9056/300.0)
- Hydrocarbons (Method 8015B)
- Metals (non-aqueous; Method 6000/7000 series)
- Semivolatile Organics (Low level by GC/MS SIM Mode)
- Volatile Organic Compounds (Method 8260B)

Chemical analytical results obtained from the analysis of fruits obtained from trees and vines irrigated with water provided by the District and from the Control fields are summarized in Table 3. A copy of the laboratory report is included in this report as Appendix C. The only organic chemicals detected in the fruit samples were acetone, methylene chloride and hydrocarbons (with carbon chain range between 8 and 24 carbons, labeled by the analytical method as "Diesel Range Organics"). Acetone was detected in all fruits and at all sampling locations, including the Control samples (Table 3). Methylene chloride was detected in only one almond sample collected from a Test field and in one pistachio sample collected from a Control field. Hydrocarbons were not detected in the grape samples but were detected in all almond and pistachio samples, including samples collected from the Control field (Table 3).

**Table 3. Fruit Sample Analytical Results***

| Fruit | Sampling Location | Diesel-Range Organics (mg/Kg) | Acetone (µg/Kg) | Methylene Chloride (µg/Kg) |
|---|---|---|---|---|
| Almonds | Test field | 2,100 | 100 | 38 |
| Almonds | Test field | 1,300 | 120 | ND |
| Almonds | Control field | 1,500 | 99 | ND |
| Grapes | Test field | ND | 190 | ND |
| Grapes | Test field | ND | 210 | ND |
| Grapes | Control field | ND | 180 | ND |
| Grapes | Control field | ND | 260 | ND |
| Pistachios | Test field | 3,000 | 950 | ND |
| Pistachios | Test field | 1,900 | 870 | ND |
| Pistachios | Control field | 1,200 | 1,100 | 52 |

Notes:
* Only chemicals detected are listed
mg/Kg = Milligrams per kilogram
µg/Kg = Micrograms per kilogram
ND = Not detected

Weck's analytical results found "Diesel Range Organics" in almond and pistachio fruits (Table 3 and Appendix C). However, the Laboratory has stated that the hydrocarbons detected in the samples are not petroleum-derived fuels such as diesel or gasoline (Weck Laboratories 2016;

Appendix D) According to Weck Laboratories (2016) the term "Diesel Range Organics" is applied to any synthetic and/or naturally occurring organic compounds that have the same carbon-chain length and boiling point range as that of diesel fuel. Diesel Range Organics are hydrocarbons with carbon chain lengths of 10-28 carbon atoms.

Almonds and pistachios naturally contain oils that have carbon chains of approximately 18 carbons (Chahed et.al. 2008 and Safari and Alizadeh 2007). Those naturally occurring oils have essentially the same carbon chain length as the hydrocarbons identified as "Diesel Range Organics" by EPA Method 8015B. Therefore, it is not surprising to see that Weck Laboratory detected oils labeled as Diesel Range Organics in almond and pistachio fruits. The natural origin of the detected oils is evident by the fact that similar concentrations were detected in both the Test and Control samples (Table 3). Based on these results, it can be concluded that hydrocarbons detected in almond and pistachio samples are actually naturally occurring oils and their presence and concentration in the tested fruits are not related to the source of irrigation water. Grapes do not contain oil. Therefore, it is not surprising that Diesel Range Organics were not detected in any of the grape samples collected in the study (Table 3).

It is not unusual to find acetone in fruit and plant tissues. Acetone is a naturally occurring compound produced by humans, animals, plants, and algae (Elis, et al., 2012). Since acetone was detected in both Test and Control fruit samples, it can be concluded that acetone detected in this study is of natural origin and is not related to the source of irrigation water. It should be noted that the highest acetone concentration was detected in pistachio fruit samples collected at a Control field (Table 3). These results further support the conclusion that acetone is of natural origin and is not related to the source of irrigation water.

Methylene chloride is not known to be produced by plants. Therefore, its presence in one almond sample from a Test field and one pistachio sample from a Control field is likely the result of man-made contamination of the analyzed samples. Methylene chloride is a known laboratory contaminant and therefore its presence could be attributed to its possible introduction during the chemical analytical process. Since the highest methylene chloride concentration was detected in the pistachio sample collected from a Control field, it can be concluded that the presence of methylene chloride in almond and pistachio fruits is not related to the source of irrigation water.

The presence of trace concentrations of methylene chloride in edible seeds and agricultural products should not be alarming. Methylene chloride has many uses in food processing. For example, methylene chloride is the solvent most often used to remove caffeine from coffee beans (Webber 2008). For this reason, decaffeinated coffee contains methylene chloride at concentrations as high as 10 parts per million (ppm). The maximum detected methylene chloride detected in this study is equivalent to 0.052 ppm. This concentration is about 200 times lower than the maximum methylene chloride concentration permissible in decaffeinated coffee beans.

# 7.0 Conclusions

The introduction of produced water into irrigation water systems has caused concern about the possible presence of petroleum-derived chemical residues in the produced water. However, water quality analytical results discussed in this report have demonstrated that those concerns are largely unfounded, since analytical results show that the irrigation water does not contain concentrations of chemicals known to cause harm to humans or the environment. The only petroleum-derived chemicals detected in water at the Reservoir B outflow were long-chain hydrocarbons in the form of TPH. Acetone was also detected in the water, but its presence in the water is attributable to biological sources and is not related to petroleum residue.

Finding acetone in irrigation canals, rivers, ponds, and lakes is not unusual. Acetone is a naturally occurring compound produced by humans, animals, plants, and algae. Acetone is so ubiquitous in the environment that it would, in fact, be surprising not to find it in the analyzed samples. Acetone is almost universally found in biological tissues and fluids. Since acetone is known to be present in rain, rivers, canals, ponds, and lakes, it is concluded that acetone detected in this study is of natural origin and is not related to the produced water.

Irrigation water provided by the District:

- Contained traces of organic chemicals at concentrations that are at or below drinking water quality standards
- Does <u>not</u> pose a health threat to fruit trees
- Does <u>not</u> pose a health threat to consumers of agricultural products
- Is safe for irrigation of fruit trees

Regarding long-chain hydrocarbons, toxicity studies have demonstrated that petroleum hydrocarbons in low to moderate concentrations are essentially not toxic to plants. The same plant toxicity studies have demonstrated that even high levels of long-chain hydrocarbons in irrigation water or soil do not pose a threat to plants or to the human food chain.

Not only are long-chain petroleum hydrocarbons non-toxic to plants, they actually have beneficial uses in agriculture. Petroleum-derived oils are intentionally applied to fruit trees as horticultural oils. Horticultural oils may contain up to 92% TPH. The TPH concentration detected at the Reservoir B outflow is 11.5-million times lower than the TPH concentration of horticultural oils.

Given the known low toxicity potential of long-chain petroleum hydrocarbons, as well as their susceptibility to microbial breakdown, the presence of extremely low concentration levels in District irrigation water does not pose a threat to fruit trees. In conclusion, water quality analytical data shows that irrigation water provided by the District may contain traces of petroleum-derived compounds such as long-chain hydrocarbons. However, detected petroleum hydrocarbons pose no threat to irrigated plants, food safety or to human health. These conclusions are based on the fact that long-chain hydrocarbons (1) have low toxicity potential; (2) are easily broken down and degraded by soil microorganisms; (3) are essentially not absorbed by plants into their stems, fruits or leaves; and (4) in the Amec study, were detected in the water at concentrations that are well within regulatory limits set by the U.S. EPA and the State Water Resources Control Board. Based on the review of Amec's water quality data, it is the opinion of Enviro-Tox that the water supplied to farmers by the District is safe to be used for the irrigation of food crops.

## 7.1 Limitations

The conclusions presented in this report are professional opinions based solely upon the data described in this report. They are intended exclusively for the purpose outlined herein and the site location and project indicated. This report is for the sole use and benefit of the Cawelo Water District. The scope of services performed in execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said user.

Given that the scope of services for this investigation was limited, and that conditions may vary between the points explored, it is possible that currently unrecognized water contamination may be present. Should study parameters change, the information and conclusions in this report may no longer apply. Opinions relating to environmental, hydrologic and agricultural health conditions are based on limited data; actual conditions may vary from those encountered at the times and locations where data were obtained. No expressed or implied representation or warranty is included or intended in this report except that the work was performed within the limits prescribed by the client with the customary thoroughness and competence of professionals working in the same area on similar projects.

# 8.0 Uncertainty Analysis

It is important to specify the uncertainties and limitations of the study for two reasons: (1) to place the conclusions of the report in proper perspective, and (2) to identify key site-related variables and assumptions that contribute most to the uncertainties in the conclusions presented. The objective of this section is also to highlight the strengths and weaknesses of the parameters and data that are the basis of the report's conclusion and to suggest future studies for collecting the data needed to reduce the uncertainty associated with the conclusions made in the report.

The conclusions presented in this report are based on the water quality analytical data collected by Amec at the request of the Water Board. This report was written at a time when only one sampling event included the quantification of individual petroleum-derived compounds. While the quality of this analytical data is high, the quantity is low. This low quantity of individual analytical data can be deemed to contribute to some degree of uncertainty in the conclusions made in the report. However, it should be noted that the conclusions made in the report are also based on a relatively large oil and grease database.

Cawelo has been collected water quality data since 2002. There is now a water quality database that contains more than 176 data points. This historical oil and grease data was used here to gauge compliance with regulatory standards and to estimate fluctuations and variability in the historical concentration of petroleum-derived chemicals in Cawelo's irrigation water. Analysis of oil and grease data demonstrated that petroleum-derived compounds in produced water have been consistently low; with very little variability; and always well below the maximum allowable concentration of 35 mg/L. Given the available oil and grease data it can be concluded with a high degree of certainty that petroleum hydrocarbons in produced water have been (and are) well within level considered acceptable to the U.S. EPA and to the CSWRCB.

While the quantity of oil and grease analytical data is now sufficient, the quality of this data is not optimal. As stated in Section 3.1, Method 1664 (Oil and Grease) is not the best analytical method that can be used to quantify petroleum hydrocarbons in water. Method 1664 reports nonpolar compounds that are not petroleum-derived compounds and also under-reports petroleum derived compounds that are either more volatile than hexane or that are not soluble in hexane. It is recommended that, in the future, water samples be consistently analyzed using U.S. EPA Method 8015B (Total Petroleum Hydrocarbons).

As stated above, water quality analytical data that included the identification and quantification of individual petroleum-derived compounds is available for only one sampling event. This analytical data can be considered to be of high quality but limited in quantity. It is thus recommended that water quality at the Cawelo Ponds be routinely analyzed for individual volatile organic compounds using U.S. EPA Method 8260B and for PAHs using U.S. EPA Method 8270C-SIM. Potential health risks and hazards, if any, posed by detected compounds should be re-evaluated once a stronger water quality analytical database is available.

# 9.0 References

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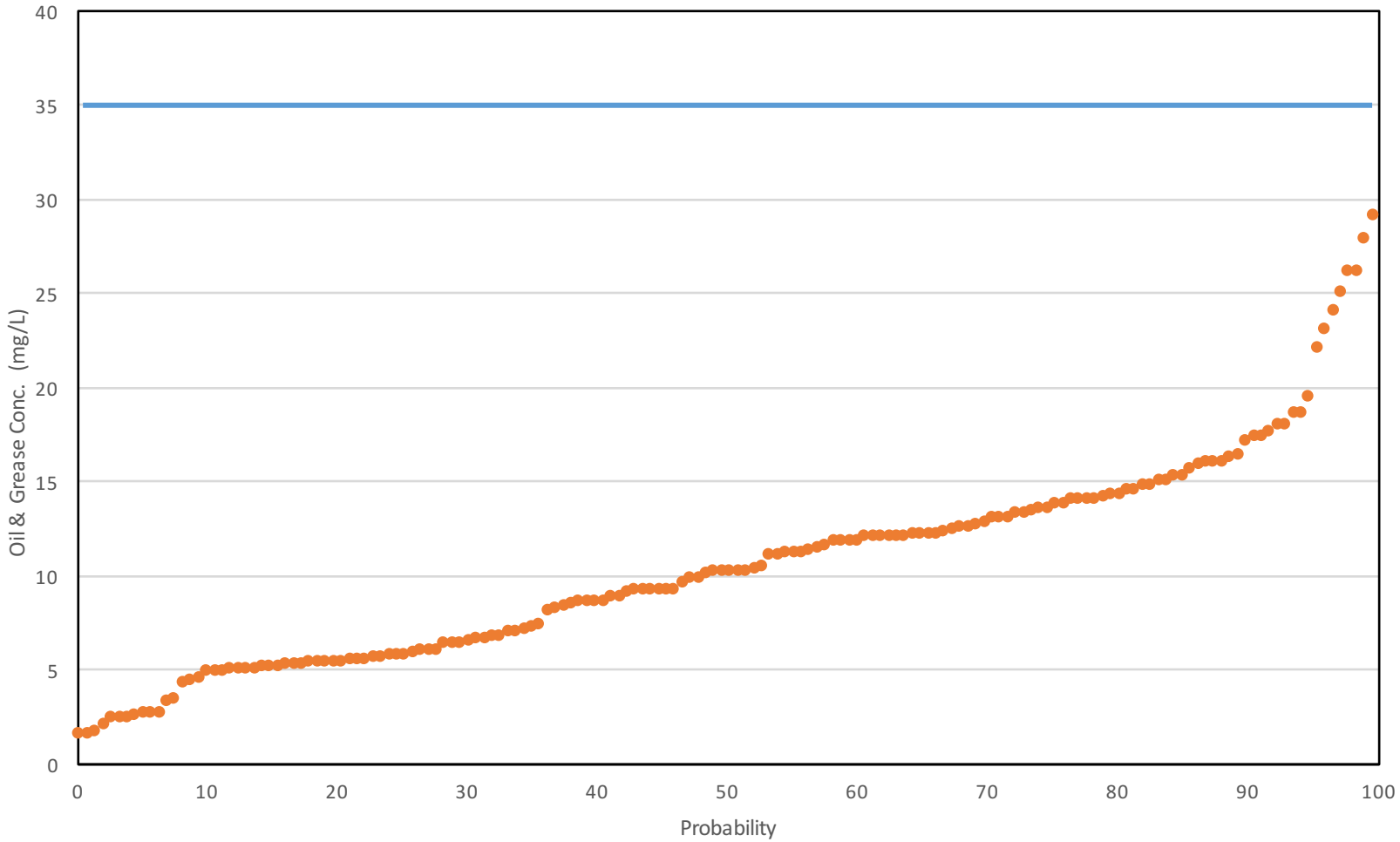
# FIGURES

# Cawelo Ponds

17207 Industrial Farm Road, Bakersfield, CA 93308

**Figure 1**




Legend:

Maximum Allowable Concentration

Oil and Grease Concentration (mg/L) in Water

ENVIRO-TOX services, inc.

**Figure 2**

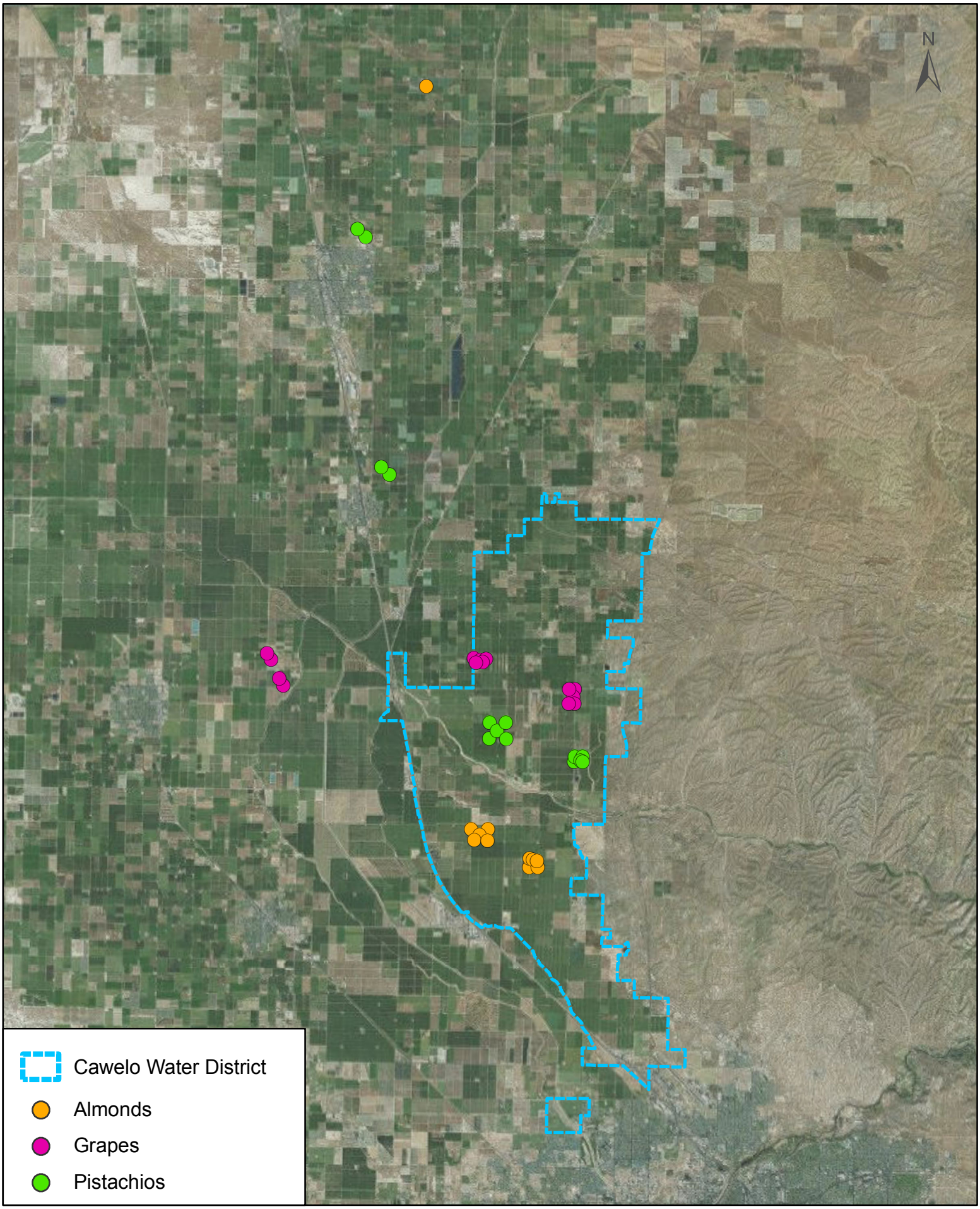
**Oil and Grease in Water Probability Plot**

| | |
|---|---|
| Date: | 04/07/16 |
| Project Name: | Irrigation Water Quality Evaluation |
| Source: | |

# Test and Control Fruit Sampling Locations

17207 Industrial Farm Road, Bakersfield, CA 93308

**Figure 3**



# APPENDIX A

## Dr. Heriberto Robles Resume

## HERIBERTO ROBLES, M.S., PH.D., D.A.B.T.

Board Certified Toxicologist

*environmental toxicology*
*human and ecological risk assessment*
*risk-based corrective action*
*air quality*
*industrial health and safety*

Dr. Robles is a Diplomate of the American Board of Toxicology (DABT) with 35 years of experience in environmental toxicology and human health and environmental risk assessment for industrial, real estate, and governmental clients. Dr. Robles has conducted, managed, and/or collaborated on numerous risk assessment projects at many sites including mining and military facilities, proposed public school sites, hazardous waste landfills, oil fields as well as commercial and industrial facilities. For example, Dr. Robles has evaluated the health hazards associated with the presence of radionuclides, perchlorate, dioxins/furans, petroleum hydrocarbons, volatile and semivolatile organics, polynuclear aromatics, PCBs, chlorinated solvents, pesticides, asbestos and metals in environmental media. Dr. Robles has also conducted health risk assessments for human exposure to volatile organic compounds, radon gas and electromagnetic fields. Dr. Robles has provided litigation support and conducted toxicological evaluations of environmental and industrial chemicals and has communicated risk information to regulatory agencies and the general public. Dr. Robles has served as corporate environmental coordinator for a national pharmaceutical company, Director of Risk Assessment and Health and Safety programs for environmental consulting firms, Study Director in a contract toxicology laboratory, and Toxicology Consultant on a multinational scientific panel.

Dr. Robles is an experienced speaker on health risk assessment and environmental toxicology. He has given presentations at the *4th Internaltional Seminar on Environmental Issues in Mining* in Lima, Peru; *Seminario Internacional de Gestión Ambiental de Pasivos y Sitios Industriales* in Viña del Mar, Chile; Chilean Ministerio del Medio Ambiente (Ministry of the Environment); Water in Mining Conference 2012 in Santiago de Chile; at the Chilean National Mining Society (SONAMI); at the California Unified Program Annual Training Conference, the American Chemical Society's (ACS) National Meeting in San Francisco, California and New Orleans, Louisiana; Executive Enterprises' California Environmental Regulatory Course in Sacramento, California; the Air & Waste Management Association, West Coast Section, in San Francisco, California; the Association for the Environmental Health of Soils in San Diego and Oxnard, California; and, the Arizona Department of Environmental Quality in Phoenix, Arizona.

### EDUCATION

Analyzing Risk: Science, Assessment, and Management. Harvard School of Public Health. Boston, Massachusetts. 2012.

RESidual RADioactive (RESRAD) Materials Fate-and-Transport Modeling and Risk Assessment. Argonne National Laboratory and U.S. Department of Energy. Argonne, Illinois. May 2011.

The Risk Communication Challenge. Harvard School of Public Health. Boston, Massachusetts. 2005.

Probabilistic Risk Analysis: Assessment, Management, and Communication. Harvard School of Public Health. Boston, Massachusetts. 2002

Mid-America Toxicology Course, Kansas City, Kansas: 1995

University of California at Irvine: Certificate in Hazardous Materials Management, 1991

Massachusetts Institute of Technology: Quantitative Risk Assessment for Environmental and Occupational Hazards, 1991

Postdoctoral Studies in Immuno-Toxicology, University of Texas at El Paso, 1986

New Mexico State University, Las Cruces, New Mexico: Ph.D. Animal Science and Toxicology, 1985

New Mexico State University, Las Cruces, New Mexico: M.S. Animal Science and Toxicology, 1983

Universidad de Sonora, Sonora, Mexico: B.S. Animal Science, 1980

## REPRESENTATIVE EXPERIENCE

- **Project manager for a Risk Assessment of Mining Waste Accidental Release into Bacanuchi and Sonora Rivers in Mexico.** On August of 2014 a spill of approximately 40,000 cubic meters of sludge and mining waste occurred from Minera Buenavista in Sonora, Mexico. The spill flowed into the Bacanuchi and Sonora rivers, which empty into El Molinito dam. The rivers and dam potentially affected serve the water needs of about 1.5 million people. The objective of the Risk Assessment was to evaluate the potential health risks and hazards posed by heavy metals released from the mining facility. Results of the risk assessment were used to implement risk control measures for the protection of municipal water supplies.

- **Project manager for a Human Health Risk Assessment** at a former oil refinery facility in Miri, Sarawak, Malaysia. The primary objective of the Risk Assessment was to evaluate the potential health risks and hazards posed by petroleum hydrocarbons and lead that were detected in shallow soils, groundwater and surface water at and around the site. Results of the Risk Assessment indicated that, in the absence of soil remediation, some site-related chemicals may be present at concentrations that could pose a health risk to hypothetical future onsite receptors including construction workers, adult and child residents, and future onsite workers. In anticipation of site remediation activities, Risk- Based Target Levels (RBTL) were developed for the Site. The RBTL's proved acceptable to the local environmental regulatory agency and were successfully implemented.

- **Lecturer.** Conducted a 32-hour intensive training in Environmental and Human Health Risk Assessment for technical personnel at the Chilean Ministry of the Environment (*Ministerio del Medio Ambiente, Gobierno de Chile*). The objective of the training seminar was to provide Ministry personnel with the tools necessary to conduct and review Health Risk Assessments for contaminated sites.

- **Expert witness.** Served as expert witness in the Golden Triangle Construction, Inc. v. Dynamic Sports Construction, Inc. case (District Court, Adams County, Colorado, Case No. 2009 CV 1425, Division A). Case involved alleged mercury vapor exposure associated with renovation of rubberized gym floor. Conducted mercury vapor exposure assessment and dose exposure reconstruction studies. Also conducted technical analysis of Industrial Hygiene reports and records, health risk assessment, and preparation of an exposure assessment report. The exposure assessment provided the basis of testimony in the areas of toxicology and occupational health.

- **Project manager responsible for preparing workplans** for site characterization, human and ecological risk assessments and site remediation of Peru's La Oroya Metallurgical Complex. Work was conducted at the request of Peru's *Empresa Minera del Centro del Peru, S.A. – Centromin.* Through implementation of the workplans, Centromin was seeking to define (1) the area currently impacted by emissions released to the air by the La Oroya Metallurgical Complex (LOMC); (2) current levels of contamination in soil that can be attributed to LOMC emissions; (3) the potential threats to human and ecological receptors posed by emissions residuals that can still be found in the environment within the affected area; and (4) remedial alternatives that could be implemented to mitigate or reduce potential health risks and hazards identified. Workplans were reviewed and approved by Peru's *Ministerio de Energia y Minas.*

- **Project manager for a Human Health and Ecological Risk Assessment** at an active military research facility located in central California. Environmental investigations conducted at the facility detected several chemicals including perchlorate, metals, nitrate, nitrite, energetics and trace levels of semi-volatile organic compounds in soil and shallow groundwater within discrete areas of the site. The objectives of the Risk Assessment were to (1) estimate the potential future risk to human health; (2) estimate the potential threat posed by site-related chemicals to ecological receptors; and, (3) develop site-specific, risk-based concentrations for the protection of human health and ecological receptors. Exposure pathways evaluated in this Risk Assessment for human receptors included (1) accidental ingestion of soil, (2) dermal contact with soil and dust, (3) inhalation of soil particles suspended in air, and (4) consumption of homegrown fruits and vegetables. Soil cleanup levels for protection of groundwater resources were also developed.

- **Toxicology Consultant** for the International Silva Reservoir Panel, Commission for Environmental Cooperation (CEC), Montreal, Quebec, Canada. The CEC was created by the North American Free Trade Agreement (NAFTA) to resolve environmental issues between countries participating in NAFTA. The panel of selected scientists from Canada, Mexico, and the United States was convened by the CEC to provide scientific and technical assessment related to the deaths of 40,000 waterfowl at a reservoir in Mexico.

- **Project manager for Human Health Risk Assessment.** Conducted a Human Health Risk Assessment for the Runkle Ranch property in Simi Valley, California. The Runkle Ranch property is located adjacent to the Santa Susana Field Laboratory (SSFL), a former nuclear reactor and rocket testing facility. The Runkle Ranch property was found to be contaminated with chemical and radioactive substances from the SSFL site. A home developer interested in developing the Runkle Ranch property for residential use commissioned the Risk Assessment study. The objective of the risk assessment was to determine whether the presence of chemical and radiological contaminants in soil represented a health risk to future occupants of the site. Results of the risk assessment showed that the property could be safely developed for residential

use. The Simi Valley City Council approved a project to build 461 homes on the 1,595-acre property.

- **Project manager for Human Health and Environmental Risk Assessment** at a vacant 500+ acre property in Nevada surrounded by an industrial park, a former landfill, wastewater treatment ponds, and a residential development. Plans for development of the property included the construction of a retirement community and a golf course. Site assessments had identified the presence of radionuclides and trace amounts of industrial solvents and chlorinated hydrocarbons in soil and groundwater. The objective of the risk assessment was to evaluate whether the presence of such chemicals in soil and groundwater represented a health risk to future occupants of the site. Results of the risk assessment showed that the property could be safely developed for residential use, and that there was no need to remove anthropogenic chemicals found in soil and groundwater.

- **Project manager for a Human Health and Ecological Assessment.** Conducted a Human Health and Ecological Risk Assessment for the former BKK Landfill in the City of Carson, California. The former landfill was used to dispose of industrial chemicals, petroleum production wastes, and domestic rubbish. The Victoria Golf Course and other recreational, industrial and commercial facilities currently occupy the site. The risk assessment included the evaluation of potential health risks to offsite residents, onsite adult and child recreational receptors, onsite golf course workers and construction workers. The Ecological portion of the evaluation included a qualitative and qualitative appraisal of the potential effects the site might have on plants and animals other than people and domesticated species. Results of the Human Health and Ecological Risk Assessment were used to evaluate the potential for the former BKK Landfill to pose an unacceptable risk or hazard to human and ecological receptors. The Human and Ecological Risk Assessment report was reviewed and approved by the California Department of Toxic Substances Control.

- **Project manger for a Human Health and Ecological Risk Assessment** at a former military facility located in the San Francisco Bay area. The major objectives of the Risk Assessment were to (1) estimate the magnitude of potential human health risks associated with the most likely future land use conditions; (2) identify environmental media and contaminants that pose a significant threat to human and ecological receptors; (3) identify environmental contaminants that pose little or no risk to humans and ecological receptors; and, (4) provide the basis to support risk management decisions about the need for further action at the site. The human health portion of the Risk Assessment estimated potential health risks under "total," "incremental," and "ambient" risk scenarios. These scenarios were developed specifically for the military facility in consultation with federal and state health and environmental protection regulatory agencies. "Total" risk represents the risks from potential exposure to all detected analytes (inorganic and organic) present at the site at concentrations above ambient concentrations. "Incremental" risk represents risks from potential exposures to the subset of chemicals detected at concentrations above ambient concentrations and with maximum chemical concentrations above conservative residential risk-based screening concentrations. "Ambient" risk represents the risk from exposure to inorganic chemicals that are within the background soil concentration range defined for the site. The Risk Assessment report was reviewed and well received by the U.S. Navy, the U.S. Environmental Protection Agency and the California Department of Toxic Substances Control.

- **Project manager for a Toxicological Evaluation** of perchlorate in soil and produce. The need for a toxicological evaluation arose when a farming company in Redlands, San Bernardino County, California, was informed that the water they were using for irrigation was contaminated with perchlorate. The source of perchlorate was traced back to an industrial facility 6 miles upgradient from the farm. A subsequent site assessment revealed the presence of trace quantities of perchlorate in soil and vegetable edible material. As part of the evaluation, a pilot study was conducted to determine the perchlorate degradation rate in soil. Results of the toxicological evaluation indicated that the concentrations of perchlorate in soil and produce were too low to represent a health risk to persons exposed to soil at the site or to consumers of vegetables grown at the farm. Results of the pilot degradation study indicated that perchlorate degrades rapidly in soil in the presence of adequate amounts of organic matter and soil moisture. The toxicological evaluation of perchlorate was published as a book chapter (see H. Robles, 2000a).

- **Task manager for Human and Ecological Screening Risk Evaluations.** Conducted numerous human health and ecological risk assessments for existing and proposed school sites in Southern California. The risk assessments were conducted in accordance with the California Department of Toxic Substances Control's (DTSC) Preliminary Endangerment Assessment guidance. Sites evaluated contained various potential contaminants including agricultural pesticides, dioxins/furans, hydrogen sulfide, heavy metals, petroleum hydrocarbons and chlorinated hydrocarbons. Several risk evaluations were instrumental to obtain "No Further Action" recommendations from the DTSC.

- **Project manger for several Health Risk Assessments** for real estate properties found to contain pesticide residues. The objective of the risk assessments was to determine if pesticide residues in soil represented a threat to occupants of future developments planned for the properties. Examples of sites evaluated recently include an orange grove in Riverside, California; a military housing facility in Alameda, California; and a school campus in Northridge, California. The results of the risk assessments were used to determine regional, background pesticide concentrations; to define acceptable pesticide residue levels; to design cost-effective risk control measures; or to obtain "No Further Action" recommendations from state and local regulatory agencies.

- **Project director for Human Health Risk Assessment** at a California Superfund Site in Huntington Beach, California. The former landfill was used to dispose of industrial chemicals, waste drilling mud, petroleum production wastes, and construction/demolition debris. The risk assessment included the evaluation of potential health risks to offsite residents, onsite workers, trespassers and ecological receptors. The risk assessment was also used to set risk-based cleanup levels for chemicals identified at the site. In addition, risk assessment techniques were used to design a waste recycling plan for some of the waste materials found at the site. Risk-based cleanup levels and remedial alternatives were reviewed and approved by the California Department of Toxic Substances Control (DTSC).

- **Project manager for a Risk Assessment** of a California Superfund Site in Santa Fe Springs, California. The site was formerly used to dispose of oil well drilling mud and drilling wastes, and was contaminated with asbestos, lead, barium, PCBs, polynuclear aromatics, and petroleum hydrocarbons. The risk assessment considered evaluation of potential exposure of future on- and off-site residents, including children in a neighboring day care center. Results of the risk assessment were used to demonstrate that site activities did not contribute to existing

groundwater contamination, negotiate soil cleanup goals, and select cost-effective and safe remedial alternatives.

- **Project manager for a Health Risk Assessment** of a RCRA-permitted facility in Southern California. Conducted an Environmental and Human Health Risk Assessment for an active hazardous waste storage facility to determine if the addition of new waste streams to the facility would represent a potential health threat to the surrounding community. Results of the risk assessment showed that the hazardous waste contractor had adequate facilities and the addition of new waste steams would not represent a health hazard. The risk assessment was used in support of an application for RCRA permit expansion.

- **Project manager for various Proposition 65 projects -** Responsible for evaluating current or potential exposures to chemicals regarded by the State of California to be carcinogenic or reproductive toxicants. Activities included interpretation of Proposition 65 No Significant Risk Levels (NSRL), evaluation of lender or developer liability from contaminated wastes at a property, assessment of current facility emissions to assess "duty to warn" and other reporting requirements and litigation support.

- **Project Manager for evaluation of heath hazards** associated with the presence of methane and hydrogen sulfide in subsurface soil within a residential and commercial area of Newport Beach, California. Evaluated the potential health and environmental risks associated with methane and hydrogen sulfide gases under the area proposed for the Balboa Project in the City of Newport Beach, California. The assessment included the evaluation of potential health risks to construction workers as well as to occupants of the site and its visitors. Results of the risk assessment were used to design and select risk control measures.

- **Project manager for Human Health and Environmental Risk Assessments** at former gasoline service stations in Arizona. Conducted risk assessments following the Arizona Department of Health Services' (ADHS) and Arizona Department of Environmental Quality's (ADEQ) Risk Assessment Guidelines for Underground Storage Tank Sites. Risk assessments developed for the sites were used to request no further action from regulatory agencies. During development of the risk assessments, several conversations were held with Dr. Phil Amadi of the ADEQ regarding the danger of compounding conservatism in risk assessment. Based on these discussions, Dr. Amadi invited Dr. Robles to give a presentation to ADEQ staff on the appropriate use of fate and transport modeling in risk assessments.

- **Served as Staff Toxicologist** for the Center for Rehabilitation and Occupational Health, Saint Francis Memorial Hospital, San Francisco, California. Evaluated patients suspected of occupational injury from chemical exposure, wrote toxicological evaluations of suspected etiological agents, and provided litigation support.

- **Served as Toxicology Study Director** conducting studies to assess the pharmacological and toxicological properties of chemicals and pharmaceuticals. The studies were conducted under Good Laboratory Practice (GLP) regulations to support applications for U.S. EPA and FDA registration of the tested compounds.

## PUBLICATIONS AND PRESENTATIONS

Robles, H. and C. Wechsler. 2015. *Risk Evaluation of Mining Waste Accidental Release into Bacanuchi and Sonora Rivers, Mexico.* In*: 4th International Seminar on Environmental Issues in Mining*. Lima, Peru. December 2-4.

Robles, H. 2013. *The Strategic Roles of Risk Assessment in Environmental Restoration Projects*. In: *3rd International Seminar on Environmental Issues in Mining*. Santiago, Chile. December 4-6.

Robles, H. 2013. *Ecological Risk Assessment of an Abandoned Mine Site.* In: *3rd International Seminar on Environmental Issues in Mining*. Santiago, Chile. December 4-6.

Gamboa, M., Vogdt, J., and H. Robles. 2013. *Risk Assessment Under the New Chilean Soil Quality Regulation.* In: *3rd International Seminar on Environmental Issues in Mining*. Santiago, Chile. December 4-6.

Robles, H. 2012. *Evaluación de Riesgos y su Utilidad en la Gestión de Sitios Contaminados*. In: *Seminario Internacional: Gestión Ambiental de Pasivos y Sitios Industriales, Un Desafío Permanente*. Fundación Chile. Viña del Mar, Chile. October 9 and 10.

Robles, H. *Evaluación de Riesgo Ambiental, Novedades y Aplicaciones Practicas en la Gestión Ambiental Minera*. Sociedad Nacional Minera (SONAMI). Santiago, Chile. June 7, 2012.

Robles, H. Recent Advances in Environmental Risk Assessment. Oral and Poster Presentations at the Water in Mining 2012 Conference. GECAMIN Conferences for Mining. Santiago, Chile. June 6-8, 2012.

Robles, H. 2014. 4-Aminophenyl, 3-Methylcholanthrene, Acetonitrile, Butyl Ether, Dimethylaminoazobenzene, Furan, Naphthalene, Nitrosamines, Phosphorus, Tannic Acid, Urethane and Vinyl Acetate. In: Wexler, P.A., ed. Encyclopedia of Toxicology, Third Edition. Elsevier Academic Press.

Robles, H. and S. Stoewer. 2010. The Nuts and Bolts of the Risk Assessment Process and Its Importance in Obtaining Site Closure for Contaminated Property. Presentation at the Orange County Bar Association, Environmental Law, June Meeting. Costa Mesa, California. June 3.

Fletcher, C., Stoewer, S. and Robles, H. 2010. Anaheim Brownfield Projects: Best Practices and Lessons Learned. Presentation at the Annual Meeting of the California Redevelopment Association's Brownfield Committee. Anaheim, California. February.

Robles, H. 2010. Reviewing Risk Assessment Reports: Principles and Applications. Presentation at the 12th California Unified Program Annual Training Conference. Burlingame, California. February.

Robles, H. 2010. Conceptual Site Model – What, Why, How, When? Presentation at the 12th California Unified Program Annual Training Conference. Burlingame, California. February.

Robles, H. 2010. Risk Assessment: Concepts and Practical Applications. Guest Lecturer. Industrial Toxicology Course. University of California at Irvine. Irvine, California. February.

Robles, H. 2009. Reviewing Risk Assessment Reports: Principles and Applications. Presentation at the City of Santa Fe Springs California Unified Program Office. Santa Fe Springs, California. November.

Robles, H. 2009. Health Risk Assessment. Guest Lecturer. Industrial Toxicology Course. University of California at Irvine. Irvine, California. February.

Robles, H., Jeng, C.Y., and Fletcher, C. 2008. Health Risk Assessment and Management. Presentation at the U.S. Environmental Protection Agency's "Nuts & Bolts of Brownfield Development for Local Governments" Course. Los Angeles, California. April.

Lizzi, A. and Robles, H. 2006. Evaluation of Vapor Intrusion of VOCs to Indoor Air Pathway at a Proposed School Site in Los Angeles, California. Poster and Presentation at the National Groundwater Association's Western Focus Groundwater Conference. San Francisco, California. May.

Robles, H. 2005. Risk Assessment: Concepts and Practical Applications. Training Course for the City of Anaheim's Redevelopment Agency and Public Utilities Department. Anaheim, California. April.

Robles, H. 2005. 4-Aminophenyl, Acetonitrile, Butyl Ether, Dimethylaminoazobenzene, Formic Acid, Furan, Naphthalene, Nitrosamines, Phosphorus, Sulfuric Acid, Tannic Acid, Urethane and Vinyl Acetate. In: Wexler, P.A., ed. Encyclopedia of Toxicology, Second Edition. Elsevier Academic Press. ISBN: 0-12-745354-7.

Pleus, R.C., H.M. Ammann, R.V. Miller and H. Robles. 2003. Toxicology. In: Biological Risk Engineering Handbook, Infection Control and Decontamination. Boss, M.J. and D.W. Day, Editors. Lewis Publishers.

Ammann, H.M., R.V., Miller, H. Robles and R.C. Pleus. 2003. Risk Assessment. In: Biological Risk Engineering Handbook, Infection Control and Decontamination. Boss, M.J. and D.W. Day, Editors. Lewis Publishers.

Copeland, T.L., H. Robles, J.G. Van de Watere and C.E. Schmidt. 2002. Measurement and Use of Assessment Data for Indoor Air Exposure Assessment. Symposium on Air Quality Measurement Methods and Technology-2002. Air & Waste Management Association. San Francisco, California. November.

Robles, H. and T.L. Copeland. 2002. Comparative Toxicity of Gasoline Oxygenates. SAM Forum & Symposium On MTBE and Other Oxygenates. San Diego, California. September.

Robles, H. 2002. Decommissioning – Biological Risk, a Continuing Education Course (PDC 702). Course Given at the American Industrial Hygiene Association Conference and Exposition. June 1 – 6, 2002. San Diego, California. Instructors: Bader, M., Boss, M., Day, D., Pleus, R., and Robles, H.

Robles, H. 2000a. Risk Assessment of Perchlorate in Biota, Soil, and Groundwater at Agricultural Site in Southern California. Chapter 20 in: E. T. Urbansky (Ed.) Perchorate in the Environment. pp. 213-217. Kluwer Academic/Plenum Publishers, New York, NY.

Robles, H. 2000b. Problems and Solutions in the Sitting of Waste Water Treatment Plants from the Public Relations Perspective. Presentation at the Irvine-Hermosillo Water Resources Conference, Hermosillo Ten-Year Anniversary, Irvine, California. May.

Robles, H. 2000c. Risk Assessment of Perchlorate Contamination at an Agricultural Field. Presentation at the Tenth Annual West Coast Conference on Contaminated Soils and Groundwater. Sponsored by the Association for the Environmental Health of Soils and the U.S. Navy. San Diego, California. March.

Robles, H. 2000d. Gasoline Oxygenates: Is There a "Safer" Alternative to the Use of MTBE? Presentation at the Tenth Annual West Coast Conference on Contaminated Soils and Groundwater. Sponsored by the Association for the Environmental Health of Soils and the U.S. Navy. San Diego, California. March.

Robles, H. 2000e. Better Science and Less Conservatism. Commentary in: Speak your Mind, Risk Excellence Notes, Volume 2, Number 2. Newsletter of the Center for Risk Excellence, U.S. Department of Energy. January.

Robles, H. and T.T. Schuhmacher. 2000. Gasoline Oxygenates: Is there a "Safer" Alternative to the Use of MTBE? In: Exploring the Environmental Issues of Mobile, Recalcitrant Compounds in Gasoline. Presentation at the 219th National Meeting and Exposition of the American Chemical Society. San Francisco, California. March.

Robles, H. 1999a. *Evaluación de Riesgos a la Salud en Sitios Contaminados con Residuos Peligrosos*. Presentation at the III Mexican Convention of Toxicology. Ciudad Obregón, Sonora, Mexico. November.

Robles, H. 1999b. *Estudio de Riesgos a la Salud en un Campo Agrícola Contaminado por Perclorato de Amonia*. Presentation at the III Mexican Convention of Toxicology. Ciudad Obregón, Sonora, Mexico. November.

Robles, H. 1999c. Use and Misuse of Toxicological Information: Advance and Solutions. Information Technology and the Environment. In: Pollution Engineering Online. Web Exclusive. http://www.pollutionengineering.com. September.

Robles, H. 1999d. Risk Assessment of Perchlorate in Biota, Soil and Groundwater at Agricultural Site in Southern California. American Chemical Society's 218th National Meeting. New Orleans, Louisiana. August.

Robles, H. 1999e. Gasoline Oxygenates: Is there a "Safer" Alternative to the Use of MTBE? Presentation at the July meeting of the American Chemical Society's MTBE Ad Hoc Committee. California State University - Fullerton. Fullerton, California. July.

Robles, H. 1999f. The Role of Risk Assessment in Site Characterization and Remediation. Presentation at the Executive Enterprises' California Environmental Regulation Course. Sacramento, California. March.

Robles, H. 1999g. Principles of Environmental Risk Assessment. Presentation to the Underground Storage Tank Regulatory Group of the Arizona Department of Environmental Quality. Phoenix, Arizona. January.

Stover, R. and H. Robles. 1999. Public Dissemination of Industry Data: Is it a Threat or a Safeguard to your Facility? Information Technology and the Environment. In: Pollution Engineering Online. Web Exclusive. http://www.pollutionengineering.com. October.

Robles, H. 1998a. MTBE in Soil, Water and Air: A Multi-Media Risk/Benefit Analysis for Southern California. Presentation at the Air & Waste Management Association, West Coast Section's December Meeting. Rosemead, California. December.

Robles, H. 1998b. Risk-Based Corrective Action (RBCA) at MTBE Contaminated Sites. Presentation at the November meeting of the American Chemical Society's MTBE Ad Hoc Committee. California State Fullerton. Fullerton, California. November.

Robles, H. 1998c. Risk Assessment in Real Estate Transactions. In: How to Control your Environmental Destiny in Major Real Estate Deals. Presentation at the Creative Environmental Risk Management Seminar. Department of Business and Management, Legal and Business Programs. UCLA Extension. June.

Robles, H. 1998d. Effective Risk Communication. Presentation at the 1998 Western States Community Awareness Emergency Response Conference. Long Beach, California. May.

Robles, H. 1998e. Acetonietrile, Benzene, Butyl ethyl ether, Butyl methyl ether, Carbon tetrachloride, Cyanamide, Formic acid, Gold, Nitrosamines, Polybrominated biphenyls, and Urethane. In: Wexler, P.A., ed. Encyclopedia of Toxicology, Chemicals and Concepts. Academic Press.

Robles, H. 1998f. Session Moderator, Environmental and Public Health Effects. The Eighth Annual West Coast Conference on Contaminated Soils and Groundwater. Oxnard, California. March.

Robles, H. 1997a. MTBE: Clean Air or Health Risk? Presentation at the December Meeting of the Orange County Women's Environmental Council. Irvine, California. December.

Robles, H. 1997b. Proposed MTBE Toxicological Parameters for Risk Based Corrective Action at Petroleum Release Sites. Presentation at the Seventh Annual West Coast Conference on Contaminated Soils and Groundwater. Sponsored by the Association for the Environmental Health of Soils and the U.S. Navy. Oxnard, California. March.

Robles, H. 1997c. Toxicology of Common Drinking Water Pollutants. Presentation at the 1997 Trilateral Exchange on Water Resources Management. Fountain Valley, California. March.

Robles, H. 1997d. Environmental Toxicology as a Profession. Presentation at the Brywood Career Awareness Day. Brywood Elementary School. Irvine, California. March.

Robles, H. 1997e. Risk-Based Corrective Action for MTBE Contaminated Sites. PETROSAFE '97. 8th Annual International Energy Week Conference & Exhibition. Houston, Texas. January.

Robles, H., and K. Bewley. 1997. MTBE: Clean Air or Environmental Risks? Presentation at the Seventh Annual West Coast Conference on Contaminated Soils and Groundwater. Sponsored by the Association for the Environmental Health of Soils and the U.S. Navy. Oxnard, California. March.

Robles, H. 1996a. Human Health and Environmental Risk Assessment. Presentation at Phelps Dodge Corporation Annual Environmental Coordinators Meeting, Phoenix, Arizona. October.

Robles, H. 1996b. The Use of Risk Assessment in Environmental Restoration Projects. Presentation to the Los Angeles County Fire Department. September.

Robles, H. 1996c. Environmental Risk Assessment in 1996 and Beyond. Guest speaker at the January 1996 meeting of the Arizona Hazardous Waste Society. Phoenix, Arizona.

Robles, H., and D. Manweiler. 1996. The Role of Risk Assessment in the New Regulatory Climate. PETROSAFE '96. Cosponsored by the American Petroleum Institute and ASME International. Houston, Texas. January.

Robles, H., B. Halffman, and D. Manweiler. 1996. Use of the ASTM Standard for Risk-Based Corrective Action to Support No Further Action at Remediated Petroleum Waste Sites. PETROSAFE '96. Cosponsored by the American Petroleum Institute and ASME International. Houston, Texas. January.

Robertson, M., H. Robles, and D. Manweiler. 1996. Oilfield Property Development: Risk Assessment, Management and Control. PETROSAFE '96. Cosponsored by the American Petroleum Institute and ASME International. Houston, Texas. January.

Robles, H. 1995a. Risk-Based Corrective Action Programs in Arizona. Presentation made in the Risk Assessment and Risk Based Site Closure Seminar sponsored by Environmental Science & Engineering, Inc. Phoenix, Arizona. October.

Robles, H. 1995b. Use of the ASTM Standard for Risk-Based Corrective Action to Support No Further Action at Remediated Petroleum Waste Sites. Annual Meeting of the Pacific Northwest Chapter of the Society of Environmental Toxicology and Chemistry. Seattle, Washington. May.

Robles, H. 1995c. Risk Assessment and Vadose Zone Fate and Transport Modeling. Presentation to the Arizona Department of Environmental Quality, Southern Regional Corrective Actions Unit. Phoenix, Arizona. February.

Robles, H. 1995d. The Role of Risk Assessment in the New Regulatory Climate. Orange County Bar Association, Environmental Law Section. Santa Ana, California. February.

Robles, H., and D. Manweiler. 1995. Risk Assessment: Why It Is the Hot Issue. Poster Presentation. Annual Meeting of the Pacific Northwest Chapter of the Society of Environmental Toxicology and Chemistry. Seattle, Washington. May.

Robles, H. 1993. Introduction to U.S. EPA's Toxic Substances Control Act. Guest Speaker, Environmental Studies 595 Course, California State University Fullerton. Fullerton, California. August.

## CERTIFICATIONS

Diplomate of the American Board of Toxicology, 1996; Re-certified 2001, 2006, 2011 and 2016.

## AFFILIATIONS

American Board of Toxicology

Society of Toxicology, Full Member

Society for Risk Analysis

Southern California Chapter of the Society of Toxicology

Southern California Chapter of the Society for Risk Analysis

## PROFESSIONAL HISTORY

Enviro-Tox Services, Inc. Principal Toxicologist, 2000 – Present

Golder Associates, Inc. Toxicologist, 2012 – Present

ARCADIS-US. Consulting Toxicologist, 2004 – 2012

URS Corporation. Senior Toxicologist, 2000-2005.

LFR Levine·Fricke Inc., Senior Associate Toxicologist, 1997–2000

Environmental Science & Engineering, Inc., Director of Risk Assessment and Toxicology, 1994–1997

Harding Lawson Associates, Associate Environmental Toxicologist, 1991–1994

EA Engineering Science and Technology, Inc., Senior Scientist, 1990–1991

Biological Test Center, Study Director; Quality Assurance; and Environmental Coordinator, 1987–1990

Center for Rehabilitation and Occupational Health, Toxicology Internship, 1986–1987

University of Texas at El Paso, Postdoctoral Researcher, 1985–1986

New Mexico State University, Research Assistant, 1981–1985

# APPENDIX B

## Amec Foster Wheeler Environmental & Infrastructure, Inc. Technical Report: Reclaimed Water Impoundments Sampling. Cawelo Water District Ponds, June 15, 2015

# RESPONSE TO REGIONAL WATER QUALITY CONTROL BOARD DATA REQUEST, RECLAIMED WATER IMPOUNDMENTS SAMPLING

Cawelo Water District Ponds

Kern River Oil Field, Kern County, California

*Prepared for:*

**Chevron U.S.A. Inc.**
Kern River Oil Field
Kern County, California 93308

*Prepared by:*

**Amec Foster Wheeler Environment & Infrastructure, Inc.**
1281 East Alluvial Avenue, Suite 101
Fresno, California 93720
(559) 264-2535

June 26, 2015

Project FR1416063A

**RESPONSE TO REGIONAL WATER QUALITY DATA REQUEST, RECLAIMED WATER IMPOUNDMENT SAMPLING**
Cawelo Water District Ponds
Kern River Oil Field, Kern County, California

June 26, 2015
Project FR1416063A

This report was prepared by the staff of Amec Foster Wheeler Environment & Infrastructure, Inc., under the supervision of the Geologists whose seals and signatures appear hereon.

The findings, recommendations, specifications, or professional opinions presented in this report were prepared in accordance with generally accepted professional geologic practice and within the scope of the project. No other warranty, express or implied, is provided.

PROFESSIONAL GEOLOGIST
Gary L. Kramer
No. 7308
STATE OF CALIFORNIA

Gary L. Kramer, PG
Senior Associate Geologist

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## APPENDICES


Appendix A Laboratory Analytical Reports

# RESPONSE TO REGIONAL WATER QUALITY DATA REQUEST, RECLAIMED WATER IMPOUNDMENT SAMPLING

Cawelo Water District Ponds
Kern River Oil Field, Kern County, California

## 1.0 INTRODUCTION

Chevron U.S.A. Inc. (Chevron) received a request from Mr. Josh Mahoney of the Central Valley Regional Water Quality Control Board (RWQCB) on June 22, 2015 requesting that Chevron provide the full suite of Volatile Organic Compounds (VOCs) results for United States Environmental Protection Agency (EPA) analytical Method 8260B for water samples previously collected related to the Cawelo impoundments. Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler) has prepared this report to satisfy the RWQCB data request.

The Cawelo Water District ponds (Cawelo ponds) are located near the Kern River Oil Field (Figure 1). The produced water delivered to the Cawelo ponds is reclaimed and treated for agricultural irrigation. Five water samples were collected from locations shown on Figure 2 between April 21 and 22, 2015. The water samples were originally analyzed for VOC constituents (benzene, toluene, ethylbenzene, total xylenes, and acetone) by EPA Method 8260B by TestAmerica Laboratories, Inc. (TestAmerica).

## 2.0 EPA METHOD 8260B ANALYSIS

Amec Foster Wheeler contacted TestAmerica of Irvine, California to inquire if the full suite of EPA 8260B VOCs could be reported for the original water samples. TestAmerica indicated that the complete suite of EPA 8260B results could be reported for the five water samples (W039, W042, W043, W044, and W045) using the existing gas chromatograph mass spectrometer (GC/MS) data obtained from the original analytical testing. TestAmerica did not re-analyze any of these water samples to obtain the full suite of EPA 8260B results.

TestAmerica originally reported results from the 5 water samples for benzene, toluene, ethylbenzene, total xylenes, and acetone (as requested in the original chain of custody) after completing an analysis using a gas chromatograph mass spectrometer (GC/MS) calibrated to the full suite of EPA Method 8260B constituents. TestAmerica also indicated that their internal laboratory Quality Assurance and Quality Control (QA/QC) procedures for the 8260B analysis of these samples passed laboratory control limits. TestAmerica was able to report the full EPA 8260B VOC results using the GC/MS sample data because the GC/MS was calibrated to the

full list of EPA 8260B constituents and there were no QA/QC issues that affected the calibration.

## 3.0 ANALYTICAL RESULTS FOR EPA METHOD 8260B

The analytical results for VOCs analyzed using EPA Method 8260B are summarized in Table 1. Constituents not listed in the table were not detected. Although Methylene Chloride was also not detected in any samples, it was added to Table 1 for the convenience of the RWQCB because that result was previously and separately requested. The complete laboratory report is attached in Appendix A.

# TABLE 1

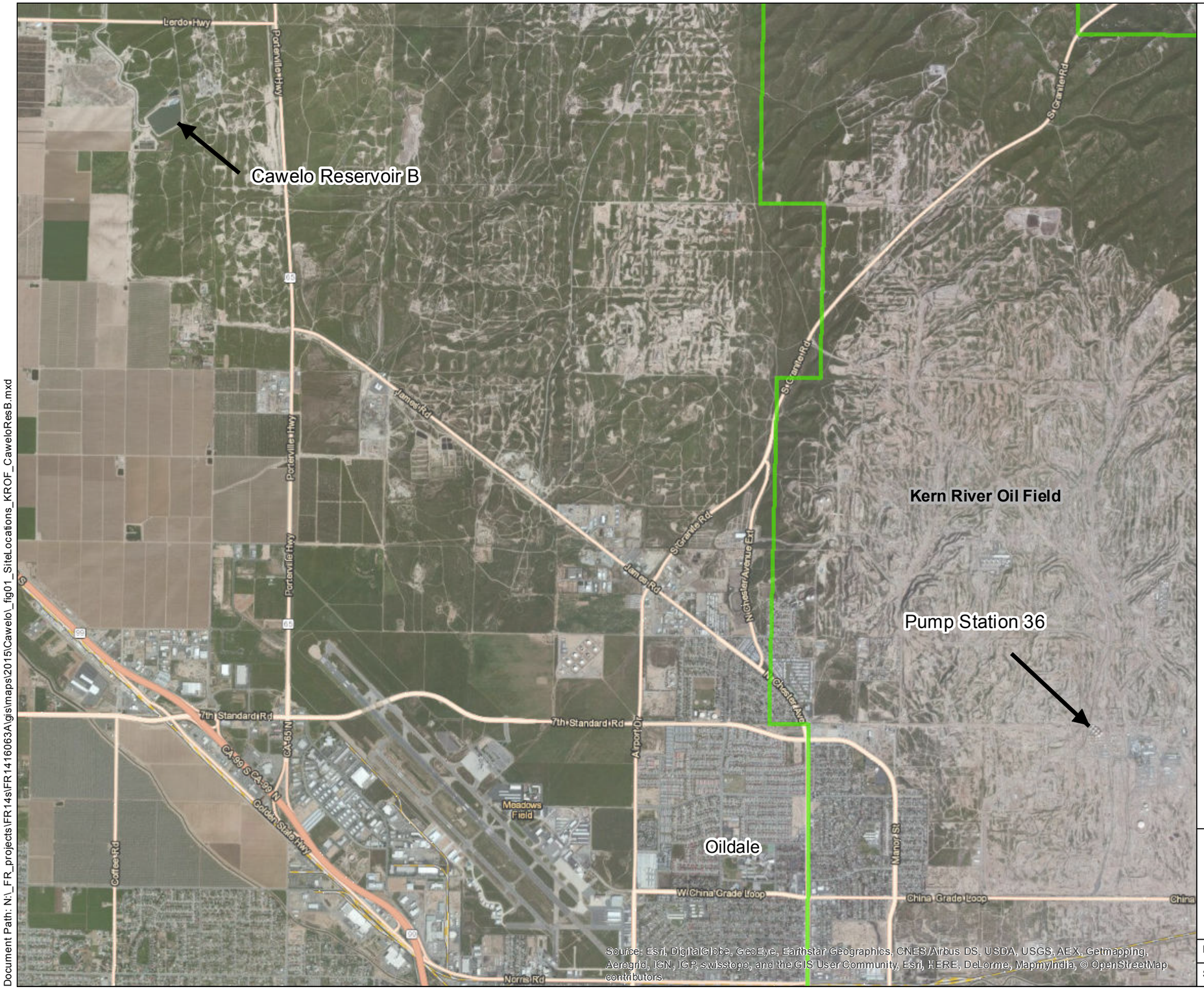
## ANALYTICAL RESULTS SUMMARY - EPA 8260B VOLATILE ORGANIC COMPOUNDS

Cawelo Water District Ponds
Kern River Oil Field, Kern County, California

| | | | | VOCs[1] (ug/L) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Well/Sample ID** | **Lease Name** | **Sample ID** | **Date** | **Acetone** | **Benzene** | **2-Butanone (MEK)** | **Ethyl-benzene** | **Methylene Chloride** | **m,p-Xylene** | **Naphthalene** | **n-Propylbenzene** | **o-Xylene** | **Toluene** | **1,2,4-Trimethyl-benzene** | **1,3,5-Trimethyl-benzene** | **Total Xylenes** |
| Plant 36 | Cawelo | W039 | 04/21/15 | 31 | 0.47 J | 12 | 0.71 | ND | 2.6 | ND | 0.37 J | 1.3 | 0.67 | 1.7 | 0.44 J | 3.9 |
| Polish Pond | Cawelo | W042 | 04/22/15 | 86 | 0.33 J | ND | 0.39 J | ND | 1.3 | ND | ND | 0.74 | 0.49 J | 0.68 | ND | 2.0 |
| Polish Pond | Cawelo | W043[2] | 04/22/15 | 100 | 0.31 J | 7.8 | 0.38 J | ND | 1.2 | 0.41 J | ND | 0.59 | 0.47 J | 0.56 | ND | 1.8 |
| Reservoir B | Cawelo | W044 | 04/22/15 | 150 | ND | 7.2 | 0.25 J | ND | 0.75 J | ND | ND | 0.43 J | 0.39 J | 0.40 J | ND | 1.2 |
| Reservoir B Outflow | Cawelo | W045 | 04/22/15 | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**Notes:**
1. VOCs analyzed using EPA Method 8260B.
2. Duplicate sample of W042.

**Abbreviations:**
ND = less than the RL
EPA = U.S. Environmental Protection Agency
J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
MDL = method detection limit
RL = reporting limit
ug/L = micrograms per liter
VOCs = volatile organic compounds
(MEK) = Methyl Ethyl Ketone




Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors

## Explanation

Oil field administrative boundary

N

APPROXIMATE SCALE IN MILES

0 0.5 1

0 0.75 1.5

APPROXIMATE SCALE IN KILOMETERS

SITE LOCATION MAP OF
CAWELO RESERVOIR B AND
CHEVRON PUMP STATION 36,
Kern River Oil Field and
Cawelo Water District Ponds
Kern County, California

amec foster wheeler

| | | |
|---|---|---|
| Date: 6/9/2015 | Project No.: FR1416063A | Figure |
| Submitted By: BAL | Drawn By: JFE | 1 |

Document Path: N:_FR_projects\FR14s\FR1416063A\gis\maps\2015\Cawelo_fig01_SiteLocations_KROF_CaweloResB.mxd

## Explanation

W042 — Sample location and sample ID

Note:
Inset shows the sample location from the Pump Station 36 discharge line going to Cawelo Reservoir B

N

APPROXIMATE SCALE IN FEET
0 100 200
0 25 50
APPROXIMATE SCALE IN METERS

SAMPLE LOCATION MAP OF
CAWELO RESERVOIR B
Cawelo Water District Ponds
Kern County, California

amec foster wheeler

| | | |
|---|---|---|
| Date: 6/25/2015 | Project No.: FR1416063A | Figure 2 |
| Submitted By: JFE | Drawn By: JFE | |

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# APPENDIX A

Laboratory Analytical Reports

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: 440-107774-1
Client Project/Site: Chevron Cawelo
Revision: 3

For:
AMEC Foster Wheeler E & I, Inc
1281 East Alluvial Avenue
Suite 101
Fresno, California 93720

Attn: Mr. Brad Loewen

*Authorized for release by:*
*6/23/2015 12:59:06 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: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107774-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 440-107774-1 | W039 | Water | 04/21/15 16:15 | 04/22/15 09:35 |

## Job ID: 440-107774-1

### Laboratory: TestAmerica Irvine

**Narrative**

**Job Narrative**
**440-107774-1**

**Comments**
Level 4 raw data package was requested on 6/5/15 for EPA methods 8260 and 8270.

This report was revised on 5/6/15 to correct the project name as requested.

This report was revised on 6/19/15 to add methylene chloride to the 8260 analytical.

This report was revised on 6/23/15 to include full 8260 VOC list as requested on 6/22/15.

**Receipt**
The sample was received on 4/22/2015 9:35 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5º C.

**GC/MS VOA**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**GC/MS Semi VOA**
Method(s) 8270C SIM: The internal standard response was below the 50% minimum QC limit for the following sample: W039 (440-107774-1). The chromatography showed some matrix interference that could have adversely affected the recovery of the affected internal standard. All affected target analytes were flagged with an asterisk (*). If the matrix effect is isolated to the internal standards, then the affect on the associated target analyte results are potentially biased high. The affected analytes were ND in sample W039 (440-107774-1).

Method(s) 8270C SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 251224. The LCS was performed in duplicate to provide precision data for the batch.

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

**HPLC/IC**
Method(s) 300.0: Due to the relatively high concentration of sulfate in the batch QC source sample, the matrix spike / matrix spike duplicate (MS/MSD) for batch 250449 could not be evaluated for accuracy and precision and was not reported. The associated laboratory control sample (LCS) met acceptance criteria.

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

**GC Semi VOA**
Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 250669.The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

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

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

**General Chemistry**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Organic Prep**
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: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107774-1

## Client Sample ID: W039

**Date Collected: 04/21/15 16:15**
**Date Received: 04/22/15 09:35**

## Lab Sample ID: 440-107774-1

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acetone** | **31** | | 10 | 4.5 | ug/L | | | 04/27/15 09:51 | 1 |
| **Benzene** | **0.47** | **J** | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Bromobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Bromochloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Bromoform | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 09:51 | 1 |
| Bromomethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| **2-Butanone (MEK)** | **12** | | 5.0 | 2.5 | ug/L | | | 04/27/15 09:51 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Chloroethane | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 09:51 | 1 |
| Chloroform | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Chloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.50 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Dibromomethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,3-Dichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Ethanol | ND | | 150 | 75 | ug/L | | | 04/27/15 09:51 | 1 |
| **Ethylbenzene** | **0.71** | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.5 | ug/L | | | 04/27/15 09:51 | 1 |
| Isopropylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Isopropyl Ether (DIPE) | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Methylene Chloride | ND | | 2.0 | 0.88 | ug/L | | | 04/27/15 09:51 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.5 | ug/L | | | 04/27/15 09:51 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| **m,p-Xylene** | **2.6** | | 1.0 | 0.50 | ug/L | | | 04/27/15 09:51 | 1 |
| Naphthalene | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 09:51 | 1 |
| n-Butylbenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 09:51 | 1 |
| **n-Propylbenzene** | **0.37** | **J** | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| **o-Xylene** | **1.3** | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| p-Isopropyltoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| sec-Butylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Styrene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |

# Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107774-1

## Client Sample ID: W039

**Date Collected: 04/21/15 16:15**
**Date Received: 04/22/15 09:35**

## Lab Sample ID: 440-107774-1

**Matrix: Water**

### 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 | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 10 | 5.0 | ug/L | | | 04/27/15 09:51 | 1 |
| tert-Butylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| **Toluene** | **0.67** | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Trichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Trichlorofluoromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| **1,2,4-Trimethylbenzene** | **1.7** | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| **1,3,5-Trimethylbenzene** | **0.44** | **J** | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 09:51 | 1 |
| **Xylenes, Total** | **3.9** | | 1.0 | 0.50 | ug/L | | | 04/27/15 09:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* | | *04/27/15 09:51* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *76 - 132* | | *04/27/15 09:51* | *1* |
| *Toluene-d8 (Surr)* | *111* | | *80 - 128* | | *04/27/15 09:51* | *1* |

### Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **0.63** | | 0.20 | 0.098 | ug/L | | 04/26/15 13:54 | 04/27/15 23:46 | 1 |
| Acenaphthylene | ND | | 0.20 | 0.098 | ug/L | | 04/26/15 13:54 | 04/27/15 23:46 | 1 |
| Anthracene | ND | | 0.20 | 0.098 | ug/L | | 04/26/15 13:54 | 04/27/15 23:46 | 1 |
| Benzo[a]anthracene | ND | | 0.20 | 0.098 | ug/L | | 04/26/15 13:54 | 04/27/15 23:46 | 1 |
| Benzo[a]pyrene | ND | * | 0.20 | 0.098 | ug/L | | 04/26/15 13:54 | 04/27/15 23:46 | 1 |
| Benzo[b]fluoranthene | ND | * | 0.20 | 0.098 | ug/L | | 04/26/15 13:54 | 04/27/15 23:46 | 1 |
| Benzo[g,h,i]perylene | ND | * | 0.20 | 0.098 | ug/L | | 04/26/15 13:54 | 04/27/15 23:46 | 1 |
| Benzo[k]fluoranthene | ND | * | 0.20 | 0.098 | ug/L | | 04/26/15 13:54 | 04/27/15 23:46 | 1 |
| Chrysene | ND | | 0.20 | 0.098 | ug/L | | 04/26/15 13:54 | 04/27/15 23:46 | 1 |
| Dibenz(a,h)anthracene | ND | * | 0.20 | 0.098 | ug/L | | 04/26/15 13:54 | 04/27/15 23:46 | 1 |
| Fluoranthene | ND | | 0.20 | 0.098 | ug/L | | 04/26/15 13:54 | 04/27/15 23:46 | 1 |
| **Fluorene** | **0.37** | | 0.20 | 0.098 | ug/L | | 04/26/15 13:54 | 04/27/15 23:46 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | * | 0.20 | 0.098 | ug/L | | 04/26/15 13:54 | 04/27/15 23:46 | 1 |
| **Naphthalene** | **0.11** | **J** | 0.20 | 0.098 | ug/L | | 04/26/15 13:54 | 04/27/15 23:46 | 1 |
| **Phenanthrene** | **0.38** | | 0.20 | 0.098 | ug/L | | 04/26/15 13:54 | 04/27/15 23:46 | 1 |
| Pyrene | ND | | 0.20 | 0.098 | ug/L | | 04/26/15 13:54 | 04/27/15 23:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *69* | | *31 - 120* | *04/26/15 13:54* | *04/27/15 23:46* | *1* |
| *Nitrobenzene-d5* | *59* | | *25 - 133* | *04/26/15 13:54* | *04/27/15 23:46* | *1* |
| *Terphenyl-d14* | *100* | | *10 - 120* | *04/26/15 13:54* | *04/27/15 23:46* | *1* |

# Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107774-1

## Client Sample ID: W039

**Date Collected: 04/21/15 16:15**
**Date Received: 04/22/15 09:35**

## Lab Sample ID: 440-107774-1

**Matrix: Water**

### Method: 8015B - Diesel Range Organics (DRO) (GC) Low Level

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C29-C40 | 0.12 | | 0.048 | 0.024 | mg/L | | 04/23/15 08:00 | 04/24/15 10:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *64* | | *45 - 120* | *04/23/15 08:00* | *04/24/15 10:52* | *1* |

### Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromide | 0.91 | | 0.50 | 0.25 | mg/L | | | 04/22/15 18:39 | 1 |
| Nitrate as NO3 | ND | | 0.50 | 0.25 | mg/L | | | 04/22/15 18:39 | 1 |
| Chloride | 100 | | 5.0 | 2.5 | mg/L | | | 04/22/15 18:57 | 10 |
| Fluoride | 0.38 | J | 0.50 | 0.25 | mg/L | | | 04/22/15 18:39 | 1 |
| Sulfate | 2.5 | | 0.50 | 0.25 | mg/L | | | 04/22/15 18:39 | 1 |

### Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Boron | 0.78 | | 0.050 | 0.010 | mg/L | | 04/27/15 13:41 | 04/28/15 10:44 | 1 |
| Calcium | 28 | | 0.10 | 0.050 | mg/L | | 04/27/15 13:41 | 04/28/15 10:44 | 1 |
| Iron | 2.5 | | 0.040 | 0.010 | mg/L | | 04/27/15 13:41 | 04/28/15 10:44 | 1 |
| Potassium | 5.7 | | 0.50 | 0.25 | mg/L | | 04/27/15 13:41 | 04/28/15 10:44 | 1 |
| Lithium | 0.041 | J | 0.50 | 0.025 | mg/L | | 04/27/15 13:41 | 04/28/15 10:44 | 1 |
| Magnesium | 5.2 | | 0.020 | 0.010 | mg/L | | 04/27/15 13:41 | 04/28/15 10:44 | 1 |
| Manganese | 0.089 | | 0.020 | 0.010 | mg/L | | 04/27/15 13:41 | 04/28/15 10:44 | 1 |
| Sodium | 130 | | 0.50 | 0.25 | mg/L | | 04/27/15 13:41 | 04/28/15 10:44 | 1 |
| Strontium | 0.42 | | 0.020 | 0.010 | mg/L | | 04/27/15 13:41 | 04/28/15 10:44 | 1 |

### Method: 200.8 - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Uranium | ND | | 1.0 | 0.50 | ug/L | | 04/27/15 14:08 | 04/28/15 12:40 | 1 |

### Method: 6010B - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 0.010 | 0.0060 | mg/L | | 04/27/15 11:40 | 04/28/15 12:56 | 1 |
| Arsenic | 0.011 | | 0.010 | 0.0050 | mg/L | | 04/27/15 11:40 | 04/28/15 12:56 | 1 |
| Barium | 0.085 | | 0.010 | 0.0050 | mg/L | | 04/27/15 11:40 | 04/28/15 12:56 | 1 |
| Beryllium | ND | | 0.0020 | 0.0010 | mg/L | | 04/27/15 11:40 | 04/28/15 12:56 | 1 |
| Cadmium | ND | | 0.0050 | 0.0020 | mg/L | | 04/27/15 11:40 | 04/28/15 12:56 | 1 |
| Chromium | ND | | 0.0050 | 0.0025 | mg/L | | 04/27/15 11:40 | 04/28/15 12:56 | 1 |
| Cobalt | ND | | 0.010 | 0.0025 | mg/L | | 04/27/15 11:40 | 04/28/15 12:56 | 1 |
| Copper | ND | | 0.010 | 0.0050 | mg/L | | 04/27/15 11:40 | 04/28/15 12:56 | 1 |
| Lead | ND | | 0.0050 | 0.0025 | mg/L | | 04/27/15 11:40 | 04/28/15 12:56 | 1 |
| Molybdenum | ND | | 0.020 | 0.010 | mg/L | | 04/27/15 11:40 | 04/28/15 12:56 | 1 |
| Nickel | ND | | 0.010 | 0.0050 | mg/L | | 04/27/15 11:40 | 04/28/15 12:56 | 1 |
| Selenium | ND | | 0.010 | 0.0061 | mg/L | | 04/27/15 11:40 | 04/28/15 12:56 | 1 |
| Silver | ND | | 0.010 | 0.0050 | mg/L | | 04/27/15 11:40 | 04/28/15 12:56 | 1 |
| Thallium | 0.0096 | J | 0.010 | 0.0050 | mg/L | | 04/27/15 11:40 | 04/28/15 12:56 | 1 |
| Vanadium | ND | | 0.010 | 0.0050 | mg/L | | 04/27/15 11:40 | 04/28/15 12:56 | 1 |
| Zinc | ND | | 0.020 | 0.010 | mg/L | | 04/27/15 11:40 | 04/28/15 12:56 | 1 |

### Method: 6010B - Metals (ICP) - STLC Citrate

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 0.15 | J | 0.20 | 0.12 | mg/L | | | 04/28/15 11:15 | 20 |

# Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107774-1

## Client Sample ID: W039

**Date Collected: 04/21/15 16:15**
**Date Received: 04/22/15 09:35**

## Lab Sample ID: 440-107774-1

**Matrix: Water**

### Method: 6010B - Metals (ICP) - STLC Citrate (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:15 | 20 |
| **Barium** | **0.10** | **J** | 0.20 | 0.10 | mg/L | | | 04/28/15 11:15 | 20 |
| Beryllium | ND | | 0.040 | 0.020 | mg/L | | | 04/28/15 11:15 | 20 |
| Cadmium | ND | | 0.10 | 0.040 | mg/L | | | 04/28/15 11:15 | 20 |
| Chromium | ND | | 0.10 | 0.050 | mg/L | | | 04/28/15 11:15 | 20 |
| Cobalt | ND | | 0.20 | 0.050 | mg/L | | | 04/28/15 11:15 | 20 |
| Copper | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:15 | 20 |
| Lead | ND | | 0.10 | 0.050 | mg/L | | | 04/28/15 11:15 | 20 |
| **Molybdenum** | **0.35** | **J** | 0.40 | 0.20 | mg/L | | | 04/28/15 11:15 | 20 |
| Nickel | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:15 | 20 |
| **Selenium** | **0.16** | **J** | 0.20 | 0.12 | mg/L | | | 04/28/15 11:15 | 20 |
| Silver | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:15 | 20 |
| Thallium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:15 | 20 |
| Vanadium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:15 | 20 |
| Zinc | ND | | 0.40 | 0.20 | mg/L | | | 04/28/15 11:15 | 20 |

### Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.00010 | mg/L | | 04/23/15 20:00 | 04/25/15 01:26 | 1 |

### Method: 7470A - Mercury (CVAA) - STLC Citrate

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0020 | 0.0010 | mg/L | | 04/27/15 17:39 | 04/28/15 17:08 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **230** | | 4.0 | 4.0 | mg/L | | | 04/23/15 06:34 | 1 |
| **Bicarbonate Alkalinity as CaCO3** | **230** | | 4.0 | 4.0 | mg/L | | | 04/23/15 06:34 | 1 |
| Carbonate Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/23/15 06:34 | 1 |
| Hydroxide Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/23/15 06:34 | 1 |
| **Total Dissolved Solids** | **500** | | 10 | 5.0 | mg/L | | | 04/27/15 09:24 | 1 |

# Method Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107774-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL IRV |
| 8270C SIM | Semivolatile Organic Compounds (GC/MS SIM) | SW846 | TAL IRV |
| 8015B | Diesel Range Organics (DRO) (GC) Low Level | SW846 | TAL IRV |
| 300.0 | Anions, Ion Chromatography | MCAWW | TAL IRV |
| 200.7 Rev 4.4 | Metals (ICP) | EPA | TAL IRV |
| 200.8 | Metals (ICP/MS) | EPA | TAL IRV |
| 6010B | Metals (ICP) | SW846 | TAL IRV |
| 7470A | Mercury (CVAA) | SW846 | TAL IRV |
| SM 2320B | Alkalinity | SM | TAL IRV |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL IRV |

**Protocol References:**

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
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: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107774-1

## Client Sample ID: W039

**Date Collected: 04/21/15 16:15**
**Date Received: 04/22/15 09:35**

## Lab Sample ID: 440-107774-1

**Matrix: Water**

| 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 | 251276 | 04/27/15 09:51 | AL | TAL IRV |
| Total/NA | Prep | 3520C | | | 1025 mL | 1 mL | 251224 | 04/26/15 13:54 | AK | TAL IRV |
| Total/NA | Analysis | 8270C SIM | | 1 | 1025 mL | 1 mL | 251421 | 04/27/15 23:46 | AI | TAL IRV |
| Total/NA | Prep | 3510C | | | 1040 mL | 1 mL | 250669 | 04/23/15 08:00 | AP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 1040 mL | 1 mL | 250930 | 04/24/15 10:52 | KW | TAL IRV |
| Total/NA | Analysis | 300.0 | | 1 | 5 mL | | 250448 | 04/22/15 18:39 | SP | TAL IRV |
| Total/NA | Analysis | 300.0 | | 1 | 5 mL | | 250449 | 04/22/15 18:39 | SP | TAL IRV |
| Total/NA | Analysis | 300.0 | | 10 | 5 mL | | 250449 | 04/22/15 18:57 | SP | TAL IRV |
| Dissolved | Prep | 200.2 | | | 25 mL | 25 mL | 251379 | 04/27/15 13:41 | APS | TAL IRV |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | 25 mL | 25 mL | 251583 | 04/28/15 10:44 | EN | TAL IRV |
| Dissolved | Prep | 200.2 | | | 25 mL | 25 mL | 251391 | 04/27/15 14:08 | APS | TAL IRV |
| Dissolved | Analysis | 200.8 | | 1 | 25 mL | 25 mL | 251614 | 04/28/15 12:40 | RC | TAL IRV |
| Dissolved | Prep | 3005A | | | 25 mL | 25 mL | 251355 | 04/27/15 11:40 | APS | TAL IRV |
| Dissolved | Analysis | 6010B | | 1 | 25 mL | 25 mL | 251643 | 04/28/15 12:56 | VS | TAL IRV |
| STLC Citrate | Leach | CA WET Citrate | | | 100 g | 100 mL | 251242 | 04/26/15 23:13 | CH | TAL IRV |
| STLC Citrate | Analysis | 6010B | | 20 | | | 251585 | 04/28/15 11:15 | VS | TAL IRV |
| Dissolved | Prep | 7470A | | | 20 mL | 20 mL | 250869 | 04/23/15 20:00 | DB | TAL IRV |
| Dissolved | Analysis | 7470A | | 1 | 20 mL | 20 mL | 251338 | 04/25/15 01:26 | DB | TAL IRV |
| STLC Citrate | Leach | CA WET Citrate | | | 100 g | 100 mL | 251242 | 04/26/15 23:13 | CH | TAL IRV |
| STLC Citrate | Prep | 7470A | | | 2 mL | 20 mL | 251449 | 04/27/15 17:39 | DB | TAL IRV |
| STLC Citrate | Analysis | 7470A | | 1 | 2 mL | 20 mL | 251694 | 04/28/15 17:08 | DB | TAL IRV |
| Total/NA | Analysis | SM 2320B | | 1 | | | 250661 | 04/23/15 06:34 | YZ | TAL IRV |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 251309 | 04/27/15 09:24 | XL | 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 440-251276/3**
**Matrix: Water**
**Analysis Batch: 251276**

**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 | | | 04/27/15 07:50 | 1 |
| Benzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Bromobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Bromochloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Bromoform | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 07:50 | 1 |
| Bromomethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.5 | ug/L | | | 04/27/15 07:50 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Chloroethane | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 07:50 | 1 |
| Chloroform | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Chloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.50 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Dibromomethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,3-Dichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Ethanol | ND | | 150 | 75 | ug/L | | | 04/27/15 07:50 | 1 |
| Ethylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.5 | ug/L | | | 04/27/15 07:50 | 1 |
| Isopropylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Isopropyl Ether (DIPE) | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Methylene Chloride | ND | | 2.0 | 0.88 | ug/L | | | 04/27/15 07:50 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.5 | ug/L | | | 04/27/15 07:50 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| m,p-Xylene | ND | | 1.0 | 0.50 | ug/L | | | 04/27/15 07:50 | 1 |
| Naphthalene | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 07:50 | 1 |
| n-Butylbenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 07:50 | 1 |
| n-Propylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| o-Xylene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| p-Isopropyltoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| sec-Butylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 440-251276/3**
**Matrix: Water**
**Analysis Batch: 251276**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Styrene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Tert-amyl-methyl ether (TAME) | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 10 | 5.0 | ug/L | | | 04/27/15 07:50 | 1 |
| tert-Butylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Toluene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Trichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Trichlorofluoromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 07:50 | 1 |
| Xylenes, Total | ND | | 1.0 | 0.50 | ug/L | | | 04/27/15 07:50 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* | | *04/27/15 07:50* | *1* |
| *Dibromofluoromethane (Surr)* | *108* | | *76 - 132* | | *04/27/15 07:50* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *80 - 128* | | *04/27/15 07:50* | *1* |

**Lab Sample ID: LCS 440-251276/4**
**Matrix: Water**
**Analysis Batch: 251276**

**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 | 25.1 | | ug/L | | 100 | 10 - 150 |
| Benzene | 25.0 | 23.6 | | ug/L | | 94 | 68 - 130 |
| Bromobenzene | 25.0 | 25.7 | | ug/L | | 103 | 70 - 130 |
| Bromochloromethane | 25.0 | 23.7 | | ug/L | | 95 | 70 - 130 |
| Bromodichloromethane | 25.0 | 24.6 | | ug/L | | 98 | 70 - 132 |
| Bromoform | 25.0 | 25.3 | | ug/L | | 101 | 60 - 148 |
| Bromomethane | 25.0 | 25.0 | | ug/L | | 100 | 64 - 139 |
| 2-Butanone (MEK) | 25.0 | 27.6 | | ug/L | | 110 | 44 - 150 |
| Carbon tetrachloride | 25.0 | 25.8 | | ug/L | | 103 | 60 - 150 |
| Chlorobenzene | 25.0 | 23.5 | | ug/L | | 94 | 70 - 130 |
| Chloroethane | 25.0 | 25.7 | | ug/L | | 103 | 64 - 135 |
| Chloroform | 25.0 | 24.4 | | ug/L | | 98 | 70 - 130 |
| Chloromethane | 25.0 | 23.6 | | ug/L | | 95 | 47 - 140 |
| 2-Chlorotoluene | 25.0 | 23.1 | | ug/L | | 93 | 70 - 130 |
| 4-Chlorotoluene | 25.0 | 23.3 | | ug/L | | 93 | 70 - 130 |
| cis-1,2-Dichloroethene | 25.0 | 25.6 | | ug/L | | 102 | 70 - 133 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 440-251276/4**
**Matrix: Water**
**Analysis Batch: 251276**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 25.0 | 25.2 | | ug/L | | 101 | 70 - 133 |
| Dibromochloromethane | 25.0 | 25.4 | | ug/L | | 101 | 69 - 145 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 21.1 | | ug/L | | 84 | 52 - 140 |
| 1,2-Dibromoethane (EDB) | 25.0 | 25.7 | | ug/L | | 103 | 70 - 130 |
| Dibromomethane | 25.0 | 25.8 | | ug/L | | 103 | 70 - 130 |
| 1,3-Dichlorobenzene | 25.0 | 24.0 | | ug/L | | 96 | 70 - 130 |
| 1,2-Dichlorobenzene | 25.0 | 24.5 | | ug/L | | 98 | 70 - 130 |
| 1,4-Dichlorobenzene | 25.0 | 24.7 | | ug/L | | 99 | 70 - 130 |
| Dichlorodifluoromethane | 25.0 | 23.3 | | ug/L | | 93 | 29 - 150 |
| 1,1-Dichloroethane | 25.0 | 24.1 | | ug/L | | 96 | 64 - 130 |
| 1,2-Dichloroethane | 25.0 | 24.6 | | ug/L | | 99 | 57 - 138 |
| 1,1-Dichloroethene | 25.0 | 25.7 | | ug/L | | 103 | 70 - 130 |
| 1,2-Dichloropropane | 25.0 | 25.3 | | ug/L | | 101 | 67 - 130 |
| 2,2-Dichloropropane | 25.0 | 23.0 | | ug/L | | 92 | 68 - 141 |
| 1,3-Dichloropropane | 25.0 | 22.8 | | ug/L | | 91 | 70 - 130 |
| 1,1-Dichloropropene | 25.0 | 26.9 | | ug/L | | 107 | 70 - 130 |
| Ethanol | 1250 | 1150 | | ug/L | | 92 | 50 - 149 |
| Ethylbenzene | 25.0 | 22.6 | | ug/L | | 90 | 70 - 130 |
| Ethyl-t-butyl ether (ETBE) | 25.0 | 26.5 | | ug/L | | 106 | 60 - 136 |
| 2-Hexanone | 25.0 | 26.6 | | ug/L | | 107 | 10 - 150 |
| Isopropylbenzene | 25.0 | 23.5 | | ug/L | | 94 | 70 - 136 |
| Isopropyl Ether (DIPE) | 25.0 | 24.6 | | ug/L | | 98 | 58 - 139 |
| Methylene Chloride | 25.0 | 21.8 | | ug/L | | 87 | 52 - 130 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 27.7 | | ug/L | | 111 | 59 - 149 |
| Methyl-t-Butyl Ether (MTBE) | 25.0 | 25.2 | | ug/L | | 101 | 63 - 131 |
| m,p-Xylene | 25.0 | 24.4 | | ug/L | | 98 | 70 - 130 |
| Naphthalene | 25.0 | 20.1 | | ug/L | | 80 | 60 - 140 |
| n-Butylbenzene | 25.0 | 23.1 | | ug/L | | 92 | 65 - 150 |
| n-Propylbenzene | 25.0 | 22.9 | | ug/L | | 91 | 67 - 139 |
| o-Xylene | 25.0 | 23.6 | | ug/L | | 95 | 70 - 130 |
| p-Isopropyltoluene | 25.0 | 23.7 | | ug/L | | 95 | 70 - 132 |
| sec-Butylbenzene | 25.0 | 22.9 | | ug/L | | 92 | 70 - 138 |
| Styrene | 25.0 | 23.7 | | ug/L | | 95 | 70 - 134 |
| Tert-amyl-methyl ether (TAME) | 25.0 | 26.5 | | ug/L | | 106 | 57 - 139 |
| tert-Butyl alcohol (TBA) | 250 | 259 | | ug/L | | 104 | 70 - 130 |
| tert-Butylbenzene | 25.0 | 23.3 | | ug/L | | 93 | 70 - 130 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 23.6 | | ug/L | | 95 | 63 - 130 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 25.0 | | ug/L | | 100 | 60 - 141 |
| Tetrachloroethene | 25.0 | 25.0 | | ug/L | | 100 | 70 - 130 |
| Toluene | 25.0 | 21.6 | | ug/L | | 87 | 70 - 130 |
| trans-1,2-Dichloroethene | 25.0 | 25.8 | | ug/L | | 103 | 70 - 130 |
| trans-1,3-Dichloropropene | 25.0 | 25.9 | | ug/L | | 103 | 70 - 132 |
| 1,2,4-Trichlorobenzene | 25.0 | 24.1 | | ug/L | | 97 | 60 - 140 |
| 1,2,3-Trichlorobenzene | 25.0 | 22.2 | | ug/L | | 89 | 60 - 140 |
| 1,1,1-Trichloroethane | 25.0 | 24.9 | | ug/L | | 100 | 70 - 130 |
| 1,1,2-Trichloroethane | 25.0 | 24.8 | | ug/L | | 99 | 70 - 130 |
| Trichloroethene | 25.0 | 25.5 | | ug/L | | 102 | 70 - 130 |
| Trichlorofluoromethane | 25.0 | 26.1 | | ug/L | | 104 | 60 - 150 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 440-251276/4**
**Matrix: Water**
**Analysis Batch: 251276**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | 25.0 | 24.8 | | ug/L | | 99 | 63 - 130 |
| 1,2,4-Trimethylbenzene | 25.0 | 23.1 | | ug/L | | 92 | 70 - 135 |
| 1,3,5-Trimethylbenzene | 25.0 | 22.8 | | ug/L | | 91 | 70 - 136 |
| Vinyl chloride | 25.0 | 24.6 | | ug/L | | 98 | 59 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *104* | | *76 - 132* |
| *Toluene-d8 (Surr)* | *105* | | *80 - 128* |

**Lab Sample ID: 440-107825-A-3 MS**
**Matrix: Water**
**Analysis Batch: 251276**

**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 | 24.4 | | ug/L | | 97 | 10 - 150 |
| Benzene | ND | | 25.0 | 23.0 | | ug/L | | 92 | 66 - 130 |
| Bromobenzene | ND | | 25.0 | 24.8 | | ug/L | | 99 | 70 - 130 |
| Bromochloromethane | ND | | 25.0 | 24.1 | | ug/L | | 96 | 70 - 130 |
| Bromodichloromethane | ND | | 25.0 | 24.8 | | ug/L | | 99 | 70 - 138 |
| Bromoform | ND | | 25.0 | 25.4 | | ug/L | | 102 | 59 - 150 |
| Bromomethane | ND | | 25.0 | 24.3 | | ug/L | | 97 | 62 - 131 |
| 2-Butanone (MEK) | ND | | 25.0 | 27.4 | | ug/L | | 109 | 48 - 140 |
| Carbon tetrachloride | ND | | 25.0 | 26.6 | | ug/L | | 106 | 60 - 150 |
| Chlorobenzene | ND | | 25.0 | 22.9 | | ug/L | | 91 | 70 - 130 |
| Chloroethane | ND | | 25.0 | 24.2 | | ug/L | | 97 | 68 - 130 |
| Chloroform | ND | | 25.0 | 24.5 | | ug/L | | 98 | 70 - 130 |
| Chloromethane | ND | | 25.0 | 22.5 | | ug/L | | 90 | 39 - 144 |
| 2-Chlorotoluene | ND | | 25.0 | 23.2 | | ug/L | | 93 | 70 - 130 |
| 4-Chlorotoluene | ND | | 25.0 | 22.5 | | ug/L | | 90 | 70 - 130 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 25.8 | | ug/L | | 103 | 70 - 130 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 24.5 | | ug/L | | 98 | 70 - 133 |
| Dibromochloromethane | ND | | 25.0 | 25.0 | | ug/L | | 100 | 70 - 148 |
| 1,2-Dibromo-3-Chloropropane | ND | | 25.0 | 22.2 | | ug/L | | 89 | 48 - 140 |
| 1,2-Dibromoethane (EDB) | ND | | 25.0 | 25.0 | | ug/L | | 100 | 70 - 131 |
| Dibromomethane | ND | | 25.0 | 26.3 | | ug/L | | 105 | 70 - 130 |
| 1,3-Dichlorobenzene | ND | | 25.0 | 24.0 | | ug/L | | 96 | 70 - 130 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 24.3 | | ug/L | | 97 | 70 - 130 |
| 1,4-Dichlorobenzene | ND | | 25.0 | 24.2 | | ug/L | | 97 | 70 - 130 |
| Dichlorodifluoromethane | ND | | 25.0 | 22.6 | | ug/L | | 90 | 25 - 142 |
| 1,1-Dichloroethane | ND | | 25.0 | 24.1 | | ug/L | | 97 | 65 - 130 |
| 1,2-Dichloroethane | ND | | 25.0 | 24.6 | | ug/L | | 98 | 56 - 146 |
| 1,1-Dichloroethene | ND | | 25.0 | 25.0 | | ug/L | | 100 | 70 - 130 |
| 1,2-Dichloropropane | ND | | 25.0 | 24.6 | | ug/L | | 98 | 69 - 130 |
| 2,2-Dichloropropane | ND | | 25.0 | 25.0 | | ug/L | | 100 | 69 - 138 |
| 1,3-Dichloropropane | ND | | 25.0 | 22.3 | | ug/L | | 89 | 70 - 130 |
| 1,1-Dichloropropene | ND | | 25.0 | 27.1 | | ug/L | | 108 | 64 - 130 |
| Ethanol | ND | | 1250 | 1170 | | ug/L | | 94 | 54 - 150 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-107825-A-3 MS**
**Matrix: Water**
**Analysis Batch: 251276**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | ND | | 25.0 | 22.2 | | ug/L | | 89 | 70 - 130 |
| Ethyl-t-butyl ether (ETBE) | ND | | 25.0 | 26.5 | | ug/L | | 106 | 70 - 130 |
| 2-Hexanone | ND | | 25.0 | 27.0 | | ug/L | | 108 | 10 - 150 |
| Isopropylbenzene | ND | | 25.0 | 23.7 | | ug/L | | 95 | 70 - 132 |
| Isopropyl Ether (DIPE) | ND | | 25.0 | 24.5 | | ug/L | | 98 | 64 - 138 |
| Methylene Chloride | ND | | 25.0 | 20.9 | | ug/L | | 84 | 52 - 130 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25.0 | 27.9 | | ug/L | | 111 | 52 - 150 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 25.0 | 25.8 | | ug/L | | 103 | 70 - 130 |
| m,p-Xylene | ND | | 25.0 | 24.3 | | ug/L | | 97 | 70 - 133 |
| Naphthalene | ND | | 25.0 | 20.7 | | ug/L | | 83 | 60 - 140 |
| n-Butylbenzene | ND | | 25.0 | 23.3 | | ug/L | | 93 | 61 - 149 |
| n-Propylbenzene | ND | | 25.0 | 22.6 | | ug/L | | 91 | 66 - 135 |
| o-Xylene | ND | | 25.0 | 23.2 | | ug/L | | 93 | 70 - 133 |
| p-Isopropyltoluene | ND | | 25.0 | 23.6 | | ug/L | | 95 | 70 - 130 |
| sec-Butylbenzene | ND | | 25.0 | 22.9 | | ug/L | | 92 | 67 - 134 |
| Styrene | ND | F1 F2 | 25.0 | 10.8 | | ug/L | | 43 | 29 - 150 |
| Tert-amyl-methyl ether (TAME) | ND | | 25.0 | 26.7 | | ug/L | | 107 | 68 - 133 |
| tert-Butyl alcohol (TBA) | ND | | 250 | 257 | | ug/L | | 103 | 70 - 130 |
| tert-Butylbenzene | ND | | 25.0 | 23.0 | | ug/L | | 92 | 70 - 130 |
| 1,1,2,2-Tetrachloroethane | ND | | 25.0 | 23.2 | | ug/L | | 93 | 63 - 130 |
| 1,1,1,2-Tetrachloroethane | ND | | 25.0 | 24.6 | | ug/L | | 99 | 60 - 149 |
| Tetrachloroethene | ND | | 25.0 | 25.0 | | ug/L | | 100 | 70 - 137 |
| Toluene | ND | | 25.0 | 22.0 | | ug/L | | 88 | 70 - 130 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 26.1 | | ug/L | | 105 | 70 - 130 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 25.8 | | ug/L | | 103 | 70 - 138 |
| 1,2,4-Trichlorobenzene | ND | | 25.0 | 24.0 | | ug/L | | 96 | 60 - 140 |
| 1,2,3-Trichlorobenzene | ND | | 25.0 | 22.1 | | ug/L | | 88 | 60 - 140 |
| 1,1,1-Trichloroethane | ND | | 25.0 | 25.6 | | ug/L | | 102 | 70 - 130 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 24.4 | | ug/L | | 97 | 70 - 130 |
| Trichloroethene | ND | | 25.0 | 25.6 | | ug/L | | 102 | 70 - 130 |
| Trichlorofluoromethane | ND | | 25.0 | 27.5 | | ug/L | | 110 | 60 - 150 |
| 1,2,3-Trichloropropane | ND | | 25.0 | 24.1 | | ug/L | | 96 | 60 - 130 |
| 1,2,4-Trimethylbenzene | ND | | 25.0 | 22.7 | | ug/L | | 91 | 70 - 130 |
| 1,3,5-Trimethylbenzene | ND | | 25.0 | 22.7 | | ug/L | | 91 | 70 - 130 |
| Vinyl chloride | ND | | 25.0 | 23.4 | | ug/L | | 94 | 50 - 137 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *111* | | *76 - 132* |
| *Toluene-d8 (Surr)* | *106* | | *80 - 128* |

**Lab Sample ID: 440-107825-A-3 MSD**
**Matrix: Water**
**Analysis Batch: 251276**

**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 | 21.3 | | ug/L | | 85 | 10 - 150 | 13 | 35 |
| Benzene | ND | | 25.0 | 22.0 | | ug/L | | 88 | 66 - 130 | 5 | 20 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-107825-A-3 MSD**
**Matrix: Water**
**Analysis Batch: 251276**

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | ND | | 25.0 | 23.6 | | ug/L | | 94 | 70 - 130 | 5 | 20 |
| Bromochloromethane | ND | | 25.0 | 24.4 | | ug/L | | 97 | 70 - 130 | 1 | 25 |
| Bromodichloromethane | ND | | 25.0 | 23.8 | | ug/L | | 95 | 70 - 138 | 4 | 20 |
| Bromoform | ND | | 25.0 | 24.9 | | ug/L | | 100 | 59 - 150 | 2 | 25 |
| Bromomethane | ND | | 25.0 | 23.0 | | ug/L | | 92 | 62 - 131 | 5 | 25 |
| 2-Butanone (MEK) | ND | | 25.0 | 25.7 | | ug/L | | 103 | 48 - 140 | 6 | 40 |
| Carbon tetrachloride | ND | | 25.0 | 24.4 | | ug/L | | 98 | 60 - 150 | 8 | 25 |
| Chlorobenzene | ND | | 25.0 | 22.4 | | ug/L | | 89 | 70 - 130 | 2 | 20 |
| Chloroethane | ND | | 25.0 | 22.7 | | ug/L | | 91 | 68 - 130 | 6 | 25 |
| Chloroform | ND | | 25.0 | 23.5 | | ug/L | | 94 | 70 - 130 | 4 | 20 |
| Chloromethane | ND | | 25.0 | 21.1 | | ug/L | | 84 | 39 - 144 | 6 | 25 |
| 2-Chlorotoluene | ND | | 25.0 | 21.2 | | ug/L | | 85 | 70 - 130 | 9 | 20 |
| 4-Chlorotoluene | ND | | 25.0 | 21.4 | | ug/L | | 86 | 70 - 130 | 5 | 20 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 24.0 | | ug/L | | 96 | 70 - 130 | 7 | 20 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 23.4 | | ug/L | | 94 | 70 - 133 | 5 | 20 |
| Dibromochloromethane | ND | | 25.0 | 24.2 | | ug/L | | 97 | 70 - 148 | 4 | 25 |
| 1,2-Dibromo-3-Chloropropane | ND | | 25.0 | 20.0 | | ug/L | | 80 | 48 - 140 | 10 | 30 |
| 1,2-Dibromoethane (EDB) | ND | | 25.0 | 24.5 | | ug/L | | 98 | 70 - 131 | 2 | 25 |
| Dibromomethane | ND | | 25.0 | 24.9 | | ug/L | | 100 | 70 - 130 | 5 | 25 |
| 1,3-Dichlorobenzene | ND | | 25.0 | 22.9 | | ug/L | | 92 | 70 - 130 | 5 | 20 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 23.3 | | ug/L | | 93 | 70 - 130 | 4 | 20 |
| 1,4-Dichlorobenzene | ND | | 25.0 | 22.7 | | ug/L | | 91 | 70 - 130 | 6 | 20 |
| Dichlorodifluoromethane | ND | | 25.0 | 21.5 | | ug/L | | 86 | 25 - 142 | 5 | 30 |
| 1,1-Dichloroethane | ND | | 25.0 | 22.7 | | ug/L | | 91 | 65 - 130 | 6 | 20 |
| 1,2-Dichloroethane | ND | | 25.0 | 24.0 | | ug/L | | 96 | 56 - 146 | 3 | 20 |
| 1,1-Dichloroethene | ND | | 25.0 | 23.6 | | ug/L | | 94 | 70 - 130 | 6 | 20 |
| 1,2-Dichloropropane | ND | | 25.0 | 23.6 | | ug/L | | 94 | 69 - 130 | 4 | 20 |
| 2,2-Dichloropropane | ND | | 25.0 | 23.4 | | ug/L | | 94 | 69 - 138 | 6 | 25 |
| 1,3-Dichloropropane | ND | | 25.0 | 21.1 | | ug/L | | 84 | 70 - 130 | 6 | 25 |
| 1,1-Dichloropropene | ND | | 25.0 | 25.2 | | ug/L | | 101 | 64 - 130 | 7 | 20 |
| Ethanol | ND | | 1250 | 1170 | | ug/L | | 93 | 54 - 150 | 0 | 30 |
| Ethylbenzene | ND | | 25.0 | 20.9 | | ug/L | | 84 | 70 - 130 | 6 | 20 |
| Ethyl-t-butyl ether (ETBE) | ND | | 25.0 | 25.2 | | ug/L | | 101 | 70 - 130 | 5 | 25 |
| 2-Hexanone | ND | | 25.0 | 25.4 | | ug/L | | 101 | 10 - 150 | 6 | 35 |
| Isopropylbenzene | ND | | 25.0 | 22.0 | | ug/L | | 88 | 70 - 132 | 7 | 20 |
| Isopropyl Ether (DIPE) | ND | | 25.0 | 23.4 | | ug/L | | 93 | 64 - 138 | 5 | 25 |
| Methylene Chloride | ND | | 25.0 | 19.8 | | ug/L | | 79 | 52 - 130 | 6 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25.0 | 26.0 | | ug/L | | 104 | 52 - 150 | 7 | 35 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 25.0 | 24.7 | | ug/L | | 99 | 70 - 130 | 4 | 25 |
| m,p-Xylene | ND | | 25.0 | 22.5 | | ug/L | | 90 | 70 - 133 | 8 | 25 |
| Naphthalene | ND | | 25.0 | 19.6 | | ug/L | | 78 | 60 - 140 | 6 | 30 |
| n-Butylbenzene | ND | | 25.0 | 21.7 | | ug/L | | 87 | 61 - 149 | 7 | 20 |
| n-Propylbenzene | ND | | 25.0 | 20.8 | | ug/L | | 83 | 66 - 135 | 9 | 20 |
| o-Xylene | ND | | 25.0 | 22.3 | | ug/L | | 89 | 70 - 133 | 4 | 20 |
| p-Isopropyltoluene | ND | | 25.0 | 22.4 | | ug/L | | 90 | 70 - 130 | 5 | 20 |
| sec-Butylbenzene | ND | | 25.0 | 21.1 | | ug/L | | 84 | 67 - 134 | 8 | 20 |
| Styrene | ND | F1 F2 | 25.0 | 6.61 | F1 F2 | ug/L | | 26 | 29 - 150 | 48 | 35 |
| Tert-amyl-methyl ether (TAME) | ND | | 25.0 | 25.7 | | ug/L | | 103 | 68 - 133 | 4 | 30 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-107825-A-3 MSD**
**Matrix: Water**
**Analysis Batch: 251276**

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| tert-Butyl alcohol (TBA) | ND | | 250 | 250 | | ug/L | | 100 | 70 - 130 | 3 | 25 |
| tert-Butylbenzene | ND | | 25.0 | 22.3 | | ug/L | | 89 | 70 - 130 | 3 | 20 |
| 1,1,2,2-Tetrachloroethane | ND | | 25.0 | 22.6 | | ug/L | | 90 | 63 - 130 | 3 | 30 |
| 1,1,1,2-Tetrachloroethane | ND | | 25.0 | 23.5 | | ug/L | | 94 | 60 - 149 | 5 | 20 |
| Tetrachloroethene | ND | | 25.0 | 23.7 | | ug/L | | 95 | 70 - 137 | 6 | 20 |
| Toluene | ND | | 25.0 | 20.1 | | ug/L | | 80 | 70 - 130 | 9 | 20 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 24.9 | | ug/L | | 100 | 70 - 130 | 5 | 20 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 24.8 | | ug/L | | 99 | 70 - 138 | 4 | 25 |
| 1,2,4-Trichlorobenzene | ND | | 25.0 | 22.3 | | ug/L | | 89 | 60 - 140 | 7 | 20 |
| 1,2,3-Trichlorobenzene | ND | | 25.0 | 20.8 | | ug/L | | 83 | 60 - 140 | 6 | 20 |
| 1,1,1-Trichloroethane | ND | | 25.0 | 24.0 | | ug/L | | 96 | 70 - 130 | 6 | 20 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 23.5 | | ug/L | | 94 | 70 - 130 | 3 | 25 |
| Trichloroethene | ND | | 25.0 | 23.8 | | ug/L | | 95 | 70 - 130 | 7 | 20 |
| Trichlorofluoromethane | ND | | 25.0 | 25.3 | | ug/L | | 101 | 60 - 150 | 8 | 25 |
| 1,2,3-Trichloropropane | ND | | 25.0 | 23.0 | | ug/L | | 92 | 60 - 130 | 5 | 30 |
| 1,2,4-Trimethylbenzene | ND | | 25.0 | 21.6 | | ug/L | | 86 | 70 - 130 | 5 | 25 |
| 1,3,5-Trimethylbenzene | ND | | 25.0 | 21.6 | | ug/L | | 86 | 70 - 130 | 5 | 20 |
| Vinyl chloride | ND | | 25.0 | 22.1 | | ug/L | | 88 | 50 - 137 | 6 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *106* | | *76 - 132* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 128* |

## Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

**Lab Sample ID: MB 440-251224/1-A**
**Matrix: Water**
**Analysis Batch: 251421**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 251224**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Acenaphthylene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Anthracene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Benzo[a]anthracene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Benzo[a]pyrene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Benzo[b]fluoranthene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Benzo[k]fluoranthene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Chrysene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Fluoranthene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Fluorene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Naphthalene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Phenanthrene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Pyrene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |

## Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

**Lab Sample ID: MB 440-251224/1-A**
**Matrix: Water**
**Analysis Batch: 251421**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 251224**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl (Surr) | 84 | | 31 - 120 | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Nitrobenzene-d5 | 81 | | 25 - 133 | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Terphenyl-d14 | 95 | | 10 - 120 | 04/26/15 13:54 | 04/27/15 16:14 | 1 |

**Lab Sample ID: LCS 440-251224/2-A**
**Matrix: Water**
**Analysis Batch: 251421**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 251224**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 1.00 | 0.751 | | ug/L | | 75 | 47 - 103 |
| Acenaphthylene | 1.00 | 0.728 | | ug/L | | 73 | 45 - 102 |
| Anthracene | 1.00 | 0.806 | | ug/L | | 81 | 47 - 111 |
| Benzo[a]anthracene | 1.00 | 0.860 | | ug/L | | 86 | 56 - 110 |
| Benzo[a]pyrene | 1.00 | 0.814 | | ug/L | | 81 | 48 - 110 |
| Benzo[b]fluoranthene | 1.00 | 0.911 | | ug/L | | 91 | 53 - 116 |
| Benzo[g,h,i]perylene | 1.00 | 1.05 | | ug/L | | 105 | 44 - 130 |
| Benzo[k]fluoranthene | 1.00 | 0.898 | | ug/L | | 90 | 51 - 127 |
| Chrysene | 1.00 | 0.889 | | ug/L | | 89 | 52 - 118 |
| Dibenz(a,h)anthracene | 1.00 | 0.967 | | ug/L | | 97 | 44 - 125 |
| Fluoranthene | 1.00 | 0.926 | | ug/L | | 93 | 51 - 116 |
| Fluorene | 1.00 | 0.787 | | ug/L | | 79 | 50 - 106 |
| Indeno[1,2,3-cd]pyrene | 1.00 | 1.00 | | ug/L | | 100 | 41 - 127 |
| Naphthalene | 1.00 | 0.667 | | ug/L | | 67 | 40 - 100 |
| Phenanthrene | 1.00 | 0.841 | | ug/L | | 84 | 49 - 110 |
| Pyrene | 1.00 | 0.861 | | ug/L | | 86 | 41 - 115 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 2-Fluorobiphenyl (Surr) | 71 | | 31 - 120 |
| Nitrobenzene-d5 | 67 | | 25 - 133 |
| Terphenyl-d14 | 82 | | 10 - 120 |

**Lab Sample ID: LCSD 440-251224/3-A**
**Matrix: Water**
**Analysis Batch: 251421**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 251224**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 1.00 | 0.719 | | ug/L | | 72 | 47 - 103 | 4 | 35 |
| Acenaphthylene | 1.00 | 0.703 | | ug/L | | 70 | 45 - 102 | 4 | 35 |
| Anthracene | 1.00 | 0.766 | | ug/L | | 77 | 47 - 111 | 5 | 35 |
| Benzo[a]anthracene | 1.00 | 0.841 | | ug/L | | 84 | 56 - 110 | 2 | 35 |
| Benzo[a]pyrene | 1.00 | 0.799 | | ug/L | | 80 | 48 - 110 | 2 | 35 |
| Benzo[b]fluoranthene | 1.00 | 0.903 | | ug/L | | 90 | 53 - 116 | 1 | 35 |
| Benzo[g,h,i]perylene | 1.00 | 1.03 | | ug/L | | 103 | 44 - 130 | 3 | 35 |
| Benzo[k]fluoranthene | 1.00 | 0.889 | | ug/L | | 89 | 51 - 127 | 1 | 35 |
| Chrysene | 1.00 | 0.865 | | ug/L | | 86 | 52 - 118 | 3 | 35 |
| Dibenz(a,h)anthracene | 1.00 | 0.950 | | ug/L | | 95 | 44 - 125 | 2 | 35 |
| Fluoranthene | 1.00 | 0.851 | | ug/L | | 85 | 51 - 116 | 8 | 35 |
| Fluorene | 1.00 | 0.762 | | ug/L | | 76 | 50 - 106 | 3 | 35 |

## Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

**Lab Sample ID: LCSD 440-251224/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 251421** — **Prep Batch: 251224**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Indeno[1,2,3-cd]pyrene | 1.00 | 0.955 | | ug/L | | 95 | 41 - 127 | 5 | 35 |
| Naphthalene | 1.00 | 0.664 | | ug/L | | 66 | 40 - 100 | 0 | 35 |
| Phenanthrene | 1.00 | 0.806 | | ug/L | | 81 | 49 - 110 | 4 | 35 |
| Pyrene | 1.00 | 0.849 | | ug/L | | 85 | 41 - 115 | 1 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *74* | | *31 - 120* |
| *Nitrobenzene-d5* | *66* | | *25 - 133* |
| *Terphenyl-d14* | *84* | | *10 - 120* |

## Method: 8015B - Diesel Range Organics (DRO) (GC) Low Level

**Lab Sample ID: MB 440-250669/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250929** — **Prep Batch: 250669**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C29-C40 | ND | | 0.050 | 0.025 | mg/L | | 04/23/15 08:00 | 04/24/15 07:33 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *78* | | *45 - 120* | *04/23/15 08:00* | *04/24/15 07:33* | *1* |

**Lab Sample ID: LCS 440-250669/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250929** — **Prep Batch: 250669**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| C10-C28 | 1.00 | 0.777 | | mg/L | | 78 | 40 - 115 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *86* | | *45 - 120* |

**Lab Sample ID: LCSD 440-250669/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250929** — **Prep Batch: 250669**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| C10-C28 | 1.00 | 0.797 | | mg/L | | 80 | 40 - 115 | 3 | 25 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *91* | | *45 - 120* |

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 440-250448/4** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250448**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate as NO3 | ND | | 0.50 | 0.25 | mg/L | | | 04/22/15 11:19 | 1 |

**Lab Sample ID: LCS 440-250448/6** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250448**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Nitrate as NO3 | 5.00 | 4.78 | | mg/L | | 96 | 90 - 110 |

**Lab Sample ID: 440-107701-H-6 MS** — **Client Sample ID: Matrix Spike**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250448**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate as NO3 | 17 | | 50.0 | 52.2 | F1 | mg/L | | 71 | 80 - 120 |

**Lab Sample ID: 440-107701-H-6 MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250448**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate as NO3 | 17 | | 50.0 | 52.4 | F1 | mg/L | | 72 | 80 - 120 | 0 | 20 |

**Lab Sample ID: MB 440-250449/4** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250449**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromide | ND | | 0.50 | 0.25 | mg/L | | | 04/22/15 11:19 | 1 |
| Chloride | ND | | 0.50 | 0.25 | mg/L | | | 04/22/15 11:19 | 1 |
| Fluoride | ND | | 0.50 | 0.25 | mg/L | | | 04/22/15 11:19 | 1 |
| Sulfate | ND | | 0.50 | 0.25 | mg/L | | | 04/22/15 11:19 | 1 |

**Lab Sample ID: LCS 440-250449/6** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250449**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Bromide | 5.00 | 4.59 | | mg/L | | 92 | 90 - 110 |
| Chloride | 5.00 | 4.86 | | mg/L | | 97 | 90 - 110 |
| Fluoride | 5.00 | 5.37 | | mg/L | | 107 | 90 - 110 |
| Sulfate | 5.00 | 4.60 | | mg/L | | 92 | 90 - 110 |

**Lab Sample ID: 440-107701-H-6 MS** — **Client Sample ID: Matrix Spike**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250449**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Bromide | ND | | 50.0 | 40.8 | | mg/L | | 82 | 80 - 120 |

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 440-107701-H-6 MS**
**Matrix: Water**
**Analysis Batch: 250449**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 240 | | 50.0 | 262 | 4 | mg/L | | 40 | 80 - 120 |
| Fluoride | ND | | 50.0 | 44.8 | | mg/L | | 90 | 80 - 120 |

**Lab Sample ID: 440-107701-H-6 MSD**
**Matrix: Water**
**Analysis Batch: 250449**

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | ND | | 50.0 | 40.9 | | mg/L | | 82 | 80 - 120 | 0 | 20 |
| Chloride | 240 | | 50.0 | 262 | 4 | mg/L | | 39 | 80 - 120 | 0 | 20 |
| Fluoride | ND | | 50.0 | 44.9 | | mg/L | | 90 | 80 - 120 | 0 | 20 |

## Method: 200.7 Rev 4.4 - Metals (ICP)

**Lab Sample ID: MB 440-251379/1-A**
**Matrix: Water**
**Analysis Batch: 251583**

**Client Sample ID: Method Blank**
**Prep Type: Total Recoverable**
**Prep Batch: 251379**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Boron | ND | | 0.050 | 0.010 | mg/L | | 04/27/15 13:41 | 04/28/15 10:40 | 1 |
| Calcium | ND | | 0.10 | 0.050 | mg/L | | 04/27/15 13:41 | 04/28/15 10:40 | 1 |
| Iron | ND | | 0.040 | 0.010 | mg/L | | 04/27/15 13:41 | 04/28/15 10:40 | 1 |
| Potassium | ND | | 0.50 | 0.25 | mg/L | | 04/27/15 13:41 | 04/28/15 10:40 | 1 |
| Lithium | ND | | 0.50 | 0.025 | mg/L | | 04/27/15 13:41 | 04/28/15 10:40 | 1 |
| Magnesium | ND | | 0.020 | 0.010 | mg/L | | 04/27/15 13:41 | 04/28/15 10:40 | 1 |
| Manganese | ND | | 0.020 | 0.010 | mg/L | | 04/27/15 13:41 | 04/28/15 10:40 | 1 |
| Sodium | ND | | 0.50 | 0.25 | mg/L | | 04/27/15 13:41 | 04/28/15 10:40 | 1 |
| Strontium | ND | | 0.020 | 0.010 | mg/L | | 04/27/15 13:41 | 04/28/15 10:40 | 1 |

**Lab Sample ID: LCS 440-251379/2-A**
**Matrix: Water**
**Analysis Batch: 251583**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 251379**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Boron | 0.500 | 0.506 | | mg/L | | 101 | 85 - 115 |
| Calcium | 2.50 | 2.47 | | mg/L | | 99 | 85 - 115 |
| Iron | 0.500 | 0.496 | | mg/L | | 99 | 85 - 115 |
| Potassium | 5.00 | 5.22 | | mg/L | | 104 | 85 - 115 |
| Lithium | 0.500 | 0.507 | | mg/L | | 101 | 85 - 115 |
| Magnesium | 2.50 | 2.49 | | mg/L | | 100 | 85 - 115 |
| Manganese | 0.500 | 0.515 | | mg/L | | 103 | 85 - 115 |
| Sodium | 5.00 | 5.15 | | mg/L | | 103 | 85 - 115 |
| Strontium | 0.500 | 0.513 | | mg/L | | 103 | 85 - 115 |

## Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

**Lab Sample ID: 440-107774-1 MS**
**Matrix: Water**
**Analysis Batch: 251583**

**Client Sample ID: W039**
**Prep Type: Dissolved**
**Prep Batch: 251379**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Boron | 0.78 | | 0.500 | 1.26 | | mg/L | | 96 | 70 - 130 |
| Calcium | 28 | | 2.50 | 28.8 | 4 | mg/L | | 25 | 70 - 130 |
| Iron | 2.5 | | 0.500 | 2.91 | 4 | mg/L | | 76 | 70 - 130 |
| Potassium | 5.7 | | 5.00 | 10.4 | | mg/L | | 94 | 70 - 130 |
| Lithium | 0.041 | J | 0.500 | 0.472 | J | mg/L | | 86 | 70 - 130 |
| Magnesium | 5.2 | | 2.50 | 7.40 | | mg/L | | 89 | 70 - 130 |
| Manganese | 0.089 | | 0.500 | 0.576 | | mg/L | | 97 | 70 - 130 |
| Sodium | 130 | | 5.00 | 125 | 4 | mg/L | | -47 | 70 - 130 |
| Strontium | 0.42 | | 0.500 | 0.905 | | mg/L | | 97 | 70 - 130 |

**Lab Sample ID: 440-107774-1 MSD**
**Matrix: Water**
**Analysis Batch: 251583**

**Client Sample ID: W039**
**Prep Type: Dissolved**
**Prep Batch: 251379**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Boron | 0.78 | | 0.500 | 1.30 | | mg/L | | 104 | 70 - 130 | 3 | 20 |
| Calcium | 28 | | 2.50 | 28.9 | 4 | mg/L | | 29 | 70 - 130 | 0 | 20 |
| Iron | 2.5 | | 0.500 | 2.95 | 4 | mg/L | | 86 | 70 - 130 | 2 | 20 |
| Potassium | 5.7 | | 5.00 | 10.3 | | mg/L | | 93 | 70 - 130 | 1 | 20 |
| Lithium | 0.041 | J | 0.500 | 0.482 | J | mg/L | | 88 | 70 - 130 | 2 | 20 |
| Magnesium | 5.2 | | 2.50 | 7.67 | | mg/L | | 100 | 70 - 130 | 4 | 20 |
| Manganese | 0.089 | | 0.500 | 0.590 | | mg/L | | 100 | 70 - 130 | 2 | 20 |
| Sodium | 130 | | 5.00 | 125 | 4 | mg/L | | -45 | 70 - 130 | 0 | 20 |
| Strontium | 0.42 | | 0.500 | 0.908 | | mg/L | | 98 | 70 - 130 | 0 | 20 |

## Method: 200.8 - Metals (ICP/MS)

**Lab Sample ID: MB 440-251391/1-A**
**Matrix: Water**
**Analysis Batch: 251614**

**Client Sample ID: Method Blank**
**Prep Type: Total Recoverable**
**Prep Batch: 251391**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Uranium | ND | | 1.0 | 0.50 | ug/L | | 04/27/15 14:08 | 04/28/15 12:35 | 1 |

**Lab Sample ID: LCS 440-251391/2-A**
**Matrix: Water**
**Analysis Batch: 251614**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 251391**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Uranium | 80.0 | 77.6 | | ug/L | | 97 | 85 - 115 |

**Lab Sample ID: 440-107774-1 MS**
**Matrix: Water**
**Analysis Batch: 251614**

**Client Sample ID: W039**
**Prep Type: Dissolved**
**Prep Batch: 251391**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Uranium | ND | | 80.0 | 75.5 | | ug/L | | 94 | 70 - 130 |

## Method: 200.8 - Metals (ICP/MS) (Continued)

**Lab Sample ID: 440-107774-1 MSD** — **Client Sample ID: W039**
**Matrix: Water** — **Prep Type: Dissolved**
**Analysis Batch: 251614** — **Prep Batch: 251391**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Uranium | ND | | 80.0 | 75.2 | | ug/L | | 94 | 70 - 130 | 0 | 20 |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 440-251355/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total Recoverable**
**Analysis Batch: 251643** — **Prep Batch: 251355**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 0.010 | 0.0060 | mg/L | | 04/27/15 11:40 | 04/28/15 12:35 | 1 |
| Arsenic | ND | | 0.010 | 0.0050 | mg/L | | 04/27/15 11:40 | 04/28/15 12:35 | 1 |
| Barium | ND | | 0.010 | 0.0050 | mg/L | | 04/27/15 11:40 | 04/28/15 12:35 | 1 |
| Beryllium | ND | | 0.0020 | 0.0010 | mg/L | | 04/27/15 11:40 | 04/28/15 12:35 | 1 |
| Cadmium | ND | | 0.0050 | 0.0020 | mg/L | | 04/27/15 11:40 | 04/28/15 12:35 | 1 |
| Chromium | ND | | 0.0050 | 0.0025 | mg/L | | 04/27/15 11:40 | 04/28/15 12:35 | 1 |
| Cobalt | ND | | 0.010 | 0.0025 | mg/L | | 04/27/15 11:40 | 04/28/15 12:35 | 1 |
| Copper | ND | | 0.010 | 0.0050 | mg/L | | 04/27/15 11:40 | 04/28/15 12:35 | 1 |
| Lead | ND | | 0.0050 | 0.0025 | mg/L | | 04/27/15 11:40 | 04/28/15 12:35 | 1 |
| Molybdenum | ND | | 0.020 | 0.010 | mg/L | | 04/27/15 11:40 | 04/28/15 12:35 | 1 |
| Nickel | ND | | 0.010 | 0.0050 | mg/L | | 04/27/15 11:40 | 04/28/15 12:35 | 1 |
| Selenium | ND | | 0.010 | 0.0061 | mg/L | | 04/27/15 11:40 | 04/28/15 12:35 | 1 |
| Silver | ND | | 0.010 | 0.0050 | mg/L | | 04/27/15 11:40 | 04/28/15 12:35 | 1 |
| Thallium | ND | | 0.010 | 0.0050 | mg/L | | 04/27/15 11:40 | 04/28/15 12:35 | 1 |
| Vanadium | ND | | 0.010 | 0.0050 | mg/L | | 04/27/15 11:40 | 04/28/15 12:35 | 1 |
| Zinc | ND | | 0.020 | 0.010 | mg/L | | 04/27/15 11:40 | 04/28/15 12:35 | 1 |

**Lab Sample ID: LCS 440-251355/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total Recoverable**
**Analysis Batch: 251643** — **Prep Batch: 251355**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Antimony | 1.00 | 1.03 | | mg/L | | 103 | 80 - 120 |
| Arsenic | 1.00 | 0.966 | | mg/L | | 97 | 80 - 120 |
| Barium | 1.00 | 0.989 | | mg/L | | 99 | 80 - 120 |
| Beryllium | 1.00 | 1.01 | | mg/L | | 101 | 80 - 120 |
| Cadmium | 1.00 | 0.953 | | mg/L | | 95 | 80 - 120 |
| Chromium | 1.00 | 0.975 | | mg/L | | 98 | 80 - 120 |
| Cobalt | 1.00 | 0.994 | | mg/L | | 99 | 80 - 120 |
| Copper | 1.00 | 1.02 | | mg/L | | 102 | 80 - 120 |
| Lead | 1.00 | 0.980 | | mg/L | | 98 | 80 - 120 |
| Molybdenum | 1.00 | 0.999 | | mg/L | | 100 | 80 - 120 |
| Nickel | 1.00 | 0.990 | | mg/L | | 99 | 80 - 120 |
| Selenium | 1.00 | 0.937 | | mg/L | | 94 | 80 - 120 |
| Silver | 0.500 | 0.503 | | mg/L | | 101 | 80 - 120 |
| Thallium | 1.00 | 0.960 | | mg/L | | 96 | 80 - 120 |
| Vanadium | 1.00 | 0.994 | | mg/L | | 99 | 80 - 120 |
| Zinc | 1.00 | 0.945 | | mg/L | | 95 | 80 - 120 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 440-107500-C-1-B MS ^2**
**Matrix: Water**
**Analysis Batch: 251643**

**Client Sample ID: Matrix Spike**
**Prep Type: Dissolved**
**Prep Batch: 251355**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 1.00 | 1.04 | | mg/L | | 104 | 75 - 125 |
| Arsenic | ND | | 1.00 | 0.996 | | mg/L | | 100 | 75 - 125 |
| Barium | 0.027 | | 1.00 | 0.969 | | mg/L | | 94 | 75 - 125 |
| Beryllium | ND | | 1.00 | 0.958 | | mg/L | | 96 | 75 - 125 |
| Cadmium | 0.0072 | J | 1.00 | 0.899 | | mg/L | | 89 | 75 - 125 |
| Chromium | ND | | 1.00 | 0.884 | | mg/L | | 88 | 75 - 125 |
| Cobalt | 0.69 | | 1.00 | 1.61 | | mg/L | | 92 | 75 - 125 |
| Copper | 0.060 | | 1.00 | 1.13 | | mg/L | | 107 | 75 - 125 |
| Lead | 0.0072 | J | 1.00 | 0.956 | | mg/L | | 95 | 75 - 125 |
| Molybdenum | ND | | 1.00 | 0.966 | | mg/L | | 97 | 75 - 125 |
| Nickel | 1.6 | | 1.00 | 2.61 | | mg/L | | 103 | 75 - 125 |
| Selenium | 0.017 | J | 1.00 | 0.950 | | mg/L | | 93 | 75 - 125 |
| Silver | ND | | 0.500 | 0.516 | | mg/L | | 103 | 75 - 125 |
| Thallium | 0.022 | | 1.00 | 0.908 | | mg/L | | 89 | 75 - 125 |
| Vanadium | ND | | 1.00 | 0.963 | | mg/L | | 96 | 75 - 125 |
| Zinc | 0.21 | | 1.00 | 1.15 | | mg/L | | 94 | 75 - 125 |

**Lab Sample ID: 440-107500-C-1-C MSD ^2**
**Matrix: Water**
**Analysis Batch: 251643**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Dissolved**
**Prep Batch: 251355**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 1.00 | 0.902 | | mg/L | | 90 | 75 - 125 | 14 | 20 |
| Arsenic | ND | | 1.00 | 0.868 | | mg/L | | 87 | 75 - 125 | 14 | 20 |
| Barium | 0.027 | | 1.00 | 0.867 | | mg/L | | 84 | 75 - 125 | 11 | 20 |
| Beryllium | ND | | 1.00 | 0.857 | | mg/L | | 86 | 75 - 125 | 11 | 20 |
| Cadmium | 0.0072 | J | 1.00 | 0.811 | | mg/L | | 80 | 75 - 125 | 10 | 20 |
| Chromium | ND | | 1.00 | 0.797 | | mg/L | | 80 | 75 - 125 | 10 | 20 |
| Cobalt | 0.69 | | 1.00 | 1.44 | | mg/L | | 75 | 75 - 125 | 11 | 20 |
| Copper | 0.060 | | 1.00 | 1.00 | | mg/L | | 94 | 75 - 125 | 12 | 20 |
| Lead | 0.0072 | J | 1.00 | 0.853 | | mg/L | | 85 | 75 - 125 | 11 | 20 |
| Molybdenum | ND | | 1.00 | 0.870 | | mg/L | | 87 | 75 - 125 | 11 | 20 |
| Nickel | 1.6 | | 1.00 | 2.34 | | mg/L | | 75 | 75 - 125 | 11 | 20 |
| Selenium | 0.017 | J | 1.00 | 0.848 | | mg/L | | 83 | 75 - 125 | 11 | 20 |
| Silver | ND | | 0.500 | 0.462 | | mg/L | | 92 | 75 - 125 | 11 | 20 |
| Thallium | 0.022 | | 1.00 | 0.816 | | mg/L | | 79 | 75 - 125 | 11 | 20 |
| Vanadium | ND | | 1.00 | 0.865 | | mg/L | | 86 | 75 - 125 | 11 | 20 |
| Zinc | 0.21 | | 1.00 | 1.03 | | mg/L | | 82 | 75 - 125 | 11 | 20 |

**Lab Sample ID: MB 440-251242/1-A ^20**
**Matrix: Water**
**Analysis Batch: 251585**

**Client Sample ID: Method Blank**
**Prep Type: STLC Citrate**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 0.20 | 0.12 | mg/L | | | 04/28/15 11:10 | 20 |
| Arsenic | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:10 | 20 |
| Barium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:10 | 20 |
| Beryllium | ND | | 0.040 | 0.020 | mg/L | | | 04/28/15 11:10 | 20 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 440-251242/1-A ^20**
**Matrix: Water**
**Analysis Batch: 251585**

**Client Sample ID: Method Blank**
**Prep Type: STLC Citrate**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cadmium | ND | | 0.10 | 0.040 | mg/L | | | 04/28/15 11:10 | 20 |
| Chromium | ND | | 0.10 | 0.050 | mg/L | | | 04/28/15 11:10 | 20 |
| Cobalt | ND | | 0.20 | 0.050 | mg/L | | | 04/28/15 11:10 | 20 |
| Copper | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:10 | 20 |
| Lead | ND | | 0.10 | 0.050 | mg/L | | | 04/28/15 11:10 | 20 |
| Molybdenum | ND | | 0.40 | 0.20 | mg/L | | | 04/28/15 11:10 | 20 |
| Nickel | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:10 | 20 |
| Selenium | ND | | 0.20 | 0.12 | mg/L | | | 04/28/15 11:10 | 20 |
| Silver | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:10 | 20 |
| Thallium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:10 | 20 |
| Vanadium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:10 | 20 |
| Zinc | ND | | 0.40 | 0.20 | mg/L | | | 04/28/15 11:10 | 20 |

**Lab Sample ID: LCS 440-251242/2-A ^20**
**Matrix: Water**
**Analysis Batch: 251585**

**Client Sample ID: Lab Control Sample**
**Prep Type: STLC Citrate**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Antimony | 20.0 | 19.7 | | mg/L | | 99 | 80 - 120 |
| Arsenic | 20.0 | 19.6 | | mg/L | | 98 | 80 - 120 |
| Barium | 20.0 | 19.4 | | mg/L | | 97 | 80 - 120 |
| Beryllium | 20.0 | 19.3 | | mg/L | | 97 | 80 - 120 |
| Cadmium | 20.0 | 19.3 | | mg/L | | 97 | 80 - 120 |
| Chromium | 20.0 | 18.1 | | mg/L | | 90 | 80 - 120 |
| Cobalt | 20.0 | 18.5 | | mg/L | | 92 | 80 - 120 |
| Copper | 20.0 | 19.9 | | mg/L | | 99 | 80 - 120 |
| Lead | 20.0 | 19.7 | | mg/L | | 99 | 80 - 120 |
| Molybdenum | 20.0 | 18.9 | | mg/L | | 94 | 80 - 120 |
| Nickel | 20.0 | 18.7 | | mg/L | | 94 | 80 - 120 |
| Selenium | 20.0 | 19.4 | | mg/L | | 97 | 80 - 120 |
| Silver | 10.0 | 9.52 | | mg/L | | 95 | 80 - 120 |
| Thallium | 20.0 | 19.5 | | mg/L | | 98 | 80 - 120 |
| Vanadium | 20.0 | 19.7 | | mg/L | | 98 | 80 - 120 |
| Zinc | 20.0 | 19.2 | | mg/L | | 96 | 80 - 120 |

**Lab Sample ID: 440-107774-1 MS**
**Matrix: Water**
**Analysis Batch: 251585**

**Client Sample ID: W039**
**Prep Type: STLC Citrate**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 0.15 | J | 20.0 | 20.9 | | mg/L | | 104 | 75 - 125 |
| Arsenic | ND | | 20.0 | 20.8 | | mg/L | | 104 | 75 - 125 |
| Barium | 0.10 | J | 20.0 | 20.7 | | mg/L | | 103 | 75 - 125 |
| Beryllium | ND | | 20.0 | 20.5 | | mg/L | | 102 | 75 - 125 |
| Cadmium | ND | | 20.0 | 20.6 | | mg/L | | 103 | 75 - 125 |
| Chromium | ND | | 20.0 | 19.3 | | mg/L | | 96 | 75 - 125 |
| Cobalt | ND | | 20.0 | 19.7 | | mg/L | | 98 | 75 - 125 |
| Copper | ND | | 20.0 | 21.1 | | mg/L | | 106 | 75 - 125 |
| Lead | ND | | 20.0 | 20.8 | | mg/L | | 104 | 75 - 125 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 440-107774-1 MS** — **Client Sample ID: W039**
**Matrix: Water** — **Prep Type: STLC Citrate**
**Analysis Batch: 251585**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Molybdenum | 0.35 | J | 20.0 | 20.1 | | mg/L | | 99 | 75 - 125 |
| Nickel | ND | | 20.0 | 19.9 | | mg/L | | 99 | 75 - 125 |
| Selenium | 0.16 | J | 20.0 | 20.5 | | mg/L | | 102 | 75 - 125 |
| Silver | ND | | 10.0 | 9.73 | | mg/L | | 97 | 75 - 125 |
| Thallium | ND | | 20.0 | 20.5 | | mg/L | | 103 | 75 - 125 |
| Vanadium | ND | | 20.0 | 20.9 | | mg/L | | 104 | 75 - 125 |
| Zinc | ND | | 20.0 | 20.4 | | mg/L | | 102 | 75 - 125 |

**Lab Sample ID: 440-107774-1 MSD** — **Client Sample ID: W039**
**Matrix: Water** — **Prep Type: STLC Citrate**
**Analysis Batch: 251585**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 0.15 | J | 20.0 | 20.6 | | mg/L | | 102 | 75 - 125 | 1 | 20 |
| Arsenic | ND | | 20.0 | 20.5 | | mg/L | | 102 | 75 - 125 | 2 | 20 |
| Barium | 0.10 | J | 20.0 | 20.2 | | mg/L | | 101 | 75 - 125 | 2 | 20 |
| Beryllium | ND | | 20.0 | 20.5 | | mg/L | | 102 | 75 - 125 | 0 | 20 |
| Cadmium | ND | | 20.0 | 20.2 | | mg/L | | 101 | 75 - 125 | 2 | 20 |
| Chromium | ND | | 20.0 | 18.9 | | mg/L | | 95 | 75 - 125 | 2 | 20 |
| Cobalt | ND | | 20.0 | 19.3 | | mg/L | | 97 | 75 - 125 | 2 | 20 |
| Copper | ND | | 20.0 | 20.8 | | mg/L | | 104 | 75 - 125 | 2 | 20 |
| Lead | ND | | 20.0 | 20.6 | | mg/L | | 103 | 75 - 125 | 1 | 20 |
| Molybdenum | 0.35 | J | 20.0 | 20.0 | | mg/L | | 98 | 75 - 125 | 0 | 20 |
| Nickel | ND | | 20.0 | 19.5 | | mg/L | | 98 | 75 - 125 | 2 | 20 |
| Selenium | 0.16 | J | 20.0 | 20.3 | | mg/L | | 100 | 75 - 125 | 1 | 20 |
| Silver | ND | | 10.0 | 9.54 | | mg/L | | 95 | 75 - 125 | 2 | 20 |
| Thallium | ND | | 20.0 | 20.2 | | mg/L | | 101 | 75 - 125 | 2 | 20 |
| Vanadium | ND | | 20.0 | 20.7 | | mg/L | | 103 | 75 - 125 | 1 | 20 |
| Zinc | ND | | 20.0 | 20.0 | | mg/L | | 100 | 75 - 125 | 2 | 20 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 440-250869/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 251338** — **Prep Batch: 250869**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.000114 | J | 0.00020 | 0.00010 | mg/L | | 04/23/15 20:00 | 04/25/15 00:25 | 1 |

**Lab Sample ID: LCS 440-250869/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 251338** — **Prep Batch: 250869**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.00800 | 0.00852 | | mg/L | | 107 | 80 - 120 |

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: 440-107813-P-9-B MS** — **Client Sample ID: Matrix Spike**
**Matrix: Water** — **Prep Type: Dissolved**
**Analysis Batch: 251338** — **Prep Batch: 250869**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00013 | J B | 0.00800 | 0.00858 | | mg/L | | 106 | 70 - 130 |

**Lab Sample ID: 440-107813-P-9-C MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Water** — **Prep Type: Dissolved**
**Analysis Batch: 251338** — **Prep Batch: 250869**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00013 | J B | 0.00800 | 0.00871 | | mg/L | | 107 | 70 - 130 | 1 | 20 |

**Lab Sample ID: MB 440-251242/1-B** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: STLC Citrate**
**Analysis Batch: 251694** — **Prep Batch: 251449**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0020 | 0.0010 | mg/L | | 04/27/15 17:39 | 04/28/15 16:49 | 1 |

**Lab Sample ID: LCS 440-251242/2-B** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: STLC Citrate**
**Analysis Batch: 251694** — **Prep Batch: 251449**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.0800 | 0.0866 | | mg/L | | 108 | 80 - 120 |

**Lab Sample ID: 440-107892-E-1-C MS** — **Client Sample ID: Matrix Spike**
**Matrix: Water** — **Prep Type: STLC Citrate**
**Analysis Batch: 251694** — **Prep Batch: 251449**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0800 | 0.0857 | | mg/L | | 107 | 70 - 130 |

**Lab Sample ID: 440-107892-E-1-D MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Water** — **Prep Type: STLC Citrate**
**Analysis Batch: 251694** — **Prep Batch: 251449**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0800 | 0.0864 | | mg/L | | 108 | 70 - 130 | 1 | 20 |

## Method: SM 2320B - Alkalinity

**Lab Sample ID: MB 440-250661/3** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250661**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/23/15 05:23 | 1 |
| Bicarbonate Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/23/15 05:23 | 1 |
| Carbonate Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/23/15 05:23 | 1 |
| Hydroxide Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/23/15 05:23 | 1 |

## Method: SM 2320B - Alkalinity (Continued)

**Lab Sample ID: LCS 440-250661/2** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250661**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity as CaCO3 | | | 85.4 | 86.4 | | mg/L | | 101 | 80 - 120 | | |

**Lab Sample ID: 440-107791-B-5 DU** — **Client Sample ID: Duplicate**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250661**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity as CaCO3 | ND | | | ND | | mg/L | | | | NC | 20 |
| Bicarbonate Alkalinity as CaCO3 | ND | | | ND | | mg/L | | | | NC | 20 |
| Carbonate Alkalinity as CaCO3 | ND | | | ND | | mg/L | | | | NC | 20 |
| Hydroxide Alkalinity as CaCO3 | ND | | | ND | | mg/L | | | | NC | 20 |

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 440-251309/1** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 251309**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | ND | | 10 | 5.0 | mg/L | | | 04/27/15 09:24 | 1 |

**Lab Sample ID: LCS 440-251309/2** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 251309**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | | 1000 | 1020 | | mg/L | | 102 | 90 - 110 | | |

**Lab Sample ID: 720-64325-C-6 DU** — **Client Sample ID: Duplicate**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 251309**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 1300 | | | 1300 | | mg/L | | | | 3 | 5 |

# QC Association Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107774-1

## GC/MS VOA

### Analysis Batch: 251276

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | Total/NA | Water | 8260B | |
| 440-107825-A-3 MS | Matrix Spike | Total/NA | Water | 8260B | |
| 440-107825-A-3 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B | |
| LCS 440-251276/4 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 440-251276/3 | Method Blank | Total/NA | Water | 8260B | |

## GC/MS Semi VOA

### Prep Batch: 251224

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | Total/NA | Water | 3520C | |
| LCS 440-251224/2-A | Lab Control Sample | Total/NA | Water | 3520C | |
| LCSD 440-251224/3-A | Lab Control Sample Dup | Total/NA | Water | 3520C | |
| MB 440-251224/1-A | Method Blank | Total/NA | Water | 3520C | |

### Analysis Batch: 251421

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | Total/NA | Water | 8270C SIM | 251224 |
| LCS 440-251224/2-A | Lab Control Sample | Total/NA | Water | 8270C SIM | 251224 |
| LCSD 440-251224/3-A | Lab Control Sample Dup | Total/NA | Water | 8270C SIM | 251224 |
| MB 440-251224/1-A | Method Blank | Total/NA | Water | 8270C SIM | 251224 |

## GC Semi VOA

### Prep Batch: 250669

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | Total/NA | Water | 3510C | |
| LCS 440-250669/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 440-250669/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| MB 440-250669/1-A | Method Blank | Total/NA | Water | 3510C | |

### Analysis Batch: 250929

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 440-250669/2-A | Lab Control Sample | Total/NA | Water | 8015B | 250669 |
| LCSD 440-250669/3-A | Lab Control Sample Dup | Total/NA | Water | 8015B | 250669 |
| MB 440-250669/1-A | Method Blank | Total/NA | Water | 8015B | 250669 |

### Analysis Batch: 250930

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | Total/NA | Water | 8015B | 250669 |

## HPLC/IC

### Analysis Batch: 250448

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107701-H-6 MS | Matrix Spike | Total/NA | Water | 300.0 | |
| 440-107701-H-6 MSD | Matrix Spike Duplicate | Total/NA | Water | 300.0 | |
| 440-107774-1 | W039 | Total/NA | Water | 300.0 | |
| LCS 440-250448/6 | Lab Control Sample | Total/NA | Water | 300.0 | |
| MB 440-250448/4 | Method Blank | Total/NA | Water | 300.0 | |

# QC Association Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107774-1

### Analysis Batch: 250449

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107701-H-6 MS | Matrix Spike | Total/NA | Water | 300.0 | |
| 440-107701-H-6 MSD | Matrix Spike Duplicate | Total/NA | Water | 300.0 | |
| 440-107774-1 | W039 | Total/NA | Water | 300.0 | |
| 440-107774-1 | W039 | Total/NA | Water | 300.0 | |
| LCS 440-250449/6 | Lab Control Sample | Total/NA | Water | 300.0 | |
| MB 440-250449/4 | Method Blank | Total/NA | Water | 300.0 | |

## Metals

### Prep Batch: 250869

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | Dissolved | Water | 7470A | |
| 440-107813-P-9-B MS | Matrix Spike | Dissolved | Water | 7470A | |
| 440-107813-P-9-C MSD | Matrix Spike Duplicate | Dissolved | Water | 7470A | |
| LCS 440-250869/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| MB 440-250869/1-A | Method Blank | Total/NA | Water | 7470A | |

### Leach Batch: 251242

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | STLC Citrate | Water | CA WET Citrate | |
| 440-107774-1 MS | W039 | STLC Citrate | Water | CA WET Citrate | |
| 440-107774-1 MSD | W039 | STLC Citrate | Water | CA WET Citrate | |
| 440-107892-E-1-C MS | Matrix Spike | STLC Citrate | Water | CA WET Citrate | |
| 440-107892-E-1-D MSD | Matrix Spike Duplicate | STLC Citrate | Water | CA WET Citrate | |
| LCS 440-251242/2-A ^20 | Lab Control Sample | STLC Citrate | Water | CA WET Citrate | |
| LCS 440-251242/2-B | Lab Control Sample | STLC Citrate | Water | CA WET Citrate | |
| MB 440-251242/1-A ^20 | Method Blank | STLC Citrate | Water | CA WET Citrate | |
| MB 440-251242/1-B | Method Blank | STLC Citrate | Water | CA WET Citrate | |

### Analysis Batch: 251338

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | Dissolved | Water | 7470A | 250869 |
| 440-107813-P-9-B MS | Matrix Spike | Dissolved | Water | 7470A | 250869 |
| 440-107813-P-9-C MSD | Matrix Spike Duplicate | Dissolved | Water | 7470A | 250869 |
| LCS 440-250869/2-A | Lab Control Sample | Total/NA | Water | 7470A | 250869 |
| MB 440-250869/1-A | Method Blank | Total/NA | Water | 7470A | 250869 |

### Prep Batch: 251355

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107500-C-1-B MS ^2 | Matrix Spike | Dissolved | Water | 3005A | |
| 440-107500-C-1-C MSD ^2 | Matrix Spike Duplicate | Dissolved | Water | 3005A | |
| 440-107774-1 | W039 | Dissolved | Water | 3005A | |
| LCS 440-251355/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| MB 440-251355/1-A | Method Blank | Total Recoverable | Water | 3005A | |

### Prep Batch: 251379

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | Dissolved | Water | 200.2 | |
| 440-107774-1 MS | W039 | Dissolved | Water | 200.2 | |
| 440-107774-1 MSD | W039 | Dissolved | Water | 200.2 | |
| LCS 440-251379/2-A | Lab Control Sample | Total Recoverable | Water | 200.2 | |
| MB 440-251379/1-A | Method Blank | Total Recoverable | Water | 200.2 | |

## Metals (Continued)

### Prep Batch: 251391

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | Dissolved | Water | 200.2 | |
| 440-107774-1 MS | W039 | Dissolved | Water | 200.2 | |
| 440-107774-1 MSD | W039 | Dissolved | Water | 200.2 | |
| LCS 440-251391/2-A | Lab Control Sample | Total Recoverable | Water | 200.2 | |
| MB 440-251391/1-A | Method Blank | Total Recoverable | Water | 200.2 | |

### Prep Batch: 251449

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | STLC Citrate | Water | 7470A | 251242 |
| 440-107892-E-1-C MS | Matrix Spike | STLC Citrate | Water | 7470A | 251242 |
| 440-107892-E-1-D MSD | Matrix Spike Duplicate | STLC Citrate | Water | 7470A | 251242 |
| LCS 440-251242/2-B | Lab Control Sample | STLC Citrate | Water | 7470A | 251242 |
| MB 440-251242/1-B | Method Blank | STLC Citrate | Water | 7470A | 251242 |

### Analysis Batch: 251583

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | Dissolved | Water | 200.7 Rev 4.4 | 251379 |
| 440-107774-1 MS | W039 | Dissolved | Water | 200.7 Rev 4.4 | 251379 |
| 440-107774-1 MSD | W039 | Dissolved | Water | 200.7 Rev 4.4 | 251379 |
| LCS 440-251379/2-A | Lab Control Sample | Total Recoverable | Water | 200.7 Rev 4.4 | 251379 |
| MB 440-251379/1-A | Method Blank | Total Recoverable | Water | 200.7 Rev 4.4 | 251379 |

### Analysis Batch: 251585

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | STLC Citrate | Water | 6010B | 251242 |
| 440-107774-1 MS | W039 | STLC Citrate | Water | 6010B | 251242 |
| 440-107774-1 MSD | W039 | STLC Citrate | Water | 6010B | 251242 |
| LCS 440-251242/2-A ^20 | Lab Control Sample | STLC Citrate | Water | 6010B | 251242 |
| MB 440-251242/1-A ^20 | Method Blank | STLC Citrate | Water | 6010B | 251242 |

### Analysis Batch: 251614

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | Dissolved | Water | 200.8 | 251391 |
| 440-107774-1 MS | W039 | Dissolved | Water | 200.8 | 251391 |
| 440-107774-1 MSD | W039 | Dissolved | Water | 200.8 | 251391 |
| LCS 440-251391/2-A | Lab Control Sample | Total Recoverable | Water | 200.8 | 251391 |
| MB 440-251391/1-A | Method Blank | Total Recoverable | Water | 200.8 | 251391 |

### Analysis Batch: 251643

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107500-C-1-B MS ^2 | Matrix Spike | Dissolved | Water | 6010B | 251355 |
| 440-107500-C-1-C MSD ^2 | Matrix Spike Duplicate | Dissolved | Water | 6010B | 251355 |
| 440-107774-1 | W039 | Dissolved | Water | 6010B | 251355 |
| LCS 440-251355/2-A | Lab Control Sample | Total Recoverable | Water | 6010B | 251355 |
| MB 440-251355/1-A | Method Blank | Total Recoverable | Water | 6010B | 251355 |

### Analysis Batch: 251694

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | STLC Citrate | Water | 7470A | 251449 |
| 440-107892-E-1-C MS | Matrix Spike | STLC Citrate | Water | 7470A | 251449 |
| 440-107892-E-1-D MSD | Matrix Spike Duplicate | STLC Citrate | Water | 7470A | 251449 |

## Metals (Continued)

### Analysis Batch: 251694 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 440-251242/2-B | Lab Control Sample | STLC Citrate | Water | 7470A | 251449 |
| MB 440-251242/1-B | Method Blank | STLC Citrate | Water | 7470A | 251449 |

## General Chemistry

### Analysis Batch: 250661

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | Total/NA | Water | SM 2320B | |
| 440-107791-B-5 DU | Duplicate | Total/NA | Water | SM 2320B | |
| LCS 440-250661/2 | Lab Control Sample | Total/NA | Water | SM 2320B | |
| MB 440-250661/3 | Method Blank | Total/NA | Water | SM 2320B | |

### Analysis Batch: 251309

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-1 | W039 | Total/NA | Water | SM 2540C | |
| 720-64325-C-6 DU | Duplicate | Total/NA | Water | SM 2540C | |
| LCS 440-251309/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| MB 440-251309/1 | Method Blank | Total/NA | Water | SM 2540C | |

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F2 | MS/MSD RPD exceeds control limits |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| * | ISTD response or retention time outside acceptable limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### HPLC/IC

| Qualifier | Qualifier Description |
|---|---|
| F1 | MS and/or MSD Recovery is outside acceptance 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. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| 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. |

## 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: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107774-1

## 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 | 01-31-16 * |
| California | State Program | 9 | 2706 | 06-30-16 |
| Guam | State Program | 9 | Cert. No. 12.002r | 01-23-16 |
| Hawaii | State Program | 9 | N/A | 01-29-16 |
| 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 | 01-29-16 |
| USDA | Federal | | P330-09-00080 | 06-06-15 |

* Certification renewal pending - certification considered valid.

# CHAIN-OF-CUSTODY RECORD

FRE 16810

PROJECT NAME: Canelo sampling

PROJECT NUMBER: FR1416063A

RESULTS TO: Gary Kramer

TURNAROUND TIME: 5-day

SAMPLE SHIPMENT METHOD: Fedex

LABORATORY NAME: Test America

LABORATORY ADDRESS: 17461 Derian Ave Suite 100

LABORATORY CONTACT: Patty Marta

LABORATORY PHONE NUMBER: 949-261-1022

CLIENT INFORMATION: Irvine CA 92614

DATE: 4/21/15

PAGE OF

REPORTING REQUIREMENTS:

GEOTRACKER REQUIRED Yes EDF YES NO

SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

ANALYSES

| DATE | TIME | SAMPLE NUMBER | 8260B Acetone BTEX | | 8270c PAH | 8015B | 300.0 Cl, Br, F | 300 NO3 | 2540c TDS | 8320B Alk | 200.7, 200.8 | 6010B 7470A | 6010B STLC, RCRA | Acetone BTEX | CONTAINER TYPE AND SIZE | Soil (S), Water (W), Vapor (V), or Other (O) | Filtered | Preservative Type | Cooled | MS/MSD | No. of Containers | ADDITIONAL COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/21/15 | 4:15 | W039 | 3 | | 2 | 1 | 1 | | | | 1 (Filtered) | | 1 | | | W | 200.7 200.8 | | Y | | 9 | |

440-107774 Chain of Custody

TOTAL NUMBER OF CONTAINERS:

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | DATE | TIME |
|---|---|---|---|---|---|
| SIGNATURE: [signature] | 4/21 2015 | 4:35 | SIGNATURE: [signature] | 4/21/15 | 4:35 |
| PRINTED NAME: Johnathan Eberbach | | | PRINTED NAME: VU BANH | | |
| COMPANY: Amec FW | | | COMPANY: TAI 4.7/35 IR72 | | |
| SIGNATURE: [signature] | | | SIGNATURE: | | |
| PRINTED NAME: Patty Thomas | | | PRINTED NAME: | | |
| COMPANY: | | | COMPANY: | | |
| SIGNATURE: | | | SIGNATURE: | | |
| PRINTED NAME: | | | PRINTED NAME: | | |
| COMPANY: | | | COMPANY: | | |

SAMPLING COMMENTS: Send results to gary.kramer@amec.com bottle for 200.7 and 200.8 have been sampled. NO3 has only 48 hr hold so please analyze as quickly as possible (Trip Blank will be sent w/ Next Samples)

1281 East Alluvial Ave., Suite 101
Fresno, California 93720-2659
Tel 559.264.2535 Fax 559.264.7431

amec

Fed: 806166262581

# Login Sample Receipt Checklist

Client: AMEC Foster Wheeler E & I, Inc

Job Number: 440-107774-1

**Login Number: 107774**
**List Number: 1**
**Creator: Jackson, Brent E**

**List Source: TestAmerica Irvine**

| 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 | |

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: 440-107892-1
TestAmerica Sample Delivery Group: FR1416063A
Client Project/Site: Chevron Cawelo
Revision: 2

For:
AMEC Foster Wheeler E & I, Inc
1281 E Alluvial Ave, Ste 101
Fresno, California 93720

Attn: Gary Kramer

*Authorized for release by:*
*6/23/2015 1:02:44 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: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 440-107892-1 | W042 | Water | 04/22/15 11:00 | 04/23/15 09:35 |
| 440-107892-2 | W043 | Water | 04/22/15 11:35 | 04/23/15 09:35 |
| 440-107892-3 | W044 | Water | 04/22/15 13:15 | 04/23/15 09:35 |
| 440-107892-4 | W045 | Water | 04/22/15 14:10 | 04/23/15 09:35 |

## Job ID: 440-107892-1

### Laboratory: TestAmerica Irvine

**Narrative**

**Job Narrative**
**440-107892-1**

**Comments**
Level 4 raw data package was requested for EPA methods 8260 and 8270 on 6/5/15.

This report was revised on 6/19/15 to add methylene chloride to the 8260 analytical.

This report was revised on 6/23/15 to include full 8260 VOC list as requested on 6/22/15.

**Receipt**
The samples were received on 4/23/2015 9:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.8º C, 3.2º C and 3.7º C.

Client was contacted about COC sampling times versus bottle label sampling times and client requested the lab use the bottle label times. The bottle label times are listed below:
W042 = 11:00
W043 = 11:35
W044 = 13:15
W045 = 14:10

**GC/MS VOA**
Method(s) 8260B: The following volatile samples were analyzed with significant headspace in the sample vial due to multiple runs performed: W043 (440-107892-2) and W044 (440-107892-3). Significant headspace is defined as a bubble greater than 6 mm in diameter.

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

**GC/MS Semi VOA**
Method(s) 8270C SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 251224. The laboratory control sample (LCS) was performed in duplicate to provide precision data for the batch.

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

**HPLC/IC**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**GC Semi VOA**
Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 250952. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

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

**Metals**
Method(s) 200.7 and 200.8: Methods require dissolved metals to be filtered immediately which is taken to mean within 15 minutes of sampling. The sample results have HF qualifiers to note that the lab was requested to filter the samples after receipt.

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

**General Chemistry**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Organic Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Job ID: 440-107892-1 (Continued)

### Laboratory: TestAmerica Irvine (Continued)

**VOA Prep**

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

# Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## Client Sample ID: W042

**Date Collected: 04/22/15 11:00**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-1

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acetone** | **86** | | 10 | 4.5 | ug/L | | | 04/28/15 04:41 | 1 |
| **Benzene** | **0.33** | **J** | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Bromobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Bromochloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Bromoform | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 04:41 | 1 |
| Bromomethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.5 | ug/L | | | 04/28/15 04:41 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Chloroethane | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 04:41 | 1 |
| Chloroform | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Chloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.50 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Dibromomethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,3-Dichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Ethanol | ND | | 150 | 75 | ug/L | | | 04/28/15 04:41 | 1 |
| **Ethylbenzene** | **0.39** | **J** | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.5 | ug/L | | | 04/28/15 04:41 | 1 |
| Isopropylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Isopropyl Ether (DIPE) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Methylene Chloride | ND | | 2.0 | 0.88 | ug/L | | | 04/28/15 04:41 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.5 | ug/L | | | 04/28/15 04:41 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| **m,p-Xylene** | **1.3** | | 1.0 | 0.50 | ug/L | | | 04/28/15 04:41 | 1 |
| Naphthalene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 04:41 | 1 |
| n-Butylbenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 04:41 | 1 |
| n-Propylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| **o-Xylene** | **0.74** | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| p-Isopropyltoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| sec-Butylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Styrene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |

# Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## Client Sample ID: W042

**Date Collected: 04/22/15 11:00**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-1

**Matrix: Water**

### 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 | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 10 | 5.0 | ug/L | | | 04/28/15 04:41 | 1 |
| tert-Butylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| **Toluene** | **0.49** | **J** | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Trichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Trichlorofluoromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| **1,2,4-Trimethylbenzene** | **0.68** | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 04:41 | 1 |
| **Xylenes, Total** | **2.0** | | 1.0 | 0.50 | ug/L | | | 04/28/15 04:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* | | *04/28/15 04:41* | *1* |
| *Dibromofluoromethane (Surr)* | *106* | | *76 - 132* | | *04/28/15 04:41* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 128* | | *04/28/15 04:41* | *1* |

### Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **0.53** | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:06 | 1 |
| Acenaphthylene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:06 | 1 |
| Anthracene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:06 | 1 |
| Benzo[a]anthracene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:06 | 1 |
| Benzo[a]pyrene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:06 | 1 |
| Benzo[b]fluoranthene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:06 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:06 | 1 |
| Benzo[k]fluoranthene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:06 | 1 |
| Chrysene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:06 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:06 | 1 |
| Fluoranthene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:06 | 1 |
| **Fluorene** | **0.29** | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:06 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:06 | 1 |
| **Naphthalene** | **0.11** | **J** | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:06 | 1 |
| **Phenanthrene** | **0.27** | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:06 | 1 |
| Pyrene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *71* | | *31 - 120* | *04/26/15 13:54* | *04/28/15 00:06* | *1* |
| *Nitrobenzene-d5* | *65* | | *25 - 133* | *04/26/15 13:54* | *04/28/15 00:06* | *1* |
| *Terphenyl-d14* | *106* | | *10 - 120* | *04/26/15 13:54* | *04/28/15 00:06* | *1* |

# Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## Client Sample ID: W042

**Date Collected: 04/22/15 11:00**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-1

**Matrix: Water**

### Method: 8015B - Diesel Range Organics (DRO) (GC) Low Level

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C29-C40 | 0.19 | | 0.048 | 0.024 | mg/L | | 04/24/15 08:21 | 04/27/15 13:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *67* | | *45 - 120* | *04/24/15 08:21* | *04/27/15 13:08* | *1* |

### Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromide | 0.73 | | 0.50 | 0.25 | mg/L | | | 04/23/15 18:22 | 1 |
| Nitrate as NO3 | ND | | 0.50 | 0.25 | mg/L | | | 04/23/15 18:22 | 1 |
| Chloride | 100 | | 5.0 | 2.5 | mg/L | | | 04/23/15 18:37 | 10 |
| Fluoride | 0.91 | | 0.50 | 0.25 | mg/L | | | 04/23/15 18:22 | 1 |
| Sulfate | 0.62 | | 0.50 | 0.25 | mg/L | | | 04/23/15 18:22 | 1 |

### Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Boron | 0.68 | HF | 0.050 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:04 | 1 |
| Calcium | 25 | HF | 0.10 | 0.050 | mg/L | | 04/29/15 07:45 | 04/29/15 14:04 | 1 |
| Iron | 0.040 | HF | 0.040 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:04 | 1 |
| Lithium | 0.042 | J HF | 0.50 | 0.025 | mg/L | | 04/29/15 07:45 | 04/29/15 14:04 | 1 |
| Magnesium | 4.5 | HF | 0.020 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:04 | 1 |
| Manganese | 0.079 | HF | 0.020 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:04 | 1 |
| Potassium | 5.5 | HF | 0.50 | 0.25 | mg/L | | 04/29/15 07:45 | 04/29/15 14:04 | 1 |
| Sodium | 110 | HF | 0.50 | 0.25 | mg/L | | 04/29/15 07:45 | 04/29/15 14:04 | 1 |
| Strontium | 0.37 | HF | 0.020 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:04 | 1 |

### Method: 200.8 - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Uranium | ND | HF | 1.0 | 0.50 | ug/L | | 04/29/15 07:48 | 04/29/15 14:45 | 1 |

### Method: 6010B - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 0.012 | B | 0.010 | 0.0060 | mg/L | | 04/29/15 07:50 | 04/29/15 14:10 | 1 |
| Arsenic | 0.0065 | J | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:10 | 1 |
| Barium | 0.089 | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:10 | 1 |
| Beryllium | ND | | 0.0020 | 0.0010 | mg/L | | 04/29/15 07:50 | 04/29/15 14:10 | 1 |
| Cadmium | ND | | 0.0050 | 0.0020 | mg/L | | 04/29/15 07:50 | 04/29/15 14:10 | 1 |
| Chromium | ND | | 0.0050 | 0.0025 | mg/L | | 04/29/15 07:50 | 04/29/15 14:10 | 1 |
| Cobalt | ND | | 0.010 | 0.0025 | mg/L | | 04/29/15 07:50 | 04/29/15 14:10 | 1 |
| Copper | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:10 | 1 |
| Lead | ND | | 0.0050 | 0.0025 | mg/L | | 04/29/15 07:50 | 04/29/15 14:10 | 1 |
| Molybdenum | 0.012 | J | 0.020 | 0.010 | mg/L | | 04/29/15 07:50 | 04/29/15 14:10 | 1 |
| Nickel | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:10 | 1 |
| Selenium | ND | | 0.010 | 0.0061 | mg/L | | 04/29/15 07:50 | 04/29/15 14:10 | 1 |
| Silver | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:10 | 1 |
| Thallium | 0.0061 | J | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:10 | 1 |
| Vanadium | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:10 | 1 |
| Zinc | ND | | 0.020 | 0.010 | mg/L | | 04/29/15 07:50 | 04/29/15 14:10 | 1 |

### Method: 6010B - Metals (ICP) - STLC Citrate

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 0.20 | 0.12 | mg/L | | | 04/28/15 11:22 | 20 |

## Client Sample ID: W042

**Lab Sample ID: 440-107892-1**
**Date Collected: 04/22/15 11:00**
**Matrix: Water**
**Date Received: 04/23/15 09:35**

### Method: 6010B - Metals (ICP) - STLC Citrate (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:22 | 20 |
| **Barium** | **0.10** | **J** | 0.20 | 0.10 | mg/L | | | 04/28/15 11:22 | 20 |
| Beryllium | ND | | 0.040 | 0.020 | mg/L | | | 04/28/15 11:22 | 20 |
| Cadmium | ND | | 0.10 | 0.040 | mg/L | | | 04/28/15 11:22 | 20 |
| Chromium | ND | | 0.10 | 0.050 | mg/L | | | 04/28/15 11:22 | 20 |
| Cobalt | ND | | 0.20 | 0.050 | mg/L | | | 04/28/15 11:22 | 20 |
| Copper | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:22 | 20 |
| Lead | ND | | 0.10 | 0.050 | mg/L | | | 04/28/15 11:22 | 20 |
| **Molybdenum** | **0.40** | | 0.40 | 0.20 | mg/L | | | 04/28/15 11:22 | 20 |
| Nickel | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:22 | 20 |
| **Selenium** | **0.14** | **J** | 0.20 | 0.12 | mg/L | | | 04/28/15 11:22 | 20 |
| Silver | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:22 | 20 |
| Thallium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:22 | 20 |
| Vanadium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:22 | 20 |
| Zinc | ND | | 0.40 | 0.20 | mg/L | | | 04/28/15 11:22 | 20 |

### Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.00010 | mg/L | | 04/24/15 15:01 | 04/25/15 02:28 | 1 |

### Method: 7470A - Mercury (CVAA) - STLC Citrate

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0020 | 0.0010 | mg/L | | 04/27/15 17:39 | 04/28/15 16:53 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **230** | | 4.0 | 4.0 | mg/L | | | 04/24/15 06:37 | 1 |
| **Bicarbonate Alkalinity as CaCO3** | **230** | | 4.0 | 4.0 | mg/L | | | 04/24/15 06:37 | 1 |
| Carbonate Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/24/15 06:37 | 1 |
| Hydroxide Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/24/15 06:37 | 1 |
| **Total Dissolved Solids** | **490** | | 10 | 5.0 | mg/L | | | 04/28/15 08:13 | 1 |

## Client Sample ID: W043

**Lab Sample ID: 440-107892-2**
**Date Collected: 04/22/15 11:35**
**Matrix: Water**
**Date Received: 04/23/15 09:35**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acetone** | **100** | | 10 | 4.5 | ug/L | | | 04/28/15 10:11 | 1 |
| **Benzene** | **0.31** | **J** | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Bromobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Bromochloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Bromoform | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 10:11 | 1 |
| Bromomethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| **2-Butanone (MEK)** | **7.8** | | 5.0 | 2.5 | ug/L | | | 04/28/15 10:11 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Chloroethane | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 10:11 | 1 |
| Chloroform | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |

## Client Sample ID: W043

**Date Collected: 04/22/15 11:35**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-2

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.50 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Dibromomethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,3-Dichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Ethanol | ND | | 150 | 75 | ug/L | | | 04/28/15 10:11 | 1 |
| **Ethylbenzene** | **0.38** | **J** | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.5 | ug/L | | | 04/28/15 10:11 | 1 |
| Isopropylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Isopropyl Ether (DIPE) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Methylene Chloride | ND | | 2.0 | 0.88 | ug/L | | | 04/28/15 10:11 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.5 | ug/L | | | 04/28/15 10:11 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| **m,p-Xylene** | **1.2** | | 1.0 | 0.50 | ug/L | | | 04/28/15 10:11 | 1 |
| **Naphthalene** | **0.41** | **J** | 1.0 | 0.40 | ug/L | | | 04/28/15 10:11 | 1 |
| n-Butylbenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 10:11 | 1 |
| n-Propylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| **o-Xylene** | **0.59** | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| p-Isopropyltoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| sec-Butylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Styrene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Tert-amyl-methyl ether (TAME) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 10 | 5.0 | ug/L | | | 04/28/15 10:11 | 1 |
| tert-Butylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| **Toluene** | **0.47** | **J** | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |

# Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## Client Sample ID: W043

**Date Collected: 04/22/15 11:35**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-2

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Trichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Trichlorofluoromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| **1,2,4-Trimethylbenzene** | **0.56** | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:11 | 1 |
| **Xylenes, Total** | **1.8** | | 1.0 | 0.50 | ug/L | | | 04/28/15 10:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *80 - 120* | | *04/28/15 10:11* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *76 - 132* | | *04/28/15 10:11* | *1* |
| *Toluene-d8 (Surr)* | *105* | | *80 - 128* | | *04/28/15 10:11* | *1* |

### Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **0.57** | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:27 | 1 |
| Acenaphthylene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:27 | 1 |
| Anthracene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:27 | 1 |
| Benzo[a]anthracene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:27 | 1 |
| Benzo[a]pyrene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:27 | 1 |
| Benzo[b]fluoranthene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:27 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:27 | 1 |
| Benzo[k]fluoranthene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:27 | 1 |
| Chrysene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:27 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:27 | 1 |
| Fluoranthene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:27 | 1 |
| **Fluorene** | **0.35** | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:27 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:27 | 1 |
| **Naphthalene** | **0.12** | **J** | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:27 | 1 |
| **Phenanthrene** | **0.28** | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:27 | 1 |
| Pyrene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *72* | | *31 - 120* | *04/26/15 13:54* | *04/28/15 00:27* | *1* |
| *Nitrobenzene-d5* | *63* | | *25 - 133* | *04/26/15 13:54* | *04/28/15 00:27* | *1* |
| *Terphenyl-d14* | *107* | | *10 - 120* | *04/26/15 13:54* | *04/28/15 00:27* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC) Low Level

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C29-C40** | **0.097** | | 0.048 | 0.024 | mg/L | | 04/24/15 08:21 | 04/27/15 13:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *78* | | *45 - 120* | *04/24/15 08:21* | *04/27/15 13:28* | *1* |

### Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Bromide** | **0.83** | | 0.50 | 0.25 | mg/L | | | 04/23/15 18:51 | 1 |
| Nitrate as NO3 | ND | | 0.50 | 0.25 | mg/L | | | 04/23/15 18:51 | 1 |
| **Fluoride** | **0.94** | | 0.50 | 0.25 | mg/L | | | 04/23/15 18:51 | 1 |
| **Sulfate** | **0.54** | | 0.50 | 0.25 | mg/L | | | 04/23/15 18:51 | 1 |

# Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## Method: 300.0 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 110 | F1 | 5.0 | 2.5 | mg/L | | | 04/23/15 19:06 | 10 |

## Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Boron | 0.73 | HF | 0.050 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:11 | 1 |
| Calcium | 27 | HF | 0.10 | 0.050 | mg/L | | 04/29/15 07:45 | 04/29/15 14:11 | 1 |
| Iron | 0.061 | HF | 0.040 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:11 | 1 |
| Lithium | 0.042 | J HF | 0.50 | 0.025 | mg/L | | 04/29/15 07:45 | 04/29/15 14:11 | 1 |
| Magnesium | 4.6 | HF | 0.020 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:11 | 1 |
| Manganese | 0.085 | HF | 0.020 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:11 | 1 |
| Potassium | 5.9 | HF | 0.50 | 0.25 | mg/L | | 04/29/15 07:45 | 04/29/15 14:11 | 1 |
| Sodium | 120 | HF | 0.50 | 0.25 | mg/L | | 04/29/15 07:45 | 04/29/15 14:11 | 1 |
| Strontium | 0.41 | HF | 0.020 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:11 | 1 |

## Method: 200.8 - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Uranium | ND | HF | 1.0 | 0.50 | ug/L | | 04/29/15 07:48 | 04/29/15 14:38 | 1 |

## Method: 6010B - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 0.0075 | J B | 0.010 | 0.0060 | mg/L | | 04/29/15 07:50 | 04/29/15 15:48 | 1 |
| Arsenic | 0.011 | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:13 | 1 |
| Barium | 0.091 | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:13 | 1 |
| Beryllium | ND | | 0.0020 | 0.0010 | mg/L | | 04/29/15 07:50 | 04/29/15 14:13 | 1 |
| Cadmium | ND | | 0.0050 | 0.0020 | mg/L | | 04/29/15 07:50 | 04/29/15 14:13 | 1 |
| Chromium | ND | | 0.0050 | 0.0025 | mg/L | | 04/29/15 07:50 | 04/29/15 14:13 | 1 |
| Cobalt | ND | | 0.010 | 0.0025 | mg/L | | 04/29/15 07:50 | 04/29/15 14:13 | 1 |
| Copper | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:13 | 1 |
| Lead | ND | | 0.0050 | 0.0025 | mg/L | | 04/29/15 07:50 | 04/29/15 14:13 | 1 |
| Molybdenum | ND | | 0.020 | 0.010 | mg/L | | 04/29/15 07:50 | 04/29/15 14:13 | 1 |
| Nickel | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:13 | 1 |
| Selenium | ND | | 0.010 | 0.0061 | mg/L | | 04/29/15 07:50 | 04/29/15 14:13 | 1 |
| Silver | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:13 | 1 |
| Thallium | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:13 | 1 |
| Vanadium | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:13 | 1 |
| Zinc | ND | | 0.020 | 0.010 | mg/L | | 04/29/15 07:50 | 04/29/15 14:13 | 1 |

## Method: 6010B - Metals (ICP) - STLC Citrate

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 0.20 | 0.12 | mg/L | | | 04/28/15 11:25 | 20 |
| Arsenic | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:25 | 20 |
| Barium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:25 | 20 |
| Beryllium | ND | | 0.040 | 0.020 | mg/L | | | 04/28/15 11:25 | 20 |
| Cadmium | ND | | 0.10 | 0.040 | mg/L | | | 04/28/15 11:25 | 20 |
| Chromium | ND | | 0.10 | 0.050 | mg/L | | | 04/28/15 11:25 | 20 |
| Cobalt | ND | | 0.20 | 0.050 | mg/L | | | 04/28/15 11:25 | 20 |
| Copper | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:25 | 20 |
| Lead | ND | | 0.10 | 0.050 | mg/L | | | 04/28/15 11:25 | 20 |
| Molybdenum | ND | | 0.40 | 0.20 | mg/L | | | 04/28/15 11:25 | 20 |
| Nickel | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:25 | 20 |
| Selenium | ND | | 0.20 | 0.12 | mg/L | | | 04/28/15 11:25 | 20 |
| Silver | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:25 | 20 |
| Thallium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:25 | 20 |
| Vanadium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:25 | 20 |

# Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## Client Sample ID: W043

**Lab Sample ID: 440-107892-2**
**Date Collected: 04/22/15 11:35**
**Matrix: Water**
**Date Received: 04/23/15 09:35**

### Method: 6010B - Metals (ICP) - STLC Citrate (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Zinc | ND | | 0.40 | 0.20 | mg/L | | | 04/28/15 11:25 | 20 |

### Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.00010 | mg/L | | 04/24/15 15:01 | 04/25/15 02:35 | 1 |

### Method: 7470A - Mercury (CVAA) - STLC Citrate

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0020 | 0.0010 | mg/L | | 04/27/15 17:39 | 04/28/15 17:01 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **210** | | 4.0 | 4.0 | mg/L | | | 04/24/15 06:44 | 1 |
| **Bicarbonate Alkalinity as CaCO3** | **210** | | 4.0 | 4.0 | mg/L | | | 04/24/15 06:44 | 1 |
| Carbonate Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/24/15 06:44 | 1 |
| Hydroxide Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/24/15 06:44 | 1 |
| **Total Dissolved Solids** | **490** | | 10 | 5.0 | mg/L | | | 04/28/15 08:13 | 1 |

## Client Sample ID: W044

**Lab Sample ID: 440-107892-3**
**Date Collected: 04/22/15 13:15**
**Matrix: Water**
**Date Received: 04/23/15 09:35**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acetone** | **150** | | 10 | 4.5 | ug/L | | | 04/28/15 10:41 | 1 |
| Benzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Bromobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Bromochloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Bromoform | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 10:41 | 1 |
| Bromomethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| **2-Butanone (MEK)** | **7.2** | | 5.0 | 2.5 | ug/L | | | 04/28/15 10:41 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Chloroethane | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 10:41 | 1 |
| Chloroform | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Chloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.50 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Dibromomethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |

# Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## Client Sample ID: W044

**Date Collected: 04/22/15 13:15**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-3

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,3-Dichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Ethanol | ND | | 150 | 75 | ug/L | | | 04/28/15 10:41 | 1 |
| **Ethylbenzene** | **0.25** | **J** | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.5 | ug/L | | | 04/28/15 10:41 | 1 |
| Isopropylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Isopropyl Ether (DIPE) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Methylene Chloride | ND | | 2.0 | 0.88 | ug/L | | | 04/28/15 10:41 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.5 | ug/L | | | 04/28/15 10:41 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| **m,p-Xylene** | **0.75** | **J** | 1.0 | 0.50 | ug/L | | | 04/28/15 10:41 | 1 |
| Naphthalene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 10:41 | 1 |
| n-Butylbenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 10:41 | 1 |
| n-Propylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| **o-Xylene** | **0.43** | **J** | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| p-Isopropyltoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| sec-Butylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Styrene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Tert-amyl-methyl ether (TAME) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 10 | 5.0 | ug/L | | | 04/28/15 10:41 | 1 |
| tert-Butylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| **Toluene** | **0.39** | **J** | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Trichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Trichlorofluoromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| **1,2,4-Trimethylbenzene** | **0.40** | **J** | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 10:41 | 1 |
| **Xylenes, Total** | **1.2** | | 1.0 | 0.50 | ug/L | | | 04/28/15 10:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* | | *04/28/15 10:41* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *76 - 132* | | *04/28/15 10:41* | *1* |
| *Toluene-d8 (Surr)* | *105* | | *80 - 128* | | *04/28/15 10:41* | *1* |

# Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## Client Sample ID: W044

**Date Collected: 04/22/15 13:15**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-3

**Matrix: Water**

### Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **0.49** | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:47 | 1 |
| Acenaphthylene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:47 | 1 |
| Anthracene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:47 | 1 |
| Benzo[a]anthracene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:47 | 1 |
| Benzo[a]pyrene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:47 | 1 |
| Benzo[b]fluoranthene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:47 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:47 | 1 |
| Benzo[k]fluoranthene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:47 | 1 |
| Chrysene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:47 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:47 | 1 |
| Fluoranthene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:47 | 1 |
| **Fluorene** | **0.50** | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:47 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:47 | 1 |
| Naphthalene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:47 | 1 |
| **Phenanthrene** | **0.29** | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:47 | 1 |
| Pyrene | ND | | 0.19 | 0.097 | ug/L | | 04/26/15 13:54 | 04/28/15 00:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *70* | | *31 - 120* | *04/26/15 13:54* | *04/28/15 00:47* | *1* |
| *Nitrobenzene-d5* | *60* | | *25 - 133* | *04/26/15 13:54* | *04/28/15 00:47* | *1* |
| *Terphenyl-d14* | *102* | | *10 - 120* | *04/26/15 13:54* | *04/28/15 00:47* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC) Low Level

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C29-C40** | **0.15** | | 0.048 | 0.024 | mg/L | | 04/24/15 08:21 | 04/27/15 13:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *57* | | *45 - 120* | *04/24/15 08:21* | *04/27/15 13:47* | *1* |

### Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Bromide** | **1.1** | | 0.50 | 0.25 | mg/L | | | 04/23/15 19:51 | 1 |
| Nitrate as NO3 | ND | | 0.50 | 0.25 | mg/L | | | 04/23/15 19:51 | 1 |
| **Chloride** | **110** | | 5.0 | 2.5 | mg/L | | | 04/23/15 20:05 | 10 |
| **Fluoride** | **0.91** | | 0.50 | 0.25 | mg/L | | | 04/23/15 19:51 | 1 |
| **Sulfate** | **1.9** | | 0.50 | 0.25 | mg/L | | | 04/23/15 19:51 | 1 |

### Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Boron** | **0.72** | **HF** | 0.050 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:13 | 1 |
| **Calcium** | **25** | **HF** | 0.10 | 0.050 | mg/L | | 04/29/15 07:45 | 04/29/15 14:13 | 1 |
| **Iron** | **2.1** | **HF** | 0.040 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:13 | 1 |
| **Lithium** | **0.044** | **J HF** | 0.50 | 0.025 | mg/L | | 04/29/15 07:45 | 04/29/15 14:13 | 1 |
| **Magnesium** | **4.6** | **HF** | 0.020 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:13 | 1 |
| **Manganese** | **0.084** | **HF** | 0.020 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:13 | 1 |
| **Potassium** | **5.5** | **HF** | 0.50 | 0.25 | mg/L | | 04/29/15 07:45 | 04/29/15 14:13 | 1 |
| **Sodium** | **120** | **HF** | 0.50 | 0.25 | mg/L | | 04/29/15 07:45 | 04/29/15 14:13 | 1 |
| **Strontium** | **0.39** | **HF** | 0.020 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:13 | 1 |

# Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## Client Sample ID: W044

**Date Collected: 04/22/15 13:15**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-3

**Matrix: Water**

### Method: 200.8 - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Uranium | ND | HF | 1.0 | 0.50 | ug/L | | 04/29/15 07:48 | 04/29/15 14:47 | 1 |

### Method: 6010B - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Antimony** | **0.013** | **B** | 0.010 | 0.0060 | mg/L | | 04/29/15 07:50 | 04/29/15 15:53 | 1 |
| **Arsenic** | **0.014** | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:02 | 1 |
| **Barium** | **0.094** | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:02 | 1 |
| Beryllium | ND | | 0.0020 | 0.0010 | mg/L | | 04/29/15 07:50 | 04/29/15 14:02 | 1 |
| Cadmium | ND | | 0.0050 | 0.0020 | mg/L | | 04/29/15 07:50 | 04/29/15 14:02 | 1 |
| Chromium | ND | | 0.0050 | 0.0025 | mg/L | | 04/29/15 07:50 | 04/29/15 14:02 | 1 |
| Cobalt | ND | | 0.010 | 0.0025 | mg/L | | 04/29/15 07:50 | 04/29/15 14:02 | 1 |
| Copper | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:02 | 1 |
| Lead | ND | | 0.0050 | 0.0025 | mg/L | | 04/29/15 07:50 | 04/29/15 14:02 | 1 |
| Molybdenum | ND | | 0.020 | 0.010 | mg/L | | 04/29/15 07:50 | 04/29/15 14:02 | 1 |
| Nickel | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:02 | 1 |
| Selenium | ND | | 0.010 | 0.0061 | mg/L | | 04/29/15 07:50 | 04/29/15 14:02 | 1 |
| Silver | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:02 | 1 |
| **Thallium** | **0.0091** | **J** | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:02 | 1 |
| Vanadium | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:02 | 1 |
| Zinc | ND | | 0.020 | 0.010 | mg/L | | 04/29/15 07:50 | 04/29/15 14:02 | 1 |

### Method: 6010B - Metals (ICP) - STLC Citrate

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 0.20 | 0.12 | mg/L | | | 04/28/15 11:27 | 20 |
| Arsenic | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:27 | 20 |
| **Barium** | **0.10** | **J** | 0.20 | 0.10 | mg/L | | | 04/28/15 11:27 | 20 |
| Beryllium | ND | | 0.040 | 0.020 | mg/L | | | 04/28/15 11:27 | 20 |
| Cadmium | ND | | 0.10 | 0.040 | mg/L | | | 04/28/15 11:27 | 20 |
| Chromium | ND | | 0.10 | 0.050 | mg/L | | | 04/28/15 11:27 | 20 |
| Cobalt | ND | | 0.20 | 0.050 | mg/L | | | 04/28/15 11:27 | 20 |
| Copper | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:27 | 20 |
| Lead | ND | | 0.10 | 0.050 | mg/L | | | 04/28/15 11:27 | 20 |
| Molybdenum | ND | | 0.40 | 0.20 | mg/L | | | 04/28/15 11:27 | 20 |
| Nickel | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:27 | 20 |
| Selenium | ND | | 0.20 | 0.12 | mg/L | | | 04/28/15 11:27 | 20 |
| Silver | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:27 | 20 |
| Thallium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:27 | 20 |
| Vanadium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:27 | 20 |
| Zinc | ND | | 0.40 | 0.20 | mg/L | | | 04/28/15 11:27 | 20 |

### Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.00010 | mg/L | | 04/24/15 15:01 | 04/25/15 02:42 | 1 |

### Method: 7470A - Mercury (CVAA) - STLC Citrate

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0020 | 0.0010 | mg/L | | 04/27/15 17:39 | 04/28/15 17:03 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **210** | | 4.0 | 4.0 | mg/L | | | 04/24/15 06:54 | 1 |

## Client Sample ID: W044

**Lab Sample ID: 440-107892-3**

**Date Collected: 04/22/15 13:15**
**Matrix: Water**
**Date Received: 04/23/15 09:35**

### General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Bicarbonate Alkalinity as CaCO3** | **210** | | 4.0 | 4.0 | mg/L | | | 04/24/15 06:54 | 1 |
| Carbonate Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/24/15 06:54 | 1 |
| Hydroxide Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/24/15 06:54 | 1 |
| **Total Dissolved Solids** | **500** | | 10 | 5.0 | mg/L | | | 04/28/15 08:13 | 1 |

## Client Sample ID: W045

**Lab Sample ID: 440-107892-4**

**Date Collected: 04/22/15 14:10**
**Matrix: Water**
**Date Received: 04/23/15 09:35**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acetone** | **50** | | 10 | 4.5 | ug/L | | | 04/28/15 11:11 | 1 |
| Benzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Bromobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Bromochloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Bromoform | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 11:11 | 1 |
| Bromomethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.5 | ug/L | | | 04/28/15 11:11 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Chloroethane | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 11:11 | 1 |
| Chloroform | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Chloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.50 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Dibromomethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,3-Dichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Ethanol | ND | | 150 | 75 | ug/L | | | 04/28/15 11:11 | 1 |
| Ethylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.5 | ug/L | | | 04/28/15 11:11 | 1 |
| Isopropylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Isopropyl Ether (DIPE) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Methylene Chloride | ND | | 2.0 | 0.88 | ug/L | | | 04/28/15 11:11 | 1 |

## Client Sample ID: W045

**Date Collected: 04/22/15 14:10**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-4

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.5 | ug/L | | | 04/28/15 11:11 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| m,p-Xylene | ND | | 1.0 | 0.50 | ug/L | | | 04/28/15 11:11 | 1 |
| Naphthalene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 11:11 | 1 |
| n-Butylbenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 11:11 | 1 |
| n-Propylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| o-Xylene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| p-Isopropyltoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| sec-Butylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Styrene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Tert-amyl-methyl ether (TAME) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 10 | 5.0 | ug/L | | | 04/28/15 11:11 | 1 |
| tert-Butylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Toluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Trichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Trichlorofluoromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 11:11 | 1 |
| Xylenes, Total | ND | | 1.0 | 0.50 | ug/L | | | 04/28/15 11:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *80 - 120* | | *04/28/15 11:11* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *76 - 132* | | *04/28/15 11:11* | *1* |
| *Toluene-d8 (Surr)* | *106* | | *80 - 128* | | *04/28/15 11:11* | *1* |

### Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 0.19 | 0.096 | ug/L | | 04/26/15 13:54 | 04/28/15 01:08 | 1 |
| Acenaphthylene | ND | | 0.19 | 0.096 | ug/L | | 04/26/15 13:54 | 04/28/15 01:08 | 1 |
| Anthracene | ND | | 0.19 | 0.096 | ug/L | | 04/26/15 13:54 | 04/28/15 01:08 | 1 |
| Benzo[a]anthracene | ND | | 0.19 | 0.096 | ug/L | | 04/26/15 13:54 | 04/28/15 01:08 | 1 |
| Benzo[a]pyrene | ND | | 0.19 | 0.096 | ug/L | | 04/26/15 13:54 | 04/28/15 01:08 | 1 |
| Benzo[b]fluoranthene | ND | | 0.19 | 0.096 | ug/L | | 04/26/15 13:54 | 04/28/15 01:08 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.19 | 0.096 | ug/L | | 04/26/15 13:54 | 04/28/15 01:08 | 1 |
| Benzo[k]fluoranthene | ND | | 0.19 | 0.096 | ug/L | | 04/26/15 13:54 | 04/28/15 01:08 | 1 |
| Chrysene | ND | | 0.19 | 0.096 | ug/L | | 04/26/15 13:54 | 04/28/15 01:08 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.19 | 0.096 | ug/L | | 04/26/15 13:54 | 04/28/15 01:08 | 1 |
| Fluoranthene | ND | | 0.19 | 0.096 | ug/L | | 04/26/15 13:54 | 04/28/15 01:08 | 1 |
| Fluorene | ND | | 0.19 | 0.096 | ug/L | | 04/26/15 13:54 | 04/28/15 01:08 | 1 |

## Client Sample ID: W045

**Date Collected: 04/22/15 14:10**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-4

**Matrix: Water**

### Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Indeno[1,2,3-cd]pyrene | ND | | 0.19 | 0.096 | ug/L | | 04/26/15 13:54 | 04/28/15 01:08 | 1 |
| Naphthalene | ND | | 0.19 | 0.096 | ug/L | | 04/26/15 13:54 | 04/28/15 01:08 | 1 |
| Phenanthrene | ND | | 0.19 | 0.096 | ug/L | | 04/26/15 13:54 | 04/28/15 01:08 | 1 |
| Pyrene | ND | | 0.19 | 0.096 | ug/L | | 04/26/15 13:54 | 04/28/15 01:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *65* | | *31 - 120* | *04/26/15 13:54* | *04/28/15 01:08* | *1* |
| *Nitrobenzene-d5* | *54* | | *25 - 133* | *04/26/15 13:54* | *04/28/15 01:08* | *1* |
| *Terphenyl-d14* | *110* | | *10 - 120* | *04/26/15 13:54* | *04/28/15 01:08* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC) Low Level

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **C29-C40** | **0.080** | | 0.048 | 0.024 | mg/L | | 04/24/15 08:21 | 04/27/15 14:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *78* | | *45 - 120* | *04/24/15 08:21* | *04/27/15 14:07* | *1* |

### Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Bromide** | **0.79** | | 0.50 | 0.25 | mg/L | | | 04/23/15 20:20 | 1 |
| Nitrate as NO3 | ND | | 0.50 | 0.25 | mg/L | | | 04/23/15 20:20 | 1 |
| **Chloride** | **98** | | 5.0 | 2.5 | mg/L | | | 04/23/15 20:35 | 10 |
| **Fluoride** | **0.91** | | 0.50 | 0.25 | mg/L | | | 04/23/15 20:20 | 1 |
| **Sulfate** | **6.4** | | 0.50 | 0.25 | mg/L | | | 04/23/15 20:20 | 1 |

### Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Boron** | **0.71** | **HF** | 0.050 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:15 | 1 |
| **Calcium** | **22** | **HF** | 0.10 | 0.050 | mg/L | | 04/29/15 07:45 | 04/29/15 14:15 | 1 |
| **Iron** | **1.2** | **HF** | 0.040 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:15 | 1 |
| **Lithium** | **0.045** | **J HF** | 0.50 | 0.025 | mg/L | | 04/29/15 07:45 | 04/29/15 14:15 | 1 |
| **Magnesium** | **4.1** | **HF** | 0.020 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:15 | 1 |
| **Manganese** | **0.072** | **HF** | 0.020 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:15 | 1 |
| **Potassium** | **4.8** | **HF** | 0.50 | 0.25 | mg/L | | 04/29/15 07:45 | 04/29/15 14:15 | 1 |
| **Sodium** | **120** | **HF** | 0.50 | 0.25 | mg/L | | 04/29/15 07:45 | 04/29/15 14:15 | 1 |
| **Strontium** | **0.34** | **HF** | 0.020 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 14:15 | 1 |

### Method: 200.8 - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Uranium | ND | HF | 1.0 | 0.50 | ug/L | | 04/29/15 07:48 | 04/29/15 14:50 | 1 |

### Method: 6010B - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Antimony** | **0.011** | **B** | 0.010 | 0.0060 | mg/L | | 04/29/15 07:50 | 04/29/15 14:15 | 1 |
| **Arsenic** | **0.011** | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:15 | 1 |
| **Barium** | **0.081** | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:15 | 1 |
| Beryllium | ND | | 0.0020 | 0.0010 | mg/L | | 04/29/15 07:50 | 04/29/15 14:15 | 1 |
| Cadmium | ND | | 0.0050 | 0.0020 | mg/L | | 04/29/15 07:50 | 04/29/15 14:15 | 1 |
| Chromium | ND | | 0.0050 | 0.0025 | mg/L | | 04/29/15 07:50 | 04/29/15 14:15 | 1 |
| Cobalt | ND | | 0.010 | 0.0025 | mg/L | | 04/29/15 07:50 | 04/29/15 14:15 | 1 |
| Copper | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:15 | 1 |

# Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## Client Sample ID: W045

**Date Collected: 04/22/15 14:10**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-4

**Matrix: Water**

### Method: 6010B - Metals (ICP) - Dissolved (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | | 0.0050 | 0.0025 | mg/L | | 04/29/15 07:50 | 04/29/15 14:15 | 1 |
| Molybdenum | ND | | 0.020 | 0.010 | mg/L | | 04/29/15 07:50 | 04/29/15 14:15 | 1 |
| Nickel | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:15 | 1 |
| Selenium | ND | | 0.010 | 0.0061 | mg/L | | 04/29/15 07:50 | 04/29/15 14:15 | 1 |
| Silver | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:15 | 1 |
| **Thallium** | **0.0085** | **J** | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:15 | 1 |
| Vanadium | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 14:15 | 1 |
| Zinc | ND | | 0.020 | 0.010 | mg/L | | 04/29/15 07:50 | 04/29/15 14:15 | 1 |

### Method: 6010B - Metals (ICP) - STLC Citrate

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 0.20 | 0.12 | mg/L | | | 04/28/15 11:30 | 20 |
| Arsenic | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:30 | 20 |
| Barium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:30 | 20 |
| Beryllium | ND | | 0.040 | 0.020 | mg/L | | | 04/28/15 11:30 | 20 |
| Cadmium | ND | | 0.10 | 0.040 | mg/L | | | 04/28/15 11:30 | 20 |
| Chromium | ND | | 0.10 | 0.050 | mg/L | | | 04/28/15 11:30 | 20 |
| Cobalt | ND | | 0.20 | 0.050 | mg/L | | | 04/28/15 11:30 | 20 |
| Copper | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:30 | 20 |
| Lead | ND | | 0.10 | 0.050 | mg/L | | | 04/28/15 11:30 | 20 |
| Molybdenum | ND | | 0.40 | 0.20 | mg/L | | | 04/28/15 11:30 | 20 |
| Nickel | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:30 | 20 |
| Selenium | ND | | 0.20 | 0.12 | mg/L | | | 04/28/15 11:30 | 20 |
| Silver | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:30 | 20 |
| Thallium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:30 | 20 |
| Vanadium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:30 | 20 |
| Zinc | ND | | 0.40 | 0.20 | mg/L | | | 04/28/15 11:30 | 20 |

### Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.00010 | mg/L | | 04/24/15 15:01 | 04/25/15 02:45 | 1 |

### Method: 7470A - Mercury (CVAA) - STLC Citrate

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0020 | 0.0010 | mg/L | | 04/27/15 17:39 | 04/28/15 17:06 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **220** | | 4.0 | 4.0 | mg/L | | | 04/24/15 07:01 | 1 |
| **Bicarbonate Alkalinity as CaCO3** | **220** | | 4.0 | 4.0 | mg/L | | | 04/24/15 07:01 | 1 |
| Carbonate Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/24/15 07:01 | 1 |
| Hydroxide Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/24/15 07:01 | 1 |
| **Total Dissolved Solids** | **500** | | 10 | 5.0 | mg/L | | | 04/28/15 08:13 | 1 |

# Method Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL IRV |
| 8270C SIM | Semivolatile Organic Compounds (GC/MS SIM) | SW846 | TAL IRV |
| 8015B | Diesel Range Organics (DRO) (GC) Low Level | SW846 | TAL IRV |
| 300.0 | Anions, Ion Chromatography | MCAWW | TAL IRV |
| 200.7 Rev 4.4 | Metals (ICP) | EPA | TAL IRV |
| 200.8 | Metals (ICP/MS) | EPA | TAL IRV |
| 6010B | Metals (ICP) | SW846 | TAL IRV |
| 7470A | Mercury (CVAA) | SW846 | TAL IRV |
| SM 2320B | Alkalinity | SM | TAL IRV |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL IRV |

**Protocol References:**

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
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: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## Client Sample ID: W042

**Date Collected: 04/22/15 11:00**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-1

**Matrix: Water**

| 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 | 251420 | 04/28/15 04:41 | WK | TAL IRV |
| Total/NA | Prep | 3520C | | | 1030 mL | 1 mL | 251224 | 04/26/15 13:54 | AK | TAL IRV |
| Total/NA | Analysis | 8270C SIM | | 1 | 1030 mL | 1 mL | 251421 | 04/28/15 00:06 | AI | TAL IRV |
| Total/NA | Prep | 3510C | | | 1040 mL | 1 mL | 250952 | 04/24/15 08:21 | AP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 1040 mL | 1 mL | 251257 | 04/27/15 13:08 | KW | TAL IRV |
| Total/NA | Analysis | 300.0 | | 1 | 5 mL | | 250684 | 04/23/15 18:22 | NN | TAL IRV |
| Total/NA | Analysis | 300.0 | | 1 | 5 mL | | 250685 | 04/23/15 18:22 | NN | TAL IRV |
| Total/NA | Analysis | 300.0 | | 10 | 5 mL | | 250685 | 04/23/15 18:37 | NN | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 200.2 | | | 25 mL | 25 mL | 251794 | 04/29/15 07:45 | APS | TAL IRV |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | 25 mL | 25 mL | 251932 | 04/29/15 14:04 | EN | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 200.2 | | | 25 mL | 25 mL | 251795 | 04/29/15 07:48 | APS | TAL IRV |
| Dissolved | Analysis | 200.8 | | 1 | 25 mL | 25 mL | 251942 | 04/29/15 14:45 | YS | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 3005A | | | 25 mL | 25 mL | 251796 | 04/29/15 07:50 | APS | TAL IRV |
| Dissolved | Analysis | 6010B | | 1 | 25 mL | 25 mL | 251945 | 04/29/15 14:10 | TK | TAL IRV |
| STLC Citrate | Leach | CA WET Citrate | | | 100 g | 100 mL | 251242 | 04/26/15 23:13 | CH | TAL IRV |
| STLC Citrate | Analysis | 6010B | | 20 | | | 251585 | 04/28/15 11:22 | VS | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 7470A | | | 20 mL | 20 mL | 251070 | 04/24/15 15:01 | DB | TAL IRV |
| Dissolved | Analysis | 7470A | | 1 | 20 mL | 20 mL | 251338 | 04/25/15 02:28 | DB | TAL IRV |
| STLC Citrate | Leach | CA WET Citrate | | | 100 g | 100 mL | 251242 | 04/26/15 23:13 | CH | TAL IRV |
| STLC Citrate | Prep | 7470A | | | 2 mL | 20 mL | 251449 | 04/27/15 17:39 | DB | TAL IRV |
| STLC Citrate | Analysis | 7470A | | 1 | 2 mL | 20 mL | 251694 | 04/28/15 16:53 | DB | TAL IRV |
| Total/NA | Analysis | SM 2320B | | 1 | | | 250933 | 04/24/15 06:37 | YZ | TAL IRV |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 251526 | 04/28/15 08:13 | XL | TAL IRV |

## Client Sample ID: W043

**Date Collected: 04/22/15 11:35**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-2

**Matrix: Water**

| 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 | 251505 | 04/28/15 10:11 | MM1 | TAL IRV |
| Total/NA | Prep | 3520C | | | 1035 mL | 1 mL | 251224 | 04/26/15 13:54 | AK | TAL IRV |
| Total/NA | Analysis | 8270C SIM | | 1 | 1035 mL | 1 mL | 251421 | 04/28/15 00:27 | AI | TAL IRV |
| Total/NA | Prep | 3510C | | | 1040 mL | 1 mL | 250952 | 04/24/15 08:21 | AP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 1040 mL | 1 mL | 251257 | 04/27/15 13:28 | KW | TAL IRV |
| Total/NA | Analysis | 300.0 | | 1 | 5 mL | | 250684 | 04/23/15 18:51 | NN | TAL IRV |
| Total/NA | Analysis | 300.0 | | 1 | 5 mL | | 250685 | 04/23/15 18:51 | NN | TAL IRV |
| Total/NA | Analysis | 300.0 | DL | 10 | 5 mL | | 250684 | 04/23/15 19:06 | NN | TAL IRV |
| Total/NA | Analysis | 300.0 | DL | 10 | 5 mL | | 250685 | 04/23/15 19:06 | NN | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |

# Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## Client Sample ID: W043

**Date Collected: 04/22/15 11:35**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-2

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved | Prep | 200.2 | | | 25 mL | 25 mL | 251794 | 04/29/15 07:45 | APS | TAL IRV |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | 25 mL | 25 mL | 251932 | 04/29/15 14:11 | EN | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 200.2 | | | 25 mL | 25 mL | 251795 | 04/29/15 07:48 | APS | TAL IRV |
| Dissolved | Analysis | 200.8 | | 1 | 25 mL | 25 mL | 251942 | 04/29/15 14:38 | YS | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 3005A | | | 25 mL | 25 mL | 251796 | 04/29/15 07:50 | APS | TAL IRV |
| Dissolved | Analysis | 6010B | | 1 | 25 mL | 25 mL | 251945 | 04/29/15 14:13 | TK | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 3005A | | | 25 mL | 25 mL | 251796 | 04/29/15 07:50 | APS | TAL IRV |
| Dissolved | Analysis | 6010B | | 1 | 25 mL | 25 mL | 251957 | 04/29/15 15:48 | TK | TAL IRV |
| STLC Citrate | Leach | CA WET Citrate | | | 100 g | 100 mL | 251242 | 04/26/15 23:13 | CH | TAL IRV |
| STLC Citrate | Analysis | 6010B | | 20 | | | 251585 | 04/28/15 11:25 | VS | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 7470A | | | 20 mL | 20 mL | 251070 | 04/24/15 15:01 | DB | TAL IRV |
| Dissolved | Analysis | 7470A | | 1 | 20 mL | 20 mL | 251338 | 04/25/15 02:35 | DB | TAL IRV |
| STLC Citrate | Leach | CA WET Citrate | | | 100 g | 100 mL | 251242 | 04/26/15 23:13 | CH | TAL IRV |
| STLC Citrate | Prep | 7470A | | | 2 mL | 20 mL | 251449 | 04/27/15 17:39 | DB | TAL IRV |
| STLC Citrate | Analysis | 7470A | | 1 | 2 mL | 20 mL | 251694 | 04/28/15 17:01 | DB | TAL IRV |
| Total/NA | Analysis | SM 2320B | | 1 | | | 250933 | 04/24/15 06:44 | YZ | TAL IRV |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 251526 | 04/28/15 08:13 | XL | TAL IRV |

## Client Sample ID: W044

**Date Collected: 04/22/15 13:15**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-3

**Matrix: Water**

| 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 | 251505 | 04/28/15 10:41 | MM1 | TAL IRV |
| Total/NA | Prep | 3520C | | | 1035 mL | 1 mL | 251224 | 04/26/15 13:54 | AK | TAL IRV |
| Total/NA | Analysis | 8270C SIM | | 1 | 1035 mL | 1 mL | 251421 | 04/28/15 00:47 | AI | TAL IRV |
| Total/NA | Prep | 3510C | | | 1040 mL | 1 mL | 250952 | 04/24/15 08:21 | AP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 1040 mL | 1 mL | 251257 | 04/27/15 13:47 | KW | TAL IRV |
| Total/NA | Analysis | 300.0 | | 1 | 5 mL | | 250684 | 04/23/15 19:51 | NN | TAL IRV |
| Total/NA | Analysis | 300.0 | | 1 | 5 mL | | 250685 | 04/23/15 19:51 | NN | TAL IRV |
| Total/NA | Analysis | 300.0 | | 10 | 5 mL | | 250685 | 04/23/15 20:05 | NN | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 200.2 | | | 25 mL | 25 mL | 251794 | 04/29/15 07:45 | APS | TAL IRV |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | 25 mL | 25 mL | 251932 | 04/29/15 14:13 | EN | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 200.2 | | | 25 mL | 25 mL | 251795 | 04/29/15 07:48 | APS | TAL IRV |
| Dissolved | Analysis | 200.8 | | 1 | 25 mL | 25 mL | 251942 | 04/29/15 14:47 | YS | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 3005A | | | 25 mL | 25 mL | 251796 | 04/29/15 07:50 | APS | TAL IRV |
| Dissolved | Analysis | 6010B | | 1 | 25 mL | 25 mL | 251945 | 04/29/15 14:02 | TK | TAL IRV |

# Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## Client Sample ID: W044

**Date Collected: 04/22/15 13:15**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-3

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 3005A | | | 25 mL | 25 mL | 251796 | 04/29/15 07:50 | APS | TAL IRV |
| Dissolved | Analysis | 6010B | | 1 | 25 mL | 25 mL | 251957 | 04/29/15 15:53 | TK | TAL IRV |
| STLC Citrate | Leach | CA WET Citrate | | | 100 g | 100 mL | 251242 | 04/26/15 23:13 | CH | TAL IRV |
| STLC Citrate | Analysis | 6010B | | 20 | | | 251585 | 04/28/15 11:27 | VS | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 7470A | | | 20 mL | 20 mL | 251070 | 04/24/15 15:01 | DB | TAL IRV |
| Dissolved | Analysis | 7470A | | 1 | 20 mL | 20 mL | 251338 | 04/25/15 02:42 | DB | TAL IRV |
| STLC Citrate | Leach | CA WET Citrate | | | 100 g | 100 mL | 251242 | 04/26/15 23:13 | CH | TAL IRV |
| STLC Citrate | Prep | 7470A | | | 2 mL | 20 mL | 251449 | 04/27/15 17:39 | DB | TAL IRV |
| STLC Citrate | Analysis | 7470A | | 1 | 2 mL | 20 mL | 251694 | 04/28/15 17:03 | DB | TAL IRV |
| Total/NA | Analysis | SM 2320B | | 1 | | | 250933 | 04/24/15 06:54 | YZ | TAL IRV |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 251526 | 04/28/15 08:13 | XL | TAL IRV |

## Client Sample ID: W045

**Date Collected: 04/22/15 14:10**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-4

**Matrix: Water**

| 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 | 251505 | 04/28/15 11:11 | MM1 | TAL IRV |
| Total/NA | Prep | 3520C | | | 1045 mL | 1 mL | 251224 | 04/26/15 13:54 | AK | TAL IRV |
| Total/NA | Analysis | 8270C SIM | | 1 | 1045 mL | 1 mL | 251421 | 04/28/15 01:08 | AI | TAL IRV |
| Total/NA | Prep | 3510C | | | 1040 mL | 1 mL | 250952 | 04/24/15 08:21 | AP | TAL IRV |
| Total/NA | Analysis | 8015B | | 1 | 1040 mL | 1 mL | 251257 | 04/27/15 14:07 | KW | TAL IRV |
| Total/NA | Analysis | 300.0 | | 1 | 5 mL | | 250684 | 04/23/15 20:20 | NN | TAL IRV |
| Total/NA | Analysis | 300.0 | | 1 | 5 mL | | 250685 | 04/23/15 20:20 | NN | TAL IRV |
| Total/NA | Analysis | 300.0 | | 10 | 5 mL | | 250685 | 04/23/15 20:35 | NN | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 200.2 | | | 25 mL | 25 mL | 251794 | 04/29/15 07:45 | APS | TAL IRV |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | 25 mL | 25 mL | 251932 | 04/29/15 14:15 | EN | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 200.2 | | | 25 mL | 25 mL | 251795 | 04/29/15 07:48 | APS | TAL IRV |
| Dissolved | Analysis | 200.8 | | 1 | 25 mL | 25 mL | 251942 | 04/29/15 14:50 | YS | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 3005A | | | 25 mL | 25 mL | 251796 | 04/29/15 07:50 | APS | TAL IRV |
| Dissolved | Analysis | 6010B | | 1 | 25 mL | 25 mL | 251945 | 04/29/15 14:15 | TK | TAL IRV |
| STLC Citrate | Leach | CA WET Citrate | | | 100 g | 100 mL | 251242 | 04/26/15 23:13 | CH | TAL IRV |
| STLC Citrate | Analysis | 6010B | | 20 | | | 251585 | 04/28/15 11:30 | VS | TAL IRV |
| Dissolved | Filtration | FILTRATION | | | 250 mL | 250 mL | 250948 | 04/24/15 08:12 | EN | TAL IRV |
| Dissolved | Prep | 7470A | | | 20 mL | 20 mL | 251070 | 04/24/15 15:01 | DB | TAL IRV |
| Dissolved | Analysis | 7470A | | 1 | 20 mL | 20 mL | 251338 | 04/25/15 02:45 | DB | TAL IRV |
| STLC Citrate | Leach | CA WET Citrate | | | 100 g | 100 mL | 251242 | 04/26/15 23:13 | CH | TAL IRV |
| STLC Citrate | Prep | 7470A | | | 2 mL | 20 mL | 251449 | 04/27/15 17:39 | DB | TAL IRV |
| STLC Citrate | Analysis | 7470A | | 1 | 2 mL | 20 mL | 251694 | 04/28/15 17:06 | DB | TAL IRV |

# Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## Client Sample ID: W045

**Date Collected: 04/22/15 14:10**
**Date Received: 04/23/15 09:35**

## Lab Sample ID: 440-107892-4

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | SM 2320B | | 1 | | | 250933 | 04/24/15 07:01 | YZ | TAL IRV |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 251526 | 04/28/15 08:13 | XL | 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 440-251420/4**
**Matrix: Water**
**Analysis Batch: 251420**

**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 | | | 04/27/15 18:55 | 1 |
| Benzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Bromobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Bromochloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Bromoform | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 18:55 | 1 |
| Bromomethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.5 | ug/L | | | 04/27/15 18:55 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Chloroethane | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 18:55 | 1 |
| Chloroform | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Chloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.50 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Dibromomethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,3-Dichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Ethanol | ND | | 150 | 75 | ug/L | | | 04/27/15 18:55 | 1 |
| Ethylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.5 | ug/L | | | 04/27/15 18:55 | 1 |
| Isopropylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Isopropyl Ether (DIPE) | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Methylene Chloride | ND | | 2.0 | 0.88 | ug/L | | | 04/27/15 18:55 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.5 | ug/L | | | 04/27/15 18:55 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| m,p-Xylene | ND | | 1.0 | 0.50 | ug/L | | | 04/27/15 18:55 | 1 |
| Naphthalene | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 18:55 | 1 |
| n-Butylbenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 18:55 | 1 |
| n-Propylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| o-Xylene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| p-Isopropyltoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| sec-Butylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 440-251420/4**
**Matrix: Water**
**Analysis Batch: 251420**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Styrene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Tert-amyl-methyl ether (TAME) | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 10 | 5.0 | ug/L | | | 04/27/15 18:55 | 1 |
| tert-Butylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Toluene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Trichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Trichlorofluoromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Vinyl chloride | ND | | 0.50 | 0.25 | ug/L | | | 04/27/15 18:55 | 1 |
| Xylenes, Total | ND | | 1.0 | 0.50 | ug/L | | | 04/27/15 18:55 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* | | *04/27/15 18:55* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *76 - 132* | | *04/27/15 18:55* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 128* | | *04/27/15 18:55* | *1* |

**Lab Sample ID: LCS 440-251420/5**
**Matrix: Water**
**Analysis Batch: 251420**

**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 | 23.2 | | ug/L | | 93 | 10 - 150 |
| Benzene | 25.0 | 23.3 | | ug/L | | 93 | 68 - 130 |
| Bromobenzene | 25.0 | 23.5 | | ug/L | | 94 | 70 - 130 |
| Bromochloromethane | 25.0 | 25.1 | | ug/L | | 100 | 70 - 130 |
| Bromodichloromethane | 25.0 | 23.7 | | ug/L | | 95 | 70 - 132 |
| Bromoform | 25.0 | 21.5 | | ug/L | | 86 | 60 - 148 |
| Bromomethane | 25.0 | 22.3 | | ug/L | | 89 | 64 - 139 |
| 2-Butanone (MEK) | 25.0 | 25.2 | | ug/L | | 101 | 44 - 150 |
| Carbon tetrachloride | 25.0 | 23.0 | | ug/L | | 92 | 60 - 150 |
| Chlorobenzene | 25.0 | 22.7 | | ug/L | | 91 | 70 - 130 |
| Chloroethane | 25.0 | 20.9 | | ug/L | | 83 | 64 - 135 |
| Chloroform | 25.0 | 24.1 | | ug/L | | 96 | 70 - 130 |
| Chloromethane | 25.0 | 20.9 | | ug/L | | 84 | 47 - 140 |
| 2-Chlorotoluene | 25.0 | 22.9 | | ug/L | | 92 | 70 - 130 |
| 4-Chlorotoluene | 25.0 | 23.4 | | ug/L | | 94 | 70 - 130 |
| cis-1,2-Dichloroethene | 25.0 | 25.0 | | ug/L | | 100 | 70 - 133 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 440-251420/5**
**Matrix: Water**
**Analysis Batch: 251420**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 25.0 | 24.1 | | ug/L | | 97 | 70 - 133 |
| Dibromochloromethane | 25.0 | 23.0 | | ug/L | | 92 | 69 - 145 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 20.3 | | ug/L | | 81 | 52 - 140 |
| 1,2-Dibromoethane (EDB) | 25.0 | 22.5 | | ug/L | | 90 | 70 - 130 |
| Dibromomethane | 25.0 | 23.7 | | ug/L | | 95 | 70 - 130 |
| 1,3-Dichlorobenzene | 25.0 | 23.4 | | ug/L | | 94 | 70 - 130 |
| 1,2-Dichlorobenzene | 25.0 | 23.1 | | ug/L | | 92 | 70 - 130 |
| 1,4-Dichlorobenzene | 25.0 | 23.1 | | ug/L | | 92 | 70 - 130 |
| Dichlorodifluoromethane | 25.0 | 15.7 | | ug/L | | 63 | 29 - 150 |
| 1,1-Dichloroethane | 25.0 | 23.4 | | ug/L | | 94 | 64 - 130 |
| 1,2-Dichloroethane | 25.0 | 25.4 | | ug/L | | 102 | 57 - 138 |
| 1,1-Dichloroethene | 25.0 | 23.0 | | ug/L | | 92 | 70 - 130 |
| 1,2-Dichloropropane | 25.0 | 24.5 | | ug/L | | 98 | 67 - 130 |
| 2,2-Dichloropropane | 25.0 | 22.2 | | ug/L | | 89 | 68 - 141 |
| 1,3-Dichloropropane | 25.0 | 22.2 | | ug/L | | 89 | 70 - 130 |
| 1,1-Dichloropropene | 25.0 | 23.4 | | ug/L | | 94 | 70 - 130 |
| Ethanol | 1250 | 1320 | | ug/L | | 106 | 50 - 149 |
| Ethylbenzene | 25.0 | 22.2 | | ug/L | | 89 | 70 - 130 |
| Ethyl-t-butyl ether (ETBE) | 25.0 | 26.3 | | ug/L | | 105 | 60 - 136 |
| 2-Hexanone | 25.0 | 23.8 | | ug/L | | 95 | 10 - 150 |
| Isopropylbenzene | 25.0 | 22.1 | | ug/L | | 88 | 70 - 136 |
| Isopropyl Ether (DIPE) | 25.0 | 26.8 | | ug/L | | 107 | 58 - 139 |
| Methylene Chloride | 25.0 | 24.1 | | ug/L | | 96 | 52 - 130 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 23.7 | | ug/L | | 95 | 59 - 149 |
| Methyl-t-Butyl Ether (MTBE) | 25.0 | 23.1 | | ug/L | | 92 | 63 - 131 |
| m,p-Xylene | 25.0 | 22.8 | | ug/L | | 91 | 70 - 130 |
| Naphthalene | 25.0 | 23.0 | | ug/L | | 92 | 60 - 140 |
| n-Butylbenzene | 25.0 | 22.7 | | ug/L | | 91 | 65 - 150 |
| n-Propylbenzene | 25.0 | 22.0 | | ug/L | | 88 | 67 - 139 |
| o-Xylene | 25.0 | 22.8 | | ug/L | | 91 | 70 - 130 |
| p-Isopropyltoluene | 25.0 | 22.6 | | ug/L | | 91 | 70 - 132 |
| sec-Butylbenzene | 25.0 | 22.0 | | ug/L | | 88 | 70 - 138 |
| Styrene | 25.0 | 24.1 | | ug/L | | 96 | 70 - 134 |
| Tert-amyl-methyl ether (TAME) | 25.0 | 23.1 | | ug/L | | 92 | 57 - 139 |
| tert-Butyl alcohol (TBA) | 250 | 248 | | ug/L | | 99 | 70 - 130 |
| tert-Butylbenzene | 25.0 | 22.8 | | ug/L | | 91 | 70 - 130 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 21.4 | | ug/L | | 85 | 63 - 130 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 23.4 | | ug/L | | 94 | 60 - 141 |
| Tetrachloroethene | 25.0 | 21.8 | | ug/L | | 87 | 70 - 130 |
| Toluene | 25.0 | 22.7 | | ug/L | | 91 | 70 - 130 |
| trans-1,2-Dichloroethene | 25.0 | 24.2 | | ug/L | | 97 | 70 - 130 |
| trans-1,3-Dichloropropene | 25.0 | 24.7 | | ug/L | | 99 | 70 - 132 |
| 1,2,4-Trichlorobenzene | 25.0 | 24.5 | | ug/L | | 98 | 60 - 140 |
| 1,2,3-Trichlorobenzene | 25.0 | 24.3 | | ug/L | | 97 | 60 - 140 |
| 1,1,1-Trichloroethane | 25.0 | 22.6 | | ug/L | | 90 | 70 - 130 |
| 1,1,2-Trichloroethane | 25.0 | 22.4 | | ug/L | | 90 | 70 - 130 |
| Trichloroethene | 25.0 | 24.1 | | ug/L | | 96 | 70 - 130 |
| Trichlorofluoromethane | 25.0 | 21.1 | | ug/L | | 84 | 60 - 150 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 440-251420/5**
**Matrix: Water**
**Analysis Batch: 251420**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | 25.0 | 20.9 | | ug/L | | 84 | 63 - 130 |
| 1,2,4-Trimethylbenzene | 25.0 | 23.3 | | ug/L | | 93 | 70 - 135 |
| 1,3,5-Trimethylbenzene | 25.0 | 23.5 | | ug/L | | 94 | 70 - 136 |
| Vinyl chloride | 25.0 | 20.7 | | ug/L | | 83 | 59 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *102* | | *76 - 132* |
| *Toluene-d8 (Surr)* | *98* | | *80 - 128* |

**Lab Sample ID: 440-107813-A-3 MS**
**Matrix: Water**
**Analysis Batch: 251420**

**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 | 21.3 | | ug/L | | 85 | 10 - 150 |
| Benzene | ND | | 25.0 | 23.0 | | ug/L | | 92 | 66 - 130 |
| Bromobenzene | ND | | 25.0 | 22.6 | | ug/L | | 91 | 70 - 130 |
| Bromochloromethane | ND | | 25.0 | 24.7 | | ug/L | | 99 | 70 - 130 |
| Bromodichloromethane | ND | | 25.0 | 23.2 | | ug/L | | 93 | 70 - 138 |
| Bromoform | ND | | 25.0 | 21.4 | | ug/L | | 86 | 59 - 150 |
| Bromomethane | ND | | 25.0 | 22.3 | | ug/L | | 89 | 62 - 131 |
| 2-Butanone (MEK) | ND | | 25.0 | 21.6 | | ug/L | | 86 | 48 - 140 |
| Carbon tetrachloride | ND | | 25.0 | 22.2 | | ug/L | | 89 | 60 - 150 |
| Chlorobenzene | ND | | 25.0 | 22.7 | | ug/L | | 91 | 70 - 130 |
| Chloroethane | ND | | 25.0 | 21.6 | | ug/L | | 86 | 68 - 130 |
| Chloroform | ND | | 25.0 | 24.4 | | ug/L | | 98 | 70 - 130 |
| Chloromethane | ND | | 25.0 | 20.6 | | ug/L | | 82 | 39 - 144 |
| 2-Chlorotoluene | ND | | 25.0 | 22.0 | | ug/L | | 88 | 70 - 130 |
| 4-Chlorotoluene | ND | | 25.0 | 22.8 | | ug/L | | 91 | 70 - 130 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 24.5 | | ug/L | | 98 | 70 - 130 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 24.3 | | ug/L | | 97 | 70 - 133 |
| Dibromochloromethane | ND | | 25.0 | 23.2 | | ug/L | | 93 | 70 - 148 |
| 1,2-Dibromo-3-Chloropropane | ND | | 25.0 | 18.9 | | ug/L | | 76 | 48 - 140 |
| 1,2-Dibromoethane (EDB) | ND | | 25.0 | 22.0 | | ug/L | | 88 | 70 - 131 |
| Dibromomethane | ND | | 25.0 | 23.4 | | ug/L | | 94 | 70 - 130 |
| 1,3-Dichlorobenzene | ND | | 25.0 | 23.1 | | ug/L | | 93 | 70 - 130 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 23.0 | | ug/L | | 92 | 70 - 130 |
| 1,4-Dichlorobenzene | ND | | 25.0 | 22.9 | | ug/L | | 92 | 70 - 130 |
| Dichlorodifluoromethane | ND | | 25.0 | 14.9 | | ug/L | | 60 | 25 - 142 |
| 1,1-Dichloroethane | ND | | 25.0 | 23.0 | | ug/L | | 92 | 65 - 130 |
| 1,2-Dichloroethane | ND | | 25.0 | 28.2 | | ug/L | | 113 | 56 - 146 |
| 1,1-Dichloroethene | 1.5 | | 25.0 | 23.2 | | ug/L | | 87 | 70 - 130 |
| 1,2-Dichloropropane | ND | | 25.0 | 24.8 | | ug/L | | 99 | 69 - 130 |
| 2,2-Dichloropropane | ND | | 25.0 | 22.1 | | ug/L | | 89 | 69 - 138 |
| 1,3-Dichloropropane | ND | | 25.0 | 22.4 | | ug/L | | 90 | 70 - 130 |
| 1,1-Dichloropropene | ND | | 25.0 | 23.0 | | ug/L | | 92 | 64 - 130 |
| Ethanol | ND | | 1250 | 1220 | | ug/L | | 98 | 54 - 150 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-107813-A-3 MS**
**Matrix: Water**
**Analysis Batch: 251420**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | ND | | 25.0 | 21.9 | | ug/L | | 88 | 70 - 130 |
| Ethyl-t-butyl ether (ETBE) | ND | | 25.0 | 25.2 | | ug/L | | 101 | 70 - 130 |
| 2-Hexanone | ND | | 25.0 | 21.5 | | ug/L | | 86 | 10 - 150 |
| Isopropylbenzene | ND | | 25.0 | 21.9 | | ug/L | | 88 | 70 - 132 |
| Isopropyl Ether (DIPE) | ND | | 25.0 | 26.8 | | ug/L | | 107 | 64 - 138 |
| Methylene Chloride | ND | | 25.0 | 23.7 | | ug/L | | 95 | 52 - 130 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25.0 | 23.6 | | ug/L | | 95 | 52 - 150 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 25.0 | 23.1 | | ug/L | | 92 | 70 - 130 |
| m,p-Xylene | ND | | 25.0 | 22.8 | | ug/L | | 91 | 70 - 133 |
| Naphthalene | ND | | 25.0 | 22.4 | | ug/L | | 90 | 60 - 140 |
| n-Butylbenzene | ND | | 25.0 | 22.0 | | ug/L | | 88 | 61 - 149 |
| n-Propylbenzene | ND | | 25.0 | 21.1 | | ug/L | | 84 | 66 - 135 |
| o-Xylene | ND | | 25.0 | 22.9 | | ug/L | | 91 | 70 - 133 |
| p-Isopropyltoluene | ND | | 25.0 | 21.9 | | ug/L | | 88 | 70 - 130 |
| sec-Butylbenzene | ND | | 25.0 | 21.1 | | ug/L | | 84 | 67 - 134 |
| Styrene | ND | | 25.0 | 23.6 | | ug/L | | 94 | 29 - 150 |
| Tert-amyl-methyl ether (TAME) | ND | | 25.0 | 22.2 | | ug/L | | 89 | 68 - 133 |
| tert-Butyl alcohol (TBA) | ND | | 250 | 259 | | ug/L | | 104 | 70 - 130 |
| tert-Butylbenzene | ND | | 25.0 | 21.7 | | ug/L | | 87 | 70 - 130 |
| 1,1,2,2-Tetrachloroethane | ND | | 25.0 | 20.9 | | ug/L | | 83 | 63 - 130 |
| 1,1,1,2-Tetrachloroethane | ND | | 25.0 | 23.4 | | ug/L | | 94 | 60 - 149 |
| Tetrachloroethene | 6.4 | | 25.0 | 27.0 | | ug/L | | 83 | 70 - 137 |
| Toluene | ND | | 25.0 | 22.6 | | ug/L | | 90 | 70 - 130 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 23.8 | | ug/L | | 95 | 70 - 130 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 25.1 | | ug/L | | 100 | 70 - 138 |
| 1,2,4-Trichlorobenzene | ND | | 25.0 | 24.9 | | ug/L | | 100 | 60 - 140 |
| 1,2,3-Trichlorobenzene | ND | | 25.0 | 24.9 | | ug/L | | 100 | 60 - 140 |
| 1,1,1-Trichloroethane | ND | | 25.0 | 21.9 | | ug/L | | 88 | 70 - 130 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 21.6 | | ug/L | | 87 | 70 - 130 |
| Trichloroethene | 2.9 | | 25.0 | 25.7 | | ug/L | | 91 | 70 - 130 |
| Trichlorofluoromethane | ND | | 25.0 | 20.8 | | ug/L | | 83 | 60 - 150 |
| 1,2,3-Trichloropropane | ND | | 25.0 | 20.3 | | ug/L | | 81 | 60 - 130 |
| 1,2,4-Trimethylbenzene | ND | | 25.0 | 22.7 | | ug/L | | 91 | 70 - 130 |
| 1,3,5-Trimethylbenzene | ND | | 25.0 | 22.5 | | ug/L | | 90 | 70 - 130 |
| Vinyl chloride | ND | | 25.0 | 20.7 | | ug/L | | 83 | 50 - 137 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *104* | | *76 - 132* |
| *Toluene-d8 (Surr)* | *96* | | *80 - 128* |

**Lab Sample ID: 440-107813-A-3 MSD**
**Matrix: Water**
**Analysis Batch: 251420**

**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 | 19.9 | | ug/L | | 80 | 10 - 150 | 7 | 35 |
| Benzene | ND | | 25.0 | 23.6 | | ug/L | | 95 | 66 - 130 | 3 | 20 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-107813-A-3 MSD**
**Matrix: Water**
**Analysis Batch: 251420**

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | ND | | 25.0 | 22.8 | | ug/L | | 91 | 70 - 130 | 1 | 20 |
| Bromochloromethane | ND | | 25.0 | 25.4 | | ug/L | | 101 | 70 - 130 | 3 | 25 |
| Bromodichloromethane | ND | | 25.0 | 24.3 | | ug/L | | 97 | 70 - 138 | 4 | 20 |
| Bromoform | ND | | 25.0 | 21.1 | | ug/L | | 84 | 59 - 150 | 1 | 25 |
| Bromomethane | ND | | 25.0 | 22.7 | | ug/L | | 91 | 62 - 131 | 2 | 25 |
| 2-Butanone (MEK) | ND | | 25.0 | 20.5 | | ug/L | | 82 | 48 - 140 | 5 | 40 |
| Carbon tetrachloride | ND | | 25.0 | 23.3 | | ug/L | | 93 | 60 - 150 | 5 | 25 |
| Chlorobenzene | ND | | 25.0 | 22.7 | | ug/L | | 91 | 70 - 130 | 0 | 20 |
| Chloroethane | ND | | 25.0 | 22.0 | | ug/L | | 88 | 68 - 130 | 2 | 25 |
| Chloroform | ND | | 25.0 | 24.6 | | ug/L | | 98 | 70 - 130 | 1 | 20 |
| Chloromethane | ND | | 25.0 | 21.2 | | ug/L | | 85 | 39 - 144 | 3 | 25 |
| 2-Chlorotoluene | ND | | 25.0 | 22.6 | | ug/L | | 90 | 70 - 130 | 3 | 20 |
| 4-Chlorotoluene | ND | | 25.0 | 23.5 | | ug/L | | 94 | 70 - 130 | 3 | 20 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 25.0 | | ug/L | | 100 | 70 - 130 | 2 | 20 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 24.0 | | ug/L | | 96 | 70 - 133 | 1 | 20 |
| Dibromochloromethane | ND | | 25.0 | 23.1 | | ug/L | | 93 | 70 - 148 | 0 | 25 |
| 1,2-Dibromo-3-Chloropropane | ND | | 25.0 | 18.7 | | ug/L | | 75 | 48 - 140 | 1 | 30 |
| 1,2-Dibromoethane (EDB) | ND | | 25.0 | 21.9 | | ug/L | | 88 | 70 - 131 | 1 | 25 |
| Dibromomethane | ND | | 25.0 | 23.5 | | ug/L | | 94 | 70 - 130 | 1 | 25 |
| 1,3-Dichlorobenzene | ND | | 25.0 | 23.9 | | ug/L | | 95 | 70 - 130 | 3 | 20 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 23.3 | | ug/L | | 93 | 70 - 130 | 1 | 20 |
| 1,4-Dichlorobenzene | ND | | 25.0 | 23.6 | | ug/L | | 94 | 70 - 130 | 3 | 20 |
| Dichlorodifluoromethane | ND | | 25.0 | 16.1 | | ug/L | | 64 | 25 - 142 | 8 | 30 |
| 1,1-Dichloroethane | ND | | 25.0 | 23.2 | | ug/L | | 93 | 65 - 130 | 1 | 20 |
| 1,2-Dichloroethane | ND | | 25.0 | 25.0 | | ug/L | | 100 | 56 - 146 | 12 | 20 |
| 1,1-Dichloroethene | 1.5 | | 25.0 | 24.9 | | ug/L | | 93 | 70 - 130 | 7 | 20 |
| 1,2-Dichloropropane | ND | | 25.0 | 25.1 | | ug/L | | 100 | 69 - 130 | 1 | 20 |
| 2,2-Dichloropropane | ND | | 25.0 | 22.6 | | ug/L | | 90 | 69 - 138 | 2 | 25 |
| 1,3-Dichloropropane | ND | | 25.0 | 22.4 | | ug/L | | 90 | 70 - 130 | 0 | 25 |
| 1,1-Dichloropropene | ND | | 25.0 | 24.5 | | ug/L | | 98 | 64 - 130 | 6 | 20 |
| Ethanol | ND | | 1250 | 1220 | | ug/L | | 98 | 54 - 150 | 0 | 30 |
| Ethylbenzene | ND | | 25.0 | 22.5 | | ug/L | | 90 | 70 - 130 | 3 | 20 |
| Ethyl-t-butyl ether (ETBE) | ND | | 25.0 | 26.2 | | ug/L | | 105 | 70 - 130 | 4 | 25 |
| 2-Hexanone | ND | | 25.0 | 22.0 | | ug/L | | 88 | 10 - 150 | 3 | 35 |
| Isopropylbenzene | ND | | 25.0 | 22.3 | | ug/L | | 89 | 70 - 132 | 2 | 20 |
| Isopropyl Ether (DIPE) | ND | | 25.0 | 27.3 | | ug/L | | 109 | 64 - 138 | 2 | 25 |
| Methylene Chloride | ND | | 25.0 | 23.6 | | ug/L | | 94 | 52 - 130 | 1 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25.0 | 23.2 | | ug/L | | 93 | 52 - 150 | 2 | 35 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 25.0 | 23.4 | | ug/L | | 94 | 70 - 130 | 1 | 25 |
| m,p-Xylene | ND | | 25.0 | 23.2 | | ug/L | | 93 | 70 - 133 | 2 | 25 |
| Naphthalene | ND | | 25.0 | 22.8 | | ug/L | | 91 | 60 - 140 | 2 | 30 |
| n-Butylbenzene | ND | | 25.0 | 22.9 | | ug/L | | 91 | 61 - 149 | 4 | 20 |
| n-Propylbenzene | ND | | 25.0 | 22.0 | | ug/L | | 88 | 66 - 135 | 4 | 20 |
| o-Xylene | ND | | 25.0 | 23.1 | | ug/L | | 93 | 70 - 133 | 1 | 20 |
| p-Isopropyltoluene | ND | | 25.0 | 22.7 | | ug/L | | 91 | 70 - 130 | 4 | 20 |
| sec-Butylbenzene | ND | | 25.0 | 21.9 | | ug/L | | 88 | 67 - 134 | 4 | 20 |
| Styrene | ND | | 25.0 | 23.9 | | ug/L | | 96 | 29 - 150 | 1 | 35 |
| Tert-amyl-methyl ether (TAME) | ND | | 25.0 | 23.2 | | ug/L | | 93 | 68 - 133 | 5 | 30 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-107813-A-3 MSD**
**Matrix: Water**
**Analysis Batch: 251420**

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| tert-Butyl alcohol (TBA) | ND | | 250 | 257 | | ug/L | | 103 | 70 - 130 | 1 | 25 |
| tert-Butylbenzene | ND | | 25.0 | 22.5 | | ug/L | | 90 | 70 - 130 | 4 | 20 |
| 1,1,2,2-Tetrachloroethane | ND | | 25.0 | 20.9 | | ug/L | | 83 | 63 - 130 | 0 | 30 |
| 1,1,1,2-Tetrachloroethane | ND | | 25.0 | 23.7 | | ug/L | | 95 | 60 - 149 | 1 | 20 |
| Tetrachloroethene | 6.4 | | 25.0 | 27.6 | | ug/L | | 85 | 70 - 137 | 2 | 20 |
| Toluene | ND | | 25.0 | 23.0 | | ug/L | | 92 | 70 - 130 | 2 | 20 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 24.7 | | ug/L | | 99 | 70 - 130 | 4 | 20 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 24.9 | | ug/L | | 100 | 70 - 138 | 1 | 25 |
| 1,2,4-Trichlorobenzene | ND | | 25.0 | 25.4 | | ug/L | | 102 | 60 - 140 | 2 | 20 |
| 1,2,3-Trichlorobenzene | ND | | 25.0 | 24.7 | | ug/L | | 99 | 60 - 140 | 1 | 20 |
| 1,1,1-Trichloroethane | ND | | 25.0 | 22.9 | | ug/L | | 92 | 70 - 130 | 4 | 20 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 22.3 | | ug/L | | 89 | 70 - 130 | 3 | 25 |
| Trichloroethene | 2.9 | | 25.0 | 26.8 | | ug/L | | 96 | 70 - 130 | 4 | 20 |
| Trichlorofluoromethane | ND | | 25.0 | 21.3 | | ug/L | | 85 | 60 - 150 | 2 | 25 |
| 1,2,3-Trichloropropane | ND | | 25.0 | 20.8 | | ug/L | | 83 | 60 - 130 | 3 | 30 |
| 1,2,4-Trimethylbenzene | ND | | 25.0 | 23.3 | | ug/L | | 93 | 70 - 130 | 2 | 25 |
| 1,3,5-Trimethylbenzene | ND | | 25.0 | 23.3 | | ug/L | | 93 | 70 - 130 | 4 | 20 |
| Vinyl chloride | ND | | 25.0 | 21.2 | | ug/L | | 85 | 50 - 137 | 2 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *103* | | *76 - 132* |
| *Toluene-d8 (Surr)* | *96* | | *80 - 128* |

**Lab Sample ID: MB 440-251505/3**
**Matrix: Water**
**Analysis Batch: 251505**

**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 | | | 04/28/15 07:38 | 1 |
| Benzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Bromobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Bromochloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Bromodichloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Bromoform | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 07:38 | 1 |
| Bromomethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 2.5 | ug/L | | | 04/28/15 07:38 | 1 |
| Carbon tetrachloride | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Chlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Chloroethane | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 07:38 | 1 |
| Chloroform | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Chloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Dibromochloromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.50 | ug/L | | | 04/28/15 07:38 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 440-251505/3**
**Matrix: Water**
**Analysis Batch: 251505**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Dibromomethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 2,2-Dichloropropane | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,3-Dichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Ethanol | ND | | 150 | 75 | ug/L | | | 04/28/15 07:38 | 1 |
| Ethylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 2-Hexanone | ND | | 5.0 | 2.5 | ug/L | | | 04/28/15 07:38 | 1 |
| Isopropylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Isopropyl Ether (DIPE) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Methylene Chloride | ND | | 2.0 | 0.88 | ug/L | | | 04/28/15 07:38 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.5 | ug/L | | | 04/28/15 07:38 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| m,p-Xylene | ND | | 1.0 | 0.50 | ug/L | | | 04/28/15 07:38 | 1 |
| Naphthalene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 07:38 | 1 |
| n-Butylbenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 07:38 | 1 |
| n-Propylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| o-Xylene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| p-Isopropyltoluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| sec-Butylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Styrene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Tert-amyl-methyl ether (TAME) | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| tert-Butyl alcohol (TBA) | ND | | 10 | 5.0 | ug/L | | | 04/28/15 07:38 | 1 |
| tert-Butylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Tetrachloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Toluene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.40 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Trichloroethene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Trichlorofluoromethane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 440-251505/3**
**Matrix: Water**
**Analysis Batch: 251505**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Vinyl chloride | ND | | 0.50 | 0.25 | ug/L | | | 04/28/15 07:38 | 1 |
| Xylenes, Total | ND | | 1.0 | 0.50 | ug/L | | | 04/28/15 07:38 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *80 - 120* | | *04/28/15 07:38* | *1* |
| *Dibromofluoromethane (Surr)* | *102* | | *76 - 132* | | *04/28/15 07:38* | *1* |
| *Toluene-d8 (Surr)* | *106* | | *80 - 128* | | *04/28/15 07:38* | *1* |

**Lab Sample ID: LCS 440-251505/4**
**Matrix: Water**
**Analysis Batch: 251505**

**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 | 26.7 | | ug/L | | 107 | 10 - 150 |
| Benzene | 25.0 | 23.1 | | ug/L | | 92 | 68 - 130 |
| Bromobenzene | 25.0 | 24.7 | | ug/L | | 99 | 70 - 130 |
| Bromochloromethane | 25.0 | 26.5 | | ug/L | | 106 | 70 - 130 |
| Bromodichloromethane | 25.0 | 22.3 | | ug/L | | 89 | 70 - 132 |
| Bromoform | 25.0 | 22.3 | | ug/L | | 89 | 60 - 148 |
| Bromomethane | 25.0 | 22.7 | | ug/L | | 91 | 64 - 139 |
| 2-Butanone (MEK) | 25.0 | 25.6 | | ug/L | | 102 | 44 - 150 |
| Carbon tetrachloride | 25.0 | 23.9 | | ug/L | | 95 | 60 - 150 |
| Chlorobenzene | 25.0 | 22.1 | | ug/L | | 89 | 70 - 130 |
| Chloroethane | 25.0 | 23.3 | | ug/L | | 93 | 64 - 135 |
| Chloroform | 25.0 | 21.9 | | ug/L | | 87 | 70 - 130 |
| Chloromethane | 25.0 | 20.5 | | ug/L | | 82 | 47 - 140 |
| 2-Chlorotoluene | 25.0 | 24.0 | | ug/L | | 96 | 70 - 130 |
| 4-Chlorotoluene | 25.0 | 23.9 | | ug/L | | 96 | 70 - 130 |
| cis-1,2-Dichloroethene | 25.0 | 25.3 | | ug/L | | 101 | 70 - 133 |
| cis-1,3-Dichloropropene | 25.0 | 23.9 | | ug/L | | 95 | 70 - 133 |
| Dibromochloromethane | 25.0 | 23.0 | | ug/L | | 92 | 69 - 145 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 20.6 | | ug/L | | 82 | 52 - 140 |
| 1,2-Dibromoethane (EDB) | 25.0 | 24.0 | | ug/L | | 96 | 70 - 130 |
| Dibromomethane | 25.0 | 23.1 | | ug/L | | 92 | 70 - 130 |
| 1,3-Dichlorobenzene | 25.0 | 24.0 | | ug/L | | 96 | 70 - 130 |
| 1,2-Dichlorobenzene | 25.0 | 24.7 | | ug/L | | 99 | 70 - 130 |
| 1,4-Dichlorobenzene | 25.0 | 23.5 | | ug/L | | 94 | 70 - 130 |
| Dichlorodifluoromethane | 25.0 | 17.8 | | ug/L | | 71 | 29 - 150 |
| 1,1-Dichloroethane | 25.0 | 22.2 | | ug/L | | 89 | 64 - 130 |
| 1,2-Dichloroethane | 25.0 | 21.5 | | ug/L | | 86 | 57 - 138 |
| 1,1-Dichloroethene | 25.0 | 23.4 | | ug/L | | 94 | 70 - 130 |
| 1,2-Dichloropropane | 25.0 | 22.8 | | ug/L | | 91 | 67 - 130 |
| 2,2-Dichloropropane | 25.0 | 23.1 | | ug/L | | 92 | 68 - 141 |
| 1,3-Dichloropropane | 25.0 | 22.0 | | ug/L | | 88 | 70 - 130 |
| 1,1-Dichloropropene | 25.0 | 24.9 | | ug/L | | 100 | 70 - 130 |
| Ethanol | 1250 | 1330 | | ug/L | | 107 | 50 - 149 |
| Ethylbenzene | 25.0 | 23.4 | | ug/L | | 94 | 70 - 130 |
| Ethyl-t-butyl ether (ETBE) | 25.0 | 23.8 | | ug/L | | 95 | 60 - 136 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 440-251505/4**
**Matrix: Water**
**Analysis Batch: 251505**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 2-Hexanone | 25.0 | 27.2 | | ug/L | | 109 | 10 - 150 |
| Isopropylbenzene | 25.0 | 24.1 | | ug/L | | 96 | 70 - 136 |
| Isopropyl Ether (DIPE) | 25.0 | 23.2 | | ug/L | | 93 | 58 - 139 |
| Methylene Chloride | 25.0 | 21.9 | | ug/L | | 87 | 52 - 130 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 26.6 | | ug/L | | 106 | 59 - 149 |
| Methyl-t-Butyl Ether (MTBE) | 25.0 | 22.5 | | ug/L | | 90 | 63 - 131 |
| m,p-Xylene | 25.0 | 24.7 | | ug/L | | 99 | 70 - 130 |
| Naphthalene | 25.0 | 27.1 | | ug/L | | 108 | 60 - 140 |
| n-Butylbenzene | 25.0 | 23.5 | | ug/L | | 94 | 65 - 150 |
| n-Propylbenzene | 25.0 | 24.4 | | ug/L | | 97 | 67 - 139 |
| o-Xylene | 25.0 | 24.6 | | ug/L | | 98 | 70 - 130 |
| p-Isopropyltoluene | 25.0 | 24.1 | | ug/L | | 96 | 70 - 132 |
| sec-Butylbenzene | 25.0 | 23.9 | | ug/L | | 96 | 70 - 138 |
| Styrene | 25.0 | 23.6 | | ug/L | | 95 | 70 - 134 |
| Tert-amyl-methyl ether (TAME) | 25.0 | 24.6 | | ug/L | | 99 | 57 - 139 |
| tert-Butyl alcohol (TBA) | 250 | 239 | | ug/L | | 95 | 70 - 130 |
| tert-Butylbenzene | 25.0 | 25.3 | | ug/L | | 101 | 70 - 130 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 21.8 | | ug/L | | 87 | 63 - 130 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 23.2 | | ug/L | | 93 | 60 - 141 |
| Tetrachloroethene | 25.0 | 23.7 | | ug/L | | 95 | 70 - 130 |
| Toluene | 25.0 | 24.0 | | ug/L | | 96 | 70 - 130 |
| trans-1,2-Dichloroethene | 25.0 | 25.4 | | ug/L | | 102 | 70 - 130 |
| trans-1,3-Dichloropropene | 25.0 | 23.2 | | ug/L | | 93 | 70 - 132 |
| 1,2,4-Trichlorobenzene | 25.0 | 25.8 | | ug/L | | 103 | 60 - 140 |
| 1,2,3-Trichlorobenzene | 25.0 | 25.0 | | ug/L | | 100 | 60 - 140 |
| 1,1,1-Trichloroethane | 25.0 | 22.0 | | ug/L | | 88 | 70 - 130 |
| 1,1,2-Trichloroethane | 25.0 | 22.4 | | ug/L | | 90 | 70 - 130 |
| Trichloroethene | 25.0 | 25.2 | | ug/L | | 101 | 70 - 130 |
| Trichlorofluoromethane | 25.0 | 21.7 | | ug/L | | 87 | 60 - 150 |
| 1,2,3-Trichloropropane | 25.0 | 21.3 | | ug/L | | 85 | 63 - 130 |
| 1,2,4-Trimethylbenzene | 25.0 | 23.1 | | ug/L | | 93 | 70 - 135 |
| 1,3,5-Trimethylbenzene | 25.0 | 23.7 | | ug/L | | 95 | 70 - 136 |
| Vinyl chloride | 25.0 | 19.6 | | ug/L | | 79 | 59 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *101* | | *76 - 132* |
| *Toluene-d8 (Surr)* | *103* | | *80 - 128* |

**Lab Sample ID: 440-107928-B-1 MS**
**Matrix: Water**
**Analysis Batch: 251505**

**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 | 23.8 | | ug/L | | 95 | 10 - 150 |
| Benzene | ND | | 25.0 | 21.5 | | ug/L | | 86 | 66 - 130 |
| Bromobenzene | ND | | 25.0 | 23.2 | | ug/L | | 93 | 70 - 130 |
| Bromochloromethane | ND | | 25.0 | 25.3 | | ug/L | | 101 | 70 - 130 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-107928-B-1 MS**
**Matrix: Water**
**Analysis Batch: 251505**

**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 | 21.8 | | ug/L | | 87 | 70 - 138 |
| Bromoform | ND | | 25.0 | 21.9 | | ug/L | | 88 | 59 - 150 |
| Bromomethane | ND | | 25.0 | 21.9 | | ug/L | | 88 | 62 - 131 |
| 2-Butanone (MEK) | ND | | 25.0 | 25.0 | | ug/L | | 100 | 48 - 140 |
| Carbon tetrachloride | ND | | 25.0 | 22.8 | | ug/L | | 91 | 60 - 150 |
| Chlorobenzene | ND | | 25.0 | 21.1 | | ug/L | | 84 | 70 - 130 |
| Chloroethane | ND | | 25.0 | 21.5 | | ug/L | | 86 | 68 - 130 |
| Chloroform | ND | | 25.0 | 21.0 | | ug/L | | 84 | 70 - 130 |
| Chloromethane | ND | | 25.0 | 18.6 | | ug/L | | 74 | 39 - 144 |
| 2-Chlorotoluene | ND | | 25.0 | 22.1 | | ug/L | | 88 | 70 - 130 |
| 4-Chlorotoluene | ND | | 25.0 | 22.4 | | ug/L | | 90 | 70 - 130 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 23.2 | | ug/L | | 93 | 70 - 130 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 22.6 | | ug/L | | 90 | 70 - 133 |
| Dibromochloromethane | ND | | 25.0 | 22.5 | | ug/L | | 90 | 70 - 148 |
| 1,2-Dibromo-3-Chloropropane | ND | | 25.0 | 20.8 | | ug/L | | 83 | 48 - 140 |
| 1,2-Dibromoethane (EDB) | ND | | 25.0 | 22.8 | | ug/L | | 91 | 70 - 131 |
| Dibromomethane | ND | | 25.0 | 22.5 | | ug/L | | 90 | 70 - 130 |
| 1,3-Dichlorobenzene | ND | | 25.0 | 22.8 | | ug/L | | 91 | 70 - 130 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 23.0 | | ug/L | | 92 | 70 - 130 |
| 1,4-Dichlorobenzene | ND | | 25.0 | 22.2 | | ug/L | | 89 | 70 - 130 |
| Dichlorodifluoromethane | ND | | 25.0 | 15.9 | | ug/L | | 64 | 25 - 142 |
| 1,1-Dichloroethane | ND | | 25.0 | 20.9 | | ug/L | | 84 | 65 - 130 |
| 1,2-Dichloroethane | ND | | 25.0 | 20.6 | | ug/L | | 83 | 56 - 146 |
| 1,1-Dichloroethene | ND | | 25.0 | 21.5 | | ug/L | | 86 | 70 - 130 |
| 1,2-Dichloropropane | ND | | 25.0 | 21.9 | | ug/L | | 88 | 69 - 130 |
| 2,2-Dichloropropane | ND | | 25.0 | 21.4 | | ug/L | | 86 | 69 - 138 |
| 1,3-Dichloropropane | ND | | 25.0 | 20.9 | | ug/L | | 83 | 70 - 130 |
| 1,1-Dichloropropene | ND | | 25.0 | 23.3 | | ug/L | | 93 | 64 - 130 |
| Ethanol | ND | | 1250 | 1230 | | ug/L | | 99 | 54 - 150 |
| Ethylbenzene | ND | | 25.0 | 22.3 | | ug/L | | 89 | 70 - 130 |
| Ethyl-t-butyl ether (ETBE) | ND | | 25.0 | 22.7 | | ug/L | | 91 | 70 - 130 |
| 2-Hexanone | ND | | 25.0 | 24.0 | | ug/L | | 96 | 10 - 150 |
| Isopropylbenzene | ND | | 25.0 | 22.8 | | ug/L | | 91 | 70 - 132 |
| Isopropyl Ether (DIPE) | ND | | 25.0 | 22.2 | | ug/L | | 89 | 64 - 138 |
| Methylene Chloride | ND | | 25.0 | 20.7 | | ug/L | | 83 | 52 - 130 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25.0 | 25.1 | | ug/L | | 100 | 52 - 150 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 25.0 | 21.9 | | ug/L | | 88 | 70 - 130 |
| m,p-Xylene | ND | | 25.0 | 23.1 | | ug/L | | 92 | 70 - 133 |
| Naphthalene | ND | | 25.0 | 25.8 | | ug/L | | 103 | 60 - 140 |
| n-Butylbenzene | ND | | 25.0 | 22.0 | | ug/L | | 88 | 61 - 149 |
| n-Propylbenzene | ND | | 25.0 | 23.0 | | ug/L | | 92 | 66 - 135 |
| o-Xylene | ND | | 25.0 | 23.3 | | ug/L | | 93 | 70 - 133 |
| p-Isopropyltoluene | ND | | 25.0 | 22.5 | | ug/L | | 90 | 70 - 130 |
| sec-Butylbenzene | ND | | 25.0 | 22.2 | | ug/L | | 89 | 67 - 134 |
| Styrene | ND | | 25.0 | 22.3 | | ug/L | | 89 | 29 - 150 |
| Tert-amyl-methyl ether (TAME) | ND | | 25.0 | 23.4 | | ug/L | | 94 | 68 - 133 |
| tert-Butyl alcohol (TBA) | ND | | 250 | 234 | | ug/L | | 94 | 70 - 130 |
| tert-Butylbenzene | ND | | 25.0 | 23.5 | | ug/L | | 94 | 70 - 130 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-107928-B-1 MS**
**Matrix: Water**
**Analysis Batch: 251505**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 25.0 | 20.7 | | ug/L | | 83 | 63 - 130 |
| 1,1,1,2-Tetrachloroethane | ND | | 25.0 | 22.1 | | ug/L | | 88 | 60 - 149 |
| Tetrachloroethene | ND | | 25.0 | 23.0 | | ug/L | | 92 | 70 - 137 |
| Toluene | ND | | 25.0 | 22.7 | | ug/L | | 91 | 70 - 130 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 23.9 | | ug/L | | 96 | 70 - 130 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 21.9 | | ug/L | | 88 | 70 - 138 |
| 1,2,4-Trichlorobenzene | ND | | 25.0 | 24.1 | | ug/L | | 96 | 60 - 140 |
| 1,2,3-Trichlorobenzene | ND | | 25.0 | 24.1 | | ug/L | | 97 | 60 - 140 |
| 1,1,1-Trichloroethane | ND | | 25.0 | 21.0 | | ug/L | | 84 | 70 - 130 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 21.0 | | ug/L | | 84 | 70 - 130 |
| Trichloroethene | ND | | 25.0 | 23.9 | | ug/L | | 96 | 70 - 130 |
| Trichlorofluoromethane | ND | | 25.0 | 20.7 | | ug/L | | 83 | 60 - 150 |
| 1,2,3-Trichloropropane | ND | | 25.0 | 20.5 | | ug/L | | 82 | 60 - 130 |
| 1,2,4-Trimethylbenzene | ND | | 25.0 | 21.7 | | ug/L | | 87 | 70 - 130 |
| 1,3,5-Trimethylbenzene | ND | | 25.0 | 21.9 | | ug/L | | 88 | 70 - 130 |
| Vinyl chloride | ND | | 25.0 | 18.6 | | ug/L | | 75 | 50 - 137 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *103* | | *76 - 132* |
| *Toluene-d8 (Surr)* | *103* | | *80 - 128* |

**Lab Sample ID: 440-107928-B-1 MSD**
**Matrix: Water**
**Analysis Batch: 251505**

**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 | 25.5 | | ug/L | | 102 | 10 - 150 | 7 | 35 |
| Benzene | ND | | 25.0 | 23.6 | | ug/L | | 95 | 66 - 130 | 9 | 20 |
| Bromobenzene | ND | | 25.0 | 25.4 | | ug/L | | 102 | 70 - 130 | 9 | 20 |
| Bromochloromethane | ND | | 25.0 | 28.1 | | ug/L | | 112 | 70 - 130 | 11 | 25 |
| Bromodichloromethane | ND | | 25.0 | 23.2 | | ug/L | | 93 | 70 - 138 | 6 | 20 |
| Bromoform | ND | | 25.0 | 22.5 | | ug/L | | 90 | 59 - 150 | 3 | 25 |
| Bromomethane | ND | | 25.0 | 23.3 | | ug/L | | 93 | 62 - 131 | 6 | 25 |
| 2-Butanone (MEK) | ND | | 25.0 | 26.8 | | ug/L | | 107 | 48 - 140 | 7 | 40 |
| Carbon tetrachloride | ND | | 25.0 | 24.7 | | ug/L | | 99 | 60 - 150 | 8 | 25 |
| Chlorobenzene | ND | | 25.0 | 22.2 | | ug/L | | 89 | 70 - 130 | 5 | 20 |
| Chloroethane | ND | | 25.0 | 23.2 | | ug/L | | 93 | 68 - 130 | 8 | 25 |
| Chloroform | ND | | 25.0 | 23.0 | | ug/L | | 92 | 70 - 130 | 9 | 20 |
| Chloromethane | ND | | 25.0 | 21.1 | | ug/L | | 84 | 39 - 144 | 12 | 25 |
| 2-Chlorotoluene | ND | | 25.0 | 23.8 | | ug/L | | 95 | 70 - 130 | 8 | 20 |
| 4-Chlorotoluene | ND | | 25.0 | 24.4 | | ug/L | | 97 | 70 - 130 | 8 | 20 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 26.3 | | ug/L | | 105 | 70 - 130 | 12 | 20 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 23.6 | | ug/L | | 94 | 70 - 133 | 4 | 20 |
| Dibromochloromethane | ND | | 25.0 | 23.2 | | ug/L | | 93 | 70 - 148 | 3 | 25 |
| 1,2-Dibromo-3-Chloropropane | ND | | 25.0 | 21.9 | | ug/L | | 88 | 48 - 140 | 5 | 30 |
| 1,2-Dibromoethane (EDB) | ND | | 25.0 | 24.4 | | ug/L | | 98 | 70 - 131 | 7 | 25 |
| Dibromomethane | ND | | 25.0 | 24.6 | | ug/L | | 98 | 70 - 130 | 9 | 25 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-107928-B-1 MSD**
**Matrix: Water**
**Analysis Batch: 251505**

**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-Dichlorobenzene | ND | | 25.0 | 24.5 | | ug/L | | 98 | 70 - 130 | 7 | 20 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 25.1 | | ug/L | | 100 | 70 - 130 | 9 | 20 |
| 1,4-Dichlorobenzene | ND | | 25.0 | 23.5 | | ug/L | | 94 | 70 - 130 | 6 | 20 |
| Dichlorodifluoromethane | ND | | 25.0 | 17.5 | | ug/L | | 70 | 25 - 142 | 9 | 30 |
| 1,1-Dichloroethane | ND | | 25.0 | 22.6 | | ug/L | | 90 | 65 - 130 | 8 | 20 |
| 1,2-Dichloroethane | ND | | 25.0 | 22.5 | | ug/L | | 90 | 56 - 146 | 8 | 20 |
| 1,1-Dichloroethene | ND | | 25.0 | 23.7 | | ug/L | | 95 | 70 - 130 | 10 | 20 |
| 1,2-Dichloropropane | ND | | 25.0 | 23.8 | | ug/L | | 95 | 69 - 130 | 8 | 20 |
| 2,2-Dichloropropane | ND | | 25.0 | 23.6 | | ug/L | | 94 | 69 - 138 | 10 | 25 |
| 1,3-Dichloropropane | ND | | 25.0 | 21.4 | | ug/L | | 86 | 70 - 130 | 3 | 25 |
| 1,1-Dichloropropene | ND | | 25.0 | 25.0 | | ug/L | | 100 | 64 - 130 | 7 | 20 |
| Ethanol | ND | | 1250 | 1350 | | ug/L | | 108 | 54 - 150 | 9 | 30 |
| Ethylbenzene | ND | | 25.0 | 23.1 | | ug/L | | 92 | 70 - 130 | 4 | 20 |
| Ethyl-t-butyl ether (ETBE) | ND | | 25.0 | 24.8 | | ug/L | | 99 | 70 - 130 | 9 | 25 |
| 2-Hexanone | ND | | 25.0 | 25.4 | | ug/L | | 102 | 10 - 150 | 5 | 35 |
| Isopropylbenzene | ND | | 25.0 | 23.8 | | ug/L | | 95 | 70 - 132 | 4 | 20 |
| Isopropyl Ether (DIPE) | ND | | 25.0 | 24.9 | | ug/L | | 100 | 64 - 138 | 11 | 25 |
| Methylene Chloride | ND | | 25.0 | 22.7 | | ug/L | | 91 | 52 - 130 | 9 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25.0 | 25.9 | | ug/L | | 104 | 52 - 150 | 3 | 35 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 25.0 | 24.3 | | ug/L | | 97 | 70 - 130 | 10 | 25 |
| m,p-Xylene | ND | | 25.0 | 24.7 | | ug/L | | 99 | 70 - 133 | 6 | 25 |
| Naphthalene | ND | | 25.0 | 28.1 | | ug/L | | 113 | 60 - 140 | 9 | 30 |
| n-Butylbenzene | ND | | 25.0 | 23.9 | | ug/L | | 96 | 61 - 149 | 8 | 20 |
| n-Propylbenzene | ND | | 25.0 | 24.9 | | ug/L | | 99 | 66 - 135 | 8 | 20 |
| o-Xylene | ND | | 25.0 | 24.3 | | ug/L | | 97 | 70 - 133 | 4 | 20 |
| p-Isopropyltoluene | ND | | 25.0 | 24.4 | | ug/L | | 98 | 70 - 130 | 8 | 20 |
| sec-Butylbenzene | ND | | 25.0 | 24.3 | | ug/L | | 97 | 67 - 134 | 9 | 20 |
| Styrene | ND | | 25.0 | 23.7 | | ug/L | | 95 | 29 - 150 | 6 | 35 |
| Tert-amyl-methyl ether (TAME) | ND | | 25.0 | 25.9 | | ug/L | | 104 | 68 - 133 | 10 | 30 |
| tert-Butyl alcohol (TBA) | ND | | 250 | 223 | | ug/L | | 89 | 70 - 130 | 5 | 25 |
| tert-Butylbenzene | ND | | 25.0 | 25.7 | | ug/L | | 103 | 70 - 130 | 9 | 20 |
| 1,1,2,2-Tetrachloroethane | ND | | 25.0 | 22.6 | | ug/L | | 90 | 63 - 130 | 9 | 30 |
| 1,1,1,2-Tetrachloroethane | ND | | 25.0 | 22.9 | | ug/L | | 92 | 60 - 149 | 4 | 20 |
| Tetrachloroethene | ND | | 25.0 | 23.9 | | ug/L | | 96 | 70 - 137 | 4 | 20 |
| Toluene | ND | | 25.0 | 23.6 | | ug/L | | 94 | 70 - 130 | 4 | 20 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 26.0 | | ug/L | | 104 | 70 - 130 | 8 | 20 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 23.2 | | ug/L | | 93 | 70 - 138 | 5 | 25 |
| 1,2,4-Trichlorobenzene | ND | | 25.0 | 26.7 | | ug/L | | 107 | 60 - 140 | 10 | 20 |
| 1,2,3-Trichlorobenzene | ND | | 25.0 | 26.3 | | ug/L | | 105 | 60 - 140 | 8 | 20 |
| 1,1,1-Trichloroethane | ND | | 25.0 | 22.6 | | ug/L | | 90 | 70 - 130 | 7 | 20 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 22.2 | | ug/L | | 89 | 70 - 130 | 6 | 25 |
| Trichloroethene | ND | | 25.0 | 26.0 | | ug/L | | 104 | 70 - 130 | 9 | 20 |
| Trichlorofluoromethane | ND | | 25.0 | 21.9 | | ug/L | | 88 | 60 - 150 | 6 | 25 |
| 1,2,3-Trichloropropane | ND | | 25.0 | 22.4 | | ug/L | | 90 | 60 - 130 | 9 | 30 |
| 1,2,4-Trimethylbenzene | ND | | 25.0 | 23.6 | | ug/L | | 94 | 70 - 130 | 8 | 25 |
| 1,3,5-Trimethylbenzene | ND | | 25.0 | 24.2 | | ug/L | | 97 | 70 - 130 | 10 | 20 |
| Vinyl chloride | ND | | 25.0 | 20.0 | | ug/L | | 80 | 50 - 137 | 7 | 30 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-107928-B-1 MSD**
**Matrix: Water**
**Analysis Batch: 251505**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *103* | | *76 - 132* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 128* |

## Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

**Lab Sample ID: MB 440-251224/1-A**
**Matrix: Water**
**Analysis Batch: 251421**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 251224**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Acenaphthylene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Anthracene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Benzo[a]anthracene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Benzo[a]pyrene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Benzo[b]fluoranthene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Benzo[k]fluoranthene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Chrysene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Fluoranthene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Fluorene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Naphthalene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Phenanthrene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |
| Pyrene | ND | | 0.20 | 0.10 | ug/L | | 04/26/15 13:54 | 04/27/15 16:14 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *84* | | *31 - 120* | *04/26/15 13:54* | *04/27/15 16:14* | *1* |
| *Nitrobenzene-d5* | *81* | | *25 - 133* | *04/26/15 13:54* | *04/27/15 16:14* | *1* |
| *Terphenyl-d14* | *95* | | *10 - 120* | *04/26/15 13:54* | *04/27/15 16:14* | *1* |

**Lab Sample ID: LCS 440-251224/2-A**
**Matrix: Water**
**Analysis Batch: 251421**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 251224**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 1.00 | 0.751 | | ug/L | | 75 | 47 - 103 |
| Acenaphthylene | 1.00 | 0.728 | | ug/L | | 73 | 45 - 102 |
| Anthracene | 1.00 | 0.806 | | ug/L | | 81 | 47 - 111 |
| Benzo[a]anthracene | 1.00 | 0.860 | | ug/L | | 86 | 56 - 110 |
| Benzo[a]pyrene | 1.00 | 0.814 | | ug/L | | 81 | 48 - 110 |
| Benzo[b]fluoranthene | 1.00 | 0.911 | | ug/L | | 91 | 53 - 116 |
| Benzo[g,h,i]perylene | 1.00 | 1.05 | | ug/L | | 105 | 44 - 130 |
| Benzo[k]fluoranthene | 1.00 | 0.898 | | ug/L | | 90 | 51 - 127 |
| Chrysene | 1.00 | 0.889 | | ug/L | | 89 | 52 - 118 |

## Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

**Lab Sample ID: LCS 440-251224/2-A**
**Matrix: Water**
**Analysis Batch: 251421**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 251224**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dibenz(a,h)anthracene | 1.00 | 0.967 | | ug/L | | 97 | 44 - 125 |
| Fluoranthene | 1.00 | 0.926 | | ug/L | | 93 | 51 - 116 |
| Fluorene | 1.00 | 0.787 | | ug/L | | 79 | 50 - 106 |
| Indeno[1,2,3-cd]pyrene | 1.00 | 1.00 | | ug/L | | 100 | 41 - 127 |
| Naphthalene | 1.00 | 0.667 | | ug/L | | 67 | 40 - 100 |
| Phenanthrene | 1.00 | 0.841 | | ug/L | | 84 | 49 - 110 |
| Pyrene | 1.00 | 0.861 | | ug/L | | 86 | 41 - 115 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *71* | | *31 - 120* |
| *Nitrobenzene-d5* | *67* | | *25 - 133* |
| *Terphenyl-d14* | *82* | | *10 - 120* |

**Lab Sample ID: LCSD 440-251224/3-A**
**Matrix: Water**
**Analysis Batch: 251421**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 251224**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 1.00 | 0.719 | | ug/L | | 72 | 47 - 103 | 4 | 35 |
| Acenaphthylene | 1.00 | 0.703 | | ug/L | | 70 | 45 - 102 | 4 | 35 |
| Anthracene | 1.00 | 0.766 | | ug/L | | 77 | 47 - 111 | 5 | 35 |
| Benzo[a]anthracene | 1.00 | 0.841 | | ug/L | | 84 | 56 - 110 | 2 | 35 |
| Benzo[a]pyrene | 1.00 | 0.799 | | ug/L | | 80 | 48 - 110 | 2 | 35 |
| Benzo[b]fluoranthene | 1.00 | 0.903 | | ug/L | | 90 | 53 - 116 | 1 | 35 |
| Benzo[g,h,i]perylene | 1.00 | 1.03 | | ug/L | | 103 | 44 - 130 | 3 | 35 |
| Benzo[k]fluoranthene | 1.00 | 0.889 | | ug/L | | 89 | 51 - 127 | 1 | 35 |
| Chrysene | 1.00 | 0.865 | | ug/L | | 86 | 52 - 118 | 3 | 35 |
| Dibenz(a,h)anthracene | 1.00 | 0.950 | | ug/L | | 95 | 44 - 125 | 2 | 35 |
| Fluoranthene | 1.00 | 0.851 | | ug/L | | 85 | 51 - 116 | 8 | 35 |
| Fluorene | 1.00 | 0.762 | | ug/L | | 76 | 50 - 106 | 3 | 35 |
| Indeno[1,2,3-cd]pyrene | 1.00 | 0.955 | | ug/L | | 95 | 41 - 127 | 5 | 35 |
| Naphthalene | 1.00 | 0.664 | | ug/L | | 66 | 40 - 100 | 0 | 35 |
| Phenanthrene | 1.00 | 0.806 | | ug/L | | 81 | 49 - 110 | 4 | 35 |
| Pyrene | 1.00 | 0.849 | | ug/L | | 85 | 41 - 115 | 1 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *74* | | *31 - 120* |
| *Nitrobenzene-d5* | *66* | | *25 - 133* |
| *Terphenyl-d14* | *84* | | *10 - 120* |

## Method: 8015B - Diesel Range Organics (DRO) (GC) Low Level

**Lab Sample ID: MB 440-250952/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 251256** — **Prep Batch: 250952**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| C29-C40 | ND | | 0.050 | 0.025 | mg/L | | 04/24/15 08:21 | 04/27/15 08:54 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *81* | | *45 - 120* | *04/24/15 08:21* | *04/27/15 08:54* | *1* |

**Lab Sample ID: LCS 440-250952/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 251257** — **Prep Batch: 250952**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| C10-C28 | 1.00 | 0.866 | | mg/L | | 87 | 40 - 115 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *77* | | *45 - 120* |

**Lab Sample ID: LCSD 440-250952/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 251257** — **Prep Batch: 250952**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| C10-C28 | 1.00 | 0.912 | | mg/L | | 91 | 40 - 115 | 5 | 25 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *n-Octacosane* | *84* | | *45 - 120* |

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 440-250684/5** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250684**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate as NO3 | ND | | 0.50 | 0.25 | mg/L | | | 04/23/15 10:05 | 1 |

**Lab Sample ID: LCS 440-250684/2** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250684**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Nitrate as NO3 | 5.00 | 4.87 | | mg/L | | 97 | 90 - 110 |

**Lab Sample ID: MB 440-250685/5** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250685**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromide | ND | | 0.50 | 0.25 | mg/L | | | 04/23/15 10:05 | 1 |

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: MB 440-250685/5** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250685**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | ND | | 0.50 | 0.25 | mg/L | | | 04/23/15 10:05 | 1 |
| Fluoride | ND | | 0.50 | 0.25 | mg/L | | | 04/23/15 10:05 | 1 |
| Sulfate | ND | | 0.50 | 0.25 | mg/L | | | 04/23/15 10:05 | 1 |

**Lab Sample ID: LCS 440-250685/2** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250685**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Bromide | 5.00 | 4.99 | | mg/L | | 100 | 90 - 110 |
| Chloride | 5.00 | 4.79 | | mg/L | | 96 | 90 - 110 |
| Fluoride | 5.00 | 4.98 | | mg/L | | 100 | 90 - 110 |
| Sulfate | 5.00 | 4.60 | | mg/L | | 92 | 90 - 110 |

## Method: 300.0 - Anions, Ion Chromatography - DL

**Lab Sample ID: 440-107892-2 MS** — **Client Sample ID: W043**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250684**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate as NO3 - DL | ND | | 50.0 | 40.5 | | mg/L | | 81 | 80 - 120 |

**Lab Sample ID: 440-107892-2 MSD** — **Client Sample ID: W043**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250684**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate as NO3 - DL | ND | | 50.0 | 40.0 | | mg/L | | 80 | 80 - 120 | 1 | 20 |

**Lab Sample ID: 440-107892-2 MS** — **Client Sample ID: W043**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250685**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Bromide - DL | ND | | 50.0 | 43.4 | | mg/L | | 87 | 80 - 120 |
| Chloride - DL | 110 | F1 | 50.0 | 146 | F1 | mg/L | | 73 | 80 - 120 |
| Fluoride - DL | 3.0 | J F1 | 50.0 | 43.2 | | mg/L | | 80 | 80 - 120 |
| Sulfate - DL | ND | F1 | 50.0 | 40.2 | | mg/L | | 80 | 80 - 120 |

**Lab Sample ID: 440-107892-2 MSD** — **Client Sample ID: W043**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250685**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide - DL | ND | | 50.0 | 42.7 | | mg/L | | 85 | 80 - 120 | 2 | 20 |
| Chloride - DL | 110 | F1 | 50.0 | 145 | F1 | mg/L | | 69 | 80 - 120 | 1 | 20 |
| Fluoride - DL | 3.0 | J F1 | 50.0 | 42.6 | F1 | mg/L | | 79 | 80 - 120 | 1 | 20 |
| Sulfate - DL | ND | F1 | 50.0 | 38.8 | F1 | mg/L | | 78 | 80 - 120 | 4 | 20 |

## Method: 200.7 Rev 4.4 - Metals (ICP)

**Lab Sample ID: MB 440-250948/1-C**
**Matrix: Water**
**Analysis Batch: 251932**

**Client Sample ID: Method Blank**
**Prep Type: Dissolved**
**Prep Batch: 251794**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Boron | ND | | 0.050 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 13:59 | 1 |
| Calcium | ND | | 0.10 | 0.050 | mg/L | | 04/29/15 07:45 | 04/29/15 13:59 | 1 |
| Iron | ND | | 0.040 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 13:59 | 1 |
| Lithium | ND | | 0.50 | 0.025 | mg/L | | 04/29/15 07:45 | 04/29/15 13:59 | 1 |
| Magnesium | ND | | 0.020 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 13:59 | 1 |
| Manganese | ND | | 0.020 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 13:59 | 1 |
| Potassium | ND | | 0.50 | 0.25 | mg/L | | 04/29/15 07:45 | 04/29/15 13:59 | 1 |
| Sodium | ND | | 0.50 | 0.25 | mg/L | | 04/29/15 07:45 | 04/29/15 13:59 | 1 |
| Strontium | ND | | 0.020 | 0.010 | mg/L | | 04/29/15 07:45 | 04/29/15 13:59 | 1 |

**Lab Sample ID: LCS 440-250948/2-C**
**Matrix: Water**
**Analysis Batch: 251932**

**Client Sample ID: Lab Control Sample**
**Prep Type: Dissolved**
**Prep Batch: 251794**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Boron | 0.500 | 0.439 | | mg/L | | 88 | 85 - 115 |
| Calcium | 2.50 | 2.24 | | mg/L | | 90 | 85 - 115 |
| Iron | 0.500 | 0.450 | | mg/L | | 90 | 85 - 115 |
| Lithium | 0.500 | 0.485 | J | mg/L | | 97 | 85 - 115 |
| Magnesium | 2.50 | 2.25 | | mg/L | | 90 | 85 - 115 |
| Manganese | 0.500 | 0.475 | | mg/L | | 95 | 85 - 115 |
| Potassium | 5.00 | 4.60 | | mg/L | | 92 | 85 - 115 |
| Sodium | 5.00 | 4.60 | | mg/L | | 92 | 85 - 115 |
| Strontium | 0.500 | 0.452 | | mg/L | | 90 | 85 - 115 |

**Lab Sample ID: 440-107892-1 MS**
**Matrix: Water**
**Analysis Batch: 251932**

**Client Sample ID: W042**
**Prep Type: Dissolved**
**Prep Batch: 251794**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Boron | 0.68 | HF | 0.500 | 1.13 | | mg/L | | 90 | 70 - 130 |
| Calcium | 25 | HF | 2.50 | 26.2 | 4 | mg/L | | 31 | 70 - 130 |
| Iron | 0.040 | HF | 0.500 | 0.477 | | mg/L | | 87 | 70 - 130 |
| Lithium | 0.042 | J HF | 0.500 | 0.456 | J | mg/L | | 83 | 70 - 130 |
| Magnesium | 4.5 | HF | 2.50 | 6.70 | | mg/L | | 87 | 70 - 130 |
| Manganese | 0.079 | HF | 0.500 | 0.544 | | mg/L | | 93 | 70 - 130 |
| Potassium | 5.5 | HF | 5.00 | 9.75 | | mg/L | | 85 | 70 - 130 |
| Sodium | 110 | HF | 5.00 | 116 | 4 | mg/L | | 45 | 70 - 130 |
| Strontium | 0.37 | HF | 0.500 | 0.812 | | mg/L | | 89 | 70 - 130 |

**Lab Sample ID: 440-107892-1 MSD**
**Matrix: Water**
**Analysis Batch: 251932**

**Client Sample ID: W042**
**Prep Type: Dissolved**
**Prep Batch: 251794**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Boron | 0.68 | HF | 0.500 | 1.15 | | mg/L | | 94 | 70 - 130 | 2 | 20 |
| Calcium | 25 | HF | 2.50 | 26.9 | 4 | mg/L | | 57 | 70 - 130 | 2 | 20 |
| Iron | 0.040 | HF | 0.500 | 0.487 | | mg/L | | 89 | 70 - 130 | 2 | 20 |
| Lithium | 0.042 | J HF | 0.500 | 0.463 | J | mg/L | | 84 | 70 - 130 | 1 | 20 |

## Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

**Lab Sample ID: 440-107892-1 MSD** — **Client Sample ID: W042**
**Matrix: Water** — **Prep Type: Dissolved**
**Analysis Batch: 251932** — **Prep Batch: 251794**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Magnesium | 4.5 | HF | 2.50 | 6.81 | | mg/L | | 91 | 70 - 130 | 2 | 20 |
| Manganese | 0.079 | HF | 0.500 | 0.551 | | mg/L | | 94 | 70 - 130 | 1 | 20 |
| Potassium | 5.5 | HF | 5.00 | 9.98 | | mg/L | | 90 | 70 - 130 | 2 | 20 |
| Sodium | 110 | HF | 5.00 | 119 | 4 | mg/L | | 102 | 70 - 130 | 2 | 20 |
| Strontium | 0.37 | HF | 0.500 | 0.832 | | mg/L | | 93 | 70 - 130 | 2 | 20 |

## Method: 200.8 - Metals (ICP/MS)

**Lab Sample ID: MB 440-250948/1-D** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Dissolved**
**Analysis Batch: 251942** — **Prep Batch: 251795**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Uranium | ND | | 1.0 | 0.50 | ug/L | | 04/29/15 07:48 | 04/29/15 14:33 | 1 |

**Lab Sample ID: LCS 440-250948/2-D** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Dissolved**
**Analysis Batch: 251942** — **Prep Batch: 251795**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Uranium | 80.0 | 72.6 | | ug/L | | 91 | 85 - 115 |

**Lab Sample ID: 440-107892-2 MS** — **Client Sample ID: W043**
**Matrix: Water** — **Prep Type: Dissolved**
**Analysis Batch: 251942** — **Prep Batch: 251795**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Uranium | ND | HF | 80.0 | 74.2 | | ug/L | | 93 | 70 - 130 |

**Lab Sample ID: 440-107892-2 MSD** — **Client Sample ID: W043**
**Matrix: Water** — **Prep Type: Dissolved**
**Analysis Batch: 251942** — **Prep Batch: 251795**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Uranium | ND | HF | 80.0 | 73.1 | | ug/L | | 91 | 70 - 130 | 1 | 20 |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 440-250948/1-E** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Dissolved**
**Analysis Batch: 251945** — **Prep Batch: 251796**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 0.00679 | J | 0.010 | 0.0060 | mg/L | | 04/29/15 07:50 | 04/29/15 13:57 | 1 |
| Arsenic | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 13:57 | 1 |
| Barium | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 13:57 | 1 |
| Beryllium | ND | | 0.0020 | 0.0010 | mg/L | | 04/29/15 07:50 | 04/29/15 13:57 | 1 |
| Cadmium | ND | | 0.0050 | 0.0020 | mg/L | | 04/29/15 07:50 | 04/29/15 13:57 | 1 |
| Chromium | ND | | 0.0050 | 0.0025 | mg/L | | 04/29/15 07:50 | 04/29/15 13:57 | 1 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 440-250948/1-E**
**Matrix: Water**
**Analysis Batch: 251945**

**Client Sample ID: Method Blank**
**Prep Type: Dissolved**
**Prep Batch: 251796**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cobalt | ND | | 0.010 | 0.0025 | mg/L | | 04/29/15 07:50 | 04/29/15 13:57 | 1 |
| Copper | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 13:57 | 1 |
| Lead | ND | | 0.0050 | 0.0025 | mg/L | | 04/29/15 07:50 | 04/29/15 13:57 | 1 |
| Molybdenum | ND | | 0.020 | 0.010 | mg/L | | 04/29/15 07:50 | 04/29/15 13:57 | 1 |
| Nickel | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 13:57 | 1 |
| Selenium | ND | | 0.010 | 0.0061 | mg/L | | 04/29/15 07:50 | 04/29/15 13:57 | 1 |
| Silver | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 13:57 | 1 |
| Thallium | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 13:57 | 1 |
| Vanadium | ND | | 0.010 | 0.0050 | mg/L | | 04/29/15 07:50 | 04/29/15 13:57 | 1 |
| Zinc | ND | | 0.020 | 0.010 | mg/L | | 04/29/15 07:50 | 04/29/15 13:57 | 1 |

**Lab Sample ID: LCS 440-250948/2-E**
**Matrix: Water**
**Analysis Batch: 251945**

**Client Sample ID: Lab Control Sample**
**Prep Type: Dissolved**
**Prep Batch: 251796**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Antimony | 1.00 | 0.996 | | mg/L | | 100 | 80 - 120 |
| Arsenic | 1.00 | 0.924 | | mg/L | | 92 | 80 - 120 |
| Barium | 1.00 | 0.987 | | mg/L | | 99 | 80 - 120 |
| Beryllium | 1.00 | 0.984 | | mg/L | | 98 | 80 - 120 |
| Cadmium | 1.00 | 0.979 | | mg/L | | 98 | 80 - 120 |
| Chromium | 1.00 | 0.942 | | mg/L | | 94 | 80 - 120 |
| Cobalt | 1.00 | 0.949 | | mg/L | | 95 | 80 - 120 |
| Copper | 1.00 | 1.00 | | mg/L | | 100 | 80 - 120 |
| Lead | 1.00 | 0.993 | | mg/L | | 99 | 80 - 120 |
| Molybdenum | 1.00 | 0.956 | | mg/L | | 96 | 80 - 120 |
| Nickel | 1.00 | 0.948 | | mg/L | | 95 | 80 - 120 |
| Selenium | 1.00 | 0.921 | | mg/L | | 92 | 80 - 120 |
| Silver | 0.500 | 0.501 | | mg/L | | 100 | 80 - 120 |
| Thallium | 1.00 | 0.959 | | mg/L | | 96 | 80 - 120 |
| Vanadium | 1.00 | 0.984 | | mg/L | | 98 | 80 - 120 |
| Zinc | 1.00 | 0.949 | | mg/L | | 95 | 80 - 120 |

**Lab Sample ID: 440-107892-3 MS**
**Matrix: Water**
**Analysis Batch: 251945**

**Client Sample ID: W044**
**Prep Type: Dissolved**
**Prep Batch: 251796**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 0.0089 | J B | 1.00 | 1.06 | | mg/L | | 105 | 75 - 125 |
| Arsenic | 0.014 | | 1.00 | 1.01 | | mg/L | | 100 | 75 - 125 |
| Barium | 0.094 | | 1.00 | 1.14 | | mg/L | | 105 | 75 - 125 |
| Beryllium | ND | | 1.00 | 1.07 | | mg/L | | 107 | 75 - 125 |
| Cadmium | ND | | 1.00 | 1.04 | | mg/L | | 104 | 75 - 125 |
| Chromium | ND | | 1.00 | 1.06 | | mg/L | | 106 | 75 - 125 |
| Cobalt | ND | | 1.00 | 1.05 | | mg/L | | 105 | 75 - 125 |
| Copper | ND | | 1.00 | 1.10 | | mg/L | | 110 | 75 - 125 |
| Lead | ND | | 1.00 | 1.03 | | mg/L | | 103 | 75 - 125 |
| Molybdenum | ND | | 1.00 | 1.06 | | mg/L | | 106 | 75 - 125 |
| Nickel | ND | | 1.00 | 1.03 | | mg/L | | 103 | 75 - 125 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 440-107892-3 MS**
**Matrix: Water**
**Analysis Batch: 251945**

**Client Sample ID: W044**
**Prep Type: Dissolved**
**Prep Batch: 251796**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Selenium | ND | | 1.00 | 0.988 | | mg/L | | 99 | 75 - 125 |
| Silver | ND | | 0.500 | 0.541 | | mg/L | | 108 | 75 - 125 |
| Thallium | 0.0091 | J | 1.00 | 1.00 | | mg/L | | 99 | 75 - 125 |
| Vanadium | ND | | 1.00 | 1.05 | | mg/L | | 105 | 75 - 125 |
| Zinc | ND | | 1.00 | 1.02 | | mg/L | | 102 | 75 - 125 |

**Lab Sample ID: 440-107892-3 MSD**
**Matrix: Water**
**Analysis Batch: 251945**

**Client Sample ID: W044**
**Prep Type: Dissolved**
**Prep Batch: 251796**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 0.0089 | J B | 1.00 | 1.03 | | mg/L | | 102 | 75 - 125 | 3 | 20 |
| Arsenic | 0.014 | | 1.00 | 0.985 | | mg/L | | 97 | 75 - 125 | 3 | 20 |
| Barium | 0.094 | | 1.00 | 1.11 | | mg/L | | 102 | 75 - 125 | 3 | 20 |
| Beryllium | ND | | 1.00 | 1.04 | | mg/L | | 104 | 75 - 125 | 2 | 20 |
| Cadmium | ND | | 1.00 | 1.02 | | mg/L | | 102 | 75 - 125 | 2 | 20 |
| Chromium | ND | | 1.00 | 1.04 | | mg/L | | 104 | 75 - 125 | 2 | 20 |
| Cobalt | ND | | 1.00 | 1.02 | | mg/L | | 102 | 75 - 125 | 2 | 20 |
| Copper | ND | | 1.00 | 1.06 | | mg/L | | 106 | 75 - 125 | 4 | 20 |
| Lead | ND | | 1.00 | 1.01 | | mg/L | | 101 | 75 - 125 | 2 | 20 |
| Molybdenum | ND | | 1.00 | 1.04 | | mg/L | | 104 | 75 - 125 | 2 | 20 |
| Nickel | ND | | 1.00 | 1.01 | | mg/L | | 101 | 75 - 125 | 2 | 20 |
| Selenium | ND | | 1.00 | 0.970 | | mg/L | | 97 | 75 - 125 | 2 | 20 |
| Silver | ND | | 0.500 | 0.525 | | mg/L | | 105 | 75 - 125 | 3 | 20 |
| Thallium | 0.0091 | J | 1.00 | 0.983 | | mg/L | | 97 | 75 - 125 | 2 | 20 |
| Vanadium | ND | | 1.00 | 1.02 | | mg/L | | 102 | 75 - 125 | 3 | 20 |
| Zinc | ND | | 1.00 | 0.997 | | mg/L | | 100 | 75 - 125 | 3 | 20 |

**Lab Sample ID: MB 440-251242/1-A ^20**
**Matrix: Water**
**Analysis Batch: 251585**

**Client Sample ID: Method Blank**
**Prep Type: STLC Citrate**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 0.20 | 0.12 | mg/L | | | 04/28/15 11:10 | 20 |
| Arsenic | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:10 | 20 |
| Barium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:10 | 20 |
| Beryllium | ND | | 0.040 | 0.020 | mg/L | | | 04/28/15 11:10 | 20 |
| Cadmium | ND | | 0.10 | 0.040 | mg/L | | | 04/28/15 11:10 | 20 |
| Chromium | ND | | 0.10 | 0.050 | mg/L | | | 04/28/15 11:10 | 20 |
| Cobalt | ND | | 0.20 | 0.050 | mg/L | | | 04/28/15 11:10 | 20 |
| Copper | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:10 | 20 |
| Lead | ND | | 0.10 | 0.050 | mg/L | | | 04/28/15 11:10 | 20 |
| Molybdenum | ND | | 0.40 | 0.20 | mg/L | | | 04/28/15 11:10 | 20 |
| Nickel | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:10 | 20 |
| Selenium | ND | | 0.20 | 0.12 | mg/L | | | 04/28/15 11:10 | 20 |
| Silver | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:10 | 20 |
| Thallium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:10 | 20 |
| Vanadium | ND | | 0.20 | 0.10 | mg/L | | | 04/28/15 11:10 | 20 |
| Zinc | ND | | 0.40 | 0.20 | mg/L | | | 04/28/15 11:10 | 20 |

# QC Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

**Lab Sample ID: LCS 440-251242/2-A ^20**
**Matrix: Water**
**Analysis Batch: 251585**

**Client Sample ID: Lab Control Sample**
**Prep Type: STLC Citrate**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Antimony | 20.0 | 19.7 | | mg/L | | 99 | 80 - 120 |
| Arsenic | 20.0 | 19.6 | | mg/L | | 98 | 80 - 120 |
| Barium | 20.0 | 19.4 | | mg/L | | 97 | 80 - 120 |
| Beryllium | 20.0 | 19.3 | | mg/L | | 97 | 80 - 120 |
| Cadmium | 20.0 | 19.3 | | mg/L | | 97 | 80 - 120 |
| Chromium | 20.0 | 18.1 | | mg/L | | 90 | 80 - 120 |
| Cobalt | 20.0 | 18.5 | | mg/L | | 92 | 80 - 120 |
| Copper | 20.0 | 19.9 | | mg/L | | 99 | 80 - 120 |
| Lead | 20.0 | 19.7 | | mg/L | | 99 | 80 - 120 |
| Molybdenum | 20.0 | 18.9 | | mg/L | | 94 | 80 - 120 |
| Nickel | 20.0 | 18.7 | | mg/L | | 94 | 80 - 120 |
| Selenium | 20.0 | 19.4 | | mg/L | | 97 | 80 - 120 |
| Silver | 10.0 | 9.52 | | mg/L | | 95 | 80 - 120 |
| Thallium | 20.0 | 19.5 | | mg/L | | 98 | 80 - 120 |
| Vanadium | 20.0 | 19.7 | | mg/L | | 98 | 80 - 120 |
| Zinc | 20.0 | 19.2 | | mg/L | | 96 | 80 - 120 |

**Lab Sample ID: 440-107774-E-1-A MS ^20**
**Matrix: Water**
**Analysis Batch: 251585**

**Client Sample ID: Matrix Spike**
**Prep Type: STLC Citrate**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 0.15 | J | 20.0 | 20.9 | | mg/L | | 104 | 75 - 125 |
| Arsenic | ND | | 20.0 | 20.8 | | mg/L | | 104 | 75 - 125 |
| Barium | 0.10 | J | 20.0 | 20.7 | | mg/L | | 103 | 75 - 125 |
| Beryllium | ND | | 20.0 | 20.5 | | mg/L | | 102 | 75 - 125 |
| Cadmium | ND | | 20.0 | 20.6 | | mg/L | | 103 | 75 - 125 |
| Chromium | ND | | 20.0 | 19.3 | | mg/L | | 96 | 75 - 125 |
| Cobalt | ND | | 20.0 | 19.7 | | mg/L | | 98 | 75 - 125 |
| Copper | ND | | 20.0 | 21.1 | | mg/L | | 106 | 75 - 125 |
| Lead | ND | | 20.0 | 20.8 | | mg/L | | 104 | 75 - 125 |
| Molybdenum | 0.35 | J | 20.0 | 20.1 | | mg/L | | 99 | 75 - 125 |
| Nickel | ND | | 20.0 | 19.9 | | mg/L | | 99 | 75 - 125 |
| Selenium | 0.16 | J | 20.0 | 20.5 | | mg/L | | 102 | 75 - 125 |
| Silver | ND | | 10.0 | 9.73 | | mg/L | | 97 | 75 - 125 |
| Thallium | ND | | 20.0 | 20.5 | | mg/L | | 103 | 75 - 125 |
| Vanadium | ND | | 20.0 | 20.9 | | mg/L | | 104 | 75 - 125 |
| Zinc | ND | | 20.0 | 20.4 | | mg/L | | 102 | 75 - 125 |

**Lab Sample ID: 440-107774-E-1-A MSD ^20**
**Matrix: Water**
**Analysis Batch: 251585**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: STLC Citrate**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 0.15 | J | 20.0 | 20.6 | | mg/L | | 102 | 75 - 125 | 1 | 20 |
| Arsenic | ND | | 20.0 | 20.5 | | mg/L | | 102 | 75 - 125 | 2 | 20 |
| Barium | 0.10 | J | 20.0 | 20.2 | | mg/L | | 101 | 75 - 125 | 2 | 20 |
| Beryllium | ND | | 20.0 | 20.5 | | mg/L | | 102 | 75 - 125 | 0 | 20 |
| Cadmium | ND | | 20.0 | 20.2 | | mg/L | | 101 | 75 - 125 | 2 | 20 |
| Chromium | ND | | 20.0 | 18.9 | | mg/L | | 95 | 75 - 125 | 2 | 20 |
| Cobalt | ND | | 20.0 | 19.3 | | mg/L | | 97 | 75 - 125 | 2 | 20 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 440-107774-E-1-A MSD ^20**
**Matrix: Water**
**Analysis Batch: 251585**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: STLC Citrate**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Copper | ND | | 20.0 | 20.8 | | mg/L | | 104 | 75 - 125 | 2 | 20 |
| Lead | ND | | 20.0 | 20.6 | | mg/L | | 103 | 75 - 125 | 1 | 20 |
| Molybdenum | 0.35 | J | 20.0 | 20.0 | | mg/L | | 98 | 75 - 125 | 0 | 20 |
| Nickel | ND | | 20.0 | 19.5 | | mg/L | | 98 | 75 - 125 | 2 | 20 |
| Selenium | 0.16 | J | 20.0 | 20.3 | | mg/L | | 100 | 75 - 125 | 1 | 20 |
| Silver | ND | | 10.0 | 9.54 | | mg/L | | 95 | 75 - 125 | 2 | 20 |
| Thallium | ND | | 20.0 | 20.2 | | mg/L | | 101 | 75 - 125 | 2 | 20 |
| Vanadium | ND | | 20.0 | 20.7 | | mg/L | | 103 | 75 - 125 | 1 | 20 |
| Zinc | ND | | 20.0 | 20.0 | | mg/L | | 100 | 75 - 125 | 2 | 20 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 440-250948/1-B**
**Matrix: Water**
**Analysis Batch: 251338**

**Client Sample ID: Method Blank**
**Prep Type: Dissolved**
**Prep Batch: 251070**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.00010 | mg/L | | 04/24/15 15:01 | 04/25/15 02:23 | 1 |

**Lab Sample ID: LCS 440-250948/2-B**
**Matrix: Water**
**Analysis Batch: 251338**

**Client Sample ID: Lab Control Sample**
**Prep Type: Dissolved**
**Prep Batch: 251070**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.00800 | 0.00877 | | mg/L | | 110 | 80 - 120 |

**Lab Sample ID: 440-107892-1 MS**
**Matrix: Water**
**Analysis Batch: 251338**

**Client Sample ID: W042**
**Prep Type: Dissolved**
**Prep Batch: 251070**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00800 | 0.00863 | | mg/L | | 108 | 70 - 130 |

**Lab Sample ID: 440-107892-1 MSD**
**Matrix: Water**
**Analysis Batch: 251338**

**Client Sample ID: W042**
**Prep Type: Dissolved**
**Prep Batch: 251070**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00800 | 0.00868 | | mg/L | | 108 | 70 - 130 | 1 | 20 |

**Lab Sample ID: MB 440-251242/1-B**
**Matrix: Water**
**Analysis Batch: 251694**

**Client Sample ID: Method Blank**
**Prep Type: STLC Citrate**
**Prep Batch: 251449**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0020 | 0.0010 | mg/L | | 04/27/15 17:39 | 04/28/15 16:49 | 1 |

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: LCS 440-251242/2-B** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: STLC Citrate**
**Analysis Batch: 251694** — **Prep Batch: 251449**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.0800 | 0.0866 | | mg/L | | 108 | 80 - 120 |

**Lab Sample ID: 440-107892-1 MS** — **Client Sample ID: W042**
**Matrix: Water** — **Prep Type: STLC Citrate**
**Analysis Batch: 251694** — **Prep Batch: 251449**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0800 | 0.0857 | | mg/L | | 107 | 70 - 130 |

**Lab Sample ID: 440-107892-1 MSD** — **Client Sample ID: W042**
**Matrix: Water** — **Prep Type: STLC Citrate**
**Analysis Batch: 251694** — **Prep Batch: 251449**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0800 | 0.0864 | | mg/L | | 108 | 70 - 130 | 1 | 20 |

## Method: SM 2320B - Alkalinity

**Lab Sample ID: MB 440-250933/3** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250933**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/24/15 05:52 | 1 |
| Bicarbonate Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/24/15 05:52 | 1 |
| Carbonate Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/24/15 05:52 | 1 |
| Hydroxide Alkalinity as CaCO3 | ND | | 4.0 | 4.0 | mg/L | | | 04/24/15 05:52 | 1 |

**Lab Sample ID: LCS 440-250933/2** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250933**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity as CaCO3 | 85.4 | 86.4 | | mg/L | | 101 | 80 - 120 |

**Lab Sample ID: 440-107892-4 DU** — **Client Sample ID: W045**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 250933**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Alkalinity as CaCO3 | 220 | | 220 | | mg/L | | 0.4 | 20 |
| Bicarbonate Alkalinity as CaCO3 | 220 | | 220 | | mg/L | | 0.4 | 20 |
| Carbonate Alkalinity as CaCO3 | ND | | ND | | mg/L | | NC | 20 |
| Hydroxide Alkalinity as CaCO3 | ND | | ND | | mg/L | | NC | 20 |

# QC Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 440-251526/1**
**Matrix: Water**
**Analysis Batch: 251526**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | ND | | 10 | 5.0 | mg/L | | | 04/28/15 08:13 | 1 |

**Lab Sample ID: LCS 440-251526/2**
**Matrix: Water**
**Analysis Batch: 251526**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | | 1000 | 1010 | | mg/L | | 101 | 90 - 110 | | |

**Lab Sample ID: 440-107892-1 DU**
**Matrix: Water**
**Analysis Batch: 251526**

**Client Sample ID: W042**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 490 | | | 483 | | mg/L | | | | 2 | 5 |

# QC Association Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## GC/MS VOA

### Analysis Batch: 251420

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107813-A-3 MS | Matrix Spike | Total/NA | Water | 8260B | |
| 440-107813-A-3 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B | |
| 440-107892-1 | W042 | Total/NA | Water | 8260B | |
| LCS 440-251420/5 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 440-251420/4 | Method Blank | Total/NA | Water | 8260B | |

### Analysis Batch: 251505

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-2 | W043 | Total/NA | Water | 8260B | |
| 440-107892-3 | W044 | Total/NA | Water | 8260B | |
| 440-107892-4 | W045 | Total/NA | Water | 8260B | |
| 440-107928-B-1 MS | Matrix Spike | Total/NA | Water | 8260B | |
| 440-107928-B-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B | |
| LCS 440-251505/4 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 440-251505/3 | Method Blank | Total/NA | Water | 8260B | |

## GC/MS Semi VOA

### Prep Batch: 251224

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Total/NA | Water | 3520C | |
| 440-107892-2 | W043 | Total/NA | Water | 3520C | |
| 440-107892-3 | W044 | Total/NA | Water | 3520C | |
| 440-107892-4 | W045 | Total/NA | Water | 3520C | |
| LCS 440-251224/2-A | Lab Control Sample | Total/NA | Water | 3520C | |
| LCSD 440-251224/3-A | Lab Control Sample Dup | Total/NA | Water | 3520C | |
| MB 440-251224/1-A | Method Blank | Total/NA | Water | 3520C | |

### Analysis Batch: 251421

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Total/NA | Water | 8270C SIM | 251224 |
| 440-107892-2 | W043 | Total/NA | Water | 8270C SIM | 251224 |
| 440-107892-3 | W044 | Total/NA | Water | 8270C SIM | 251224 |
| 440-107892-4 | W045 | Total/NA | Water | 8270C SIM | 251224 |
| LCS 440-251224/2-A | Lab Control Sample | Total/NA | Water | 8270C SIM | 251224 |
| LCSD 440-251224/3-A | Lab Control Sample Dup | Total/NA | Water | 8270C SIM | 251224 |
| MB 440-251224/1-A | Method Blank | Total/NA | Water | 8270C SIM | 251224 |

## GC Semi VOA

### Prep Batch: 250952

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Total/NA | Water | 3510C | |
| 440-107892-2 | W043 | Total/NA | Water | 3510C | |
| 440-107892-3 | W044 | Total/NA | Water | 3510C | |
| 440-107892-4 | W045 | Total/NA | Water | 3510C | |
| LCS 440-250952/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 440-250952/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| MB 440-250952/1-A | Method Blank | Total/NA | Water | 3510C | |

## GC Semi VOA (Continued)

### Analysis Batch: 251256

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 440-250952/1-A | Method Blank | Total/NA | Water | 8015B | 250952 |

### Analysis Batch: 251257

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Total/NA | Water | 8015B | 250952 |
| 440-107892-2 | W043 | Total/NA | Water | 8015B | 250952 |
| 440-107892-3 | W044 | Total/NA | Water | 8015B | 250952 |
| 440-107892-4 | W045 | Total/NA | Water | 8015B | 250952 |
| LCS 440-250952/2-A | Lab Control Sample | Total/NA | Water | 8015B | 250952 |
| LCSD 440-250952/3-A | Lab Control Sample Dup | Total/NA | Water | 8015B | 250952 |

## HPLC/IC

### Analysis Batch: 250684

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Total/NA | Water | 300.0 | |
| 440-107892-2 | W043 | Total/NA | Water | 300.0 | |
| 440-107892-2 - DL | W043 | Total/NA | Water | 300.0 | |
| 440-107892-2 MS - DL | W043 | Total/NA | Water | 300.0 | |
| 440-107892-2 MSD - DL | W043 | Total/NA | Water | 300.0 | |
| 440-107892-3 | W044 | Total/NA | Water | 300.0 | |
| 440-107892-4 | W045 | Total/NA | Water | 300.0 | |
| LCS 440-250684/2 | Lab Control Sample | Total/NA | Water | 300.0 | |
| MB 440-250684/5 | Method Blank | Total/NA | Water | 300.0 | |

### Analysis Batch: 250685

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Total/NA | Water | 300.0 | |
| 440-107892-1 | W042 | Total/NA | Water | 300.0 | |
| 440-107892-2 | W043 | Total/NA | Water | 300.0 | |
| 440-107892-2 - DL | W043 | Total/NA | Water | 300.0 | |
| 440-107892-2 MS - DL | W043 | Total/NA | Water | 300.0 | |
| 440-107892-2 MSD - DL | W043 | Total/NA | Water | 300.0 | |
| 440-107892-3 | W044 | Total/NA | Water | 300.0 | |
| 440-107892-3 | W044 | Total/NA | Water | 300.0 | |
| 440-107892-4 | W045 | Total/NA | Water | 300.0 | |
| 440-107892-4 | W045 | Total/NA | Water | 300.0 | |
| LCS 440-250685/2 | Lab Control Sample | Total/NA | Water | 300.0 | |
| MB 440-250685/5 | Method Blank | Total/NA | Water | 300.0 | |

## Metals

### Filtration Batch: 250948

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Dissolved | Water | FILTRATION | |
| 440-107892-1 MS | W042 | Dissolved | Water | FILTRATION | |
| 440-107892-1 MSD | W042 | Dissolved | Water | FILTRATION | |
| 440-107892-2 | W043 | Dissolved | Water | FILTRATION | |
| 440-107892-2 MS | W043 | Dissolved | Water | FILTRATION | |
| 440-107892-2 MSD | W043 | Dissolved | Water | FILTRATION | |

## Metals (Continued)

### Filtration Batch: 250948 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-3 | W044 | Dissolved | Water | FILTRATION | |
| 440-107892-3 MS | W044 | Dissolved | Water | FILTRATION | |
| 440-107892-3 MSD | W044 | Dissolved | Water | FILTRATION | |
| 440-107892-4 | W045 | Dissolved | Water | FILTRATION | |
| LCS 440-250948/2-B | Lab Control Sample | Dissolved | Water | FILTRATION | |
| LCS 440-250948/2-C | Lab Control Sample | Dissolved | Water | FILTRATION | |
| LCS 440-250948/2-D | Lab Control Sample | Dissolved | Water | FILTRATION | |
| LCS 440-250948/2-E | Lab Control Sample | Dissolved | Water | FILTRATION | |
| MB 440-250948/1-B | Method Blank | Dissolved | Water | FILTRATION | |
| MB 440-250948/1-C | Method Blank | Dissolved | Water | FILTRATION | |
| MB 440-250948/1-D | Method Blank | Dissolved | Water | FILTRATION | |
| MB 440-250948/1-E | Method Blank | Dissolved | Water | FILTRATION | |

### Prep Batch: 251070

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Dissolved | Water | 7470A | 250948 |
| 440-107892-1 MS | W042 | Dissolved | Water | 7470A | 250948 |
| 440-107892-1 MSD | W042 | Dissolved | Water | 7470A | 250948 |
| 440-107892-2 | W043 | Dissolved | Water | 7470A | 250948 |
| 440-107892-3 | W044 | Dissolved | Water | 7470A | 250948 |
| 440-107892-4 | W045 | Dissolved | Water | 7470A | 250948 |
| LCS 440-250948/2-B | Lab Control Sample | Dissolved | Water | 7470A | 250948 |
| MB 440-250948/1-B | Method Blank | Dissolved | Water | 7470A | 250948 |

### Leach Batch: 251242

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-E-1-A MS ^20 | Matrix Spike | STLC Citrate | Water | CA WET Citrate | |
| 440-107774-E-1-A MSD ^20 | Matrix Spike Duplicate | STLC Citrate | Water | CA WET Citrate | |
| 440-107892-1 | W042 | STLC Citrate | Water | CA WET Citrate | |
| 440-107892-1 MS | W042 | STLC Citrate | Water | CA WET Citrate | |
| 440-107892-1 MSD | W042 | STLC Citrate | Water | CA WET Citrate | |
| 440-107892-2 | W043 | STLC Citrate | Water | CA WET Citrate | |
| 440-107892-3 | W044 | STLC Citrate | Water | CA WET Citrate | |
| 440-107892-4 | W045 | STLC Citrate | Water | CA WET Citrate | |
| LCS 440-251242/2-A ^20 | Lab Control Sample | STLC Citrate | Water | CA WET Citrate | |
| LCS 440-251242/2-B | Lab Control Sample | STLC Citrate | Water | CA WET Citrate | |
| MB 440-251242/1-A ^20 | Method Blank | STLC Citrate | Water | CA WET Citrate | |
| MB 440-251242/1-B | Method Blank | STLC Citrate | Water | CA WET Citrate | |

### Analysis Batch: 251338

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Dissolved | Water | 7470A | 251070 |
| 440-107892-1 MS | W042 | Dissolved | Water | 7470A | 251070 |
| 440-107892-1 MSD | W042 | Dissolved | Water | 7470A | 251070 |
| 440-107892-2 | W043 | Dissolved | Water | 7470A | 251070 |
| 440-107892-3 | W044 | Dissolved | Water | 7470A | 251070 |
| 440-107892-4 | W045 | Dissolved | Water | 7470A | 251070 |
| LCS 440-250948/2-B | Lab Control Sample | Dissolved | Water | 7470A | 251070 |
| MB 440-250948/1-B | Method Blank | Dissolved | Water | 7470A | 251070 |

## Metals (Continued)

### Prep Batch: 251449

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | STLC Citrate | Water | 7470A | 251242 |
| 440-107892-1 MS | W042 | STLC Citrate | Water | 7470A | 251242 |
| 440-107892-1 MSD | W042 | STLC Citrate | Water | 7470A | 251242 |
| 440-107892-2 | W043 | STLC Citrate | Water | 7470A | 251242 |
| 440-107892-3 | W044 | STLC Citrate | Water | 7470A | 251242 |
| 440-107892-4 | W045 | STLC Citrate | Water | 7470A | 251242 |
| LCS 440-251242/2-B | Lab Control Sample | STLC Citrate | Water | 7470A | 251242 |
| MB 440-251242/1-B | Method Blank | STLC Citrate | Water | 7470A | 251242 |

### Analysis Batch: 251585

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107774-E-1-A MS ^20 | Matrix Spike | STLC Citrate | Water | 6010B | 251242 |
| 440-107774-E-1-A MSD ^20 | Matrix Spike Duplicate | STLC Citrate | Water | 6010B | 251242 |
| 440-107892-1 | W042 | STLC Citrate | Water | 6010B | 251242 |
| 440-107892-2 | W043 | STLC Citrate | Water | 6010B | 251242 |
| 440-107892-3 | W044 | STLC Citrate | Water | 6010B | 251242 |
| 440-107892-4 | W045 | STLC Citrate | Water | 6010B | 251242 |
| LCS 440-251242/2-A ^20 | Lab Control Sample | STLC Citrate | Water | 6010B | 251242 |
| MB 440-251242/1-A ^20 | Method Blank | STLC Citrate | Water | 6010B | 251242 |

### Analysis Batch: 251694

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | STLC Citrate | Water | 7470A | 251449 |
| 440-107892-1 MS | W042 | STLC Citrate | Water | 7470A | 251449 |
| 440-107892-1 MSD | W042 | STLC Citrate | Water | 7470A | 251449 |
| 440-107892-2 | W043 | STLC Citrate | Water | 7470A | 251449 |
| 440-107892-3 | W044 | STLC Citrate | Water | 7470A | 251449 |
| 440-107892-4 | W045 | STLC Citrate | Water | 7470A | 251449 |
| LCS 440-251242/2-B | Lab Control Sample | STLC Citrate | Water | 7470A | 251449 |
| MB 440-251242/1-B | Method Blank | STLC Citrate | Water | 7470A | 251449 |

### Prep Batch: 251794

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Dissolved | Water | 200.2 | 250948 |
| 440-107892-1 MS | W042 | Dissolved | Water | 200.2 | 250948 |
| 440-107892-1 MSD | W042 | Dissolved | Water | 200.2 | 250948 |
| 440-107892-2 | W043 | Dissolved | Water | 200.2 | 250948 |
| 440-107892-3 | W044 | Dissolved | Water | 200.2 | 250948 |
| 440-107892-4 | W045 | Dissolved | Water | 200.2 | 250948 |
| LCS 440-250948/2-C | Lab Control Sample | Dissolved | Water | 200.2 | 250948 |
| MB 440-250948/1-C | Method Blank | Dissolved | Water | 200.2 | 250948 |

### Prep Batch: 251795

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Dissolved | Water | 200.2 | 250948 |
| 440-107892-2 | W043 | Dissolved | Water | 200.2 | 250948 |
| 440-107892-2 MS | W043 | Dissolved | Water | 200.2 | 250948 |
| 440-107892-2 MSD | W043 | Dissolved | Water | 200.2 | 250948 |
| 440-107892-3 | W044 | Dissolved | Water | 200.2 | 250948 |
| 440-107892-4 | W045 | Dissolved | Water | 200.2 | 250948 |
| LCS 440-250948/2-D | Lab Control Sample | Dissolved | Water | 200.2 | 250948 |

## Metals (Continued)

### Prep Batch: 251795 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 440-250948/1-D | Method Blank | Dissolved | Water | 200.2 | 250948 |

### Prep Batch: 251796

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Dissolved | Water | 3005A | 250948 |
| 440-107892-2 | W043 | Dissolved | Water | 3005A | 250948 |
| 440-107892-3 | W044 | Dissolved | Water | 3005A | 250948 |
| 440-107892-3 MS | W044 | Dissolved | Water | 3005A | 250948 |
| 440-107892-3 MSD | W044 | Dissolved | Water | 3005A | 250948 |
| 440-107892-4 | W045 | Dissolved | Water | 3005A | 250948 |
| LCS 440-250948/2-E | Lab Control Sample | Dissolved | Water | 3005A | 250948 |
| MB 440-250948/1-E | Method Blank | Dissolved | Water | 3005A | 250948 |

### Analysis Batch: 251932

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Dissolved | Water | 200.7 Rev 4.4 | 251794 |
| 440-107892-1 MS | W042 | Dissolved | Water | 200.7 Rev 4.4 | 251794 |
| 440-107892-1 MSD | W042 | Dissolved | Water | 200.7 Rev 4.4 | 251794 |
| 440-107892-2 | W043 | Dissolved | Water | 200.7 Rev 4.4 | 251794 |
| 440-107892-3 | W044 | Dissolved | Water | 200.7 Rev 4.4 | 251794 |
| 440-107892-4 | W045 | Dissolved | Water | 200.7 Rev 4.4 | 251794 |
| LCS 440-250948/2-C | Lab Control Sample | Dissolved | Water | 200.7 Rev 4.4 | 251794 |
| MB 440-250948/1-C | Method Blank | Dissolved | Water | 200.7 Rev 4.4 | 251794 |

### Analysis Batch: 251942

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Dissolved | Water | 200.8 | 251795 |
| 440-107892-2 | W043 | Dissolved | Water | 200.8 | 251795 |
| 440-107892-2 MS | W043 | Dissolved | Water | 200.8 | 251795 |
| 440-107892-2 MSD | W043 | Dissolved | Water | 200.8 | 251795 |
| 440-107892-3 | W044 | Dissolved | Water | 200.8 | 251795 |
| 440-107892-4 | W045 | Dissolved | Water | 200.8 | 251795 |
| LCS 440-250948/2-D | Lab Control Sample | Dissolved | Water | 200.8 | 251795 |
| MB 440-250948/1-D | Method Blank | Dissolved | Water | 200.8 | 251795 |

### Analysis Batch: 251945

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Dissolved | Water | 6010B | 251796 |
| 440-107892-2 | W043 | Dissolved | Water | 6010B | 251796 |
| 440-107892-3 | W044 | Dissolved | Water | 6010B | 251796 |
| 440-107892-3 MS | W044 | Dissolved | Water | 6010B | 251796 |
| 440-107892-3 MSD | W044 | Dissolved | Water | 6010B | 251796 |
| 440-107892-4 | W045 | Dissolved | Water | 6010B | 251796 |
| LCS 440-250948/2-E | Lab Control Sample | Dissolved | Water | 6010B | 251796 |
| MB 440-250948/1-E | Method Blank | Dissolved | Water | 6010B | 251796 |

### Analysis Batch: 251957

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-2 | W043 | Dissolved | Water | 6010B | 251796 |
| 440-107892-3 | W044 | Dissolved | Water | 6010B | 251796 |

# QC Association Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## General Chemistry

### Analysis Batch: 250933

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Total/NA | Water | SM 2320B | |
| 440-107892-2 | W043 | Total/NA | Water | SM 2320B | |
| 440-107892-3 | W044 | Total/NA | Water | SM 2320B | |
| 440-107892-4 | W045 | Total/NA | Water | SM 2320B | |
| 440-107892-4 DU | W045 | Total/NA | Water | SM 2320B | |
| LCS 440-250933/2 | Lab Control Sample | Total/NA | Water | SM 2320B | |
| MB 440-250933/3 | Method Blank | Total/NA | Water | SM 2320B | |

### Analysis Batch: 251526

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 440-107892-1 | W042 | Total/NA | Water | SM 2540C | |
| 440-107892-1 DU | W042 | Total/NA | Water | SM 2540C | |
| 440-107892-2 | W043 | Total/NA | Water | SM 2540C | |
| 440-107892-3 | W044 | Total/NA | Water | SM 2540C | |
| 440-107892-4 | W045 | Total/NA | Water | SM 2540C | |
| LCS 440-251526/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| MB 440-251526/1 | Method Blank | Total/NA | Water | SM 2540C | |

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### HPLC/IC

| Qualifier | Qualifier Description |
|---|---|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. |
| B | Compound was found in the blank and sample. |
| 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. |

## 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: AMEC Foster Wheeler E & I, Inc
Project/Site: Chevron Cawelo

TestAmerica Job ID: 440-107892-1
SDG: FR1416063A

## 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 | 01-31-16 * |
| California | State Program | 9 | 2706 | 06-30-16 |
| Guam | State Program | 9 | Cert. No. 12.002r | 01-23-16 |
| Hawaii | State Program | 9 | N/A | 01-29-16 |
| 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 | 01-29-16 |
| USDA | Federal | | P330-09-00080 | 06-06-15 |

* Certification renewal pending - certification considered valid.

**CHAIN-OF-CUSTODY RECORD**

FRE 16812

PROJECT NAME: Sump Sampling @ KROF Foam Plant

DATE: 4/22/15

PAGE OF

PROJECT NUMBER: FK141606 3A

RESULTS TO: Gary Kramer

TURNAROUND TIME: 5-days

SAMPLE SHIPMENT METHOD: FedEx

LABORATORY NAME: Test America

LABORATORY ADDRESS: 17461 Derian Ave Suite 100 Irvine CA 92614

LABORATORY CONTACT: Patty Mata

LABORATORY PHONE NUMBER: (949) 261-1022

CLIENT INFORMATION:

REPORTING REQUIREMENTS:

GEOTRACKER REQUIRED EDF YES NO

SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

ANALYSES

| DATE | TIME | SAMPLE NUMBER | 8260B Acetone + BTEX | 8270C PAH | 8015B | 300 Cl, SO4, Br F | 300 NO3 | 2540C TDS | 2320B Alk | 200.7, 200.8 | 6010B, 7470A | 6010B STLC metals | | | | CONTAINER TYPE AND SIZE | Soil (S), Water (W), Vapor (V), or Other (O) | Filtered | Preservative Type | Cooled | MS/MSD | No. of Containers | ADDITIONAL COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/22/15 | 4:30 | W042 | 3 | 2 | 1 | | | 1 | | 1 | | 1 | | | | | W | N | | Y | | 9 | all 200.7 & |
| 4/22/15 | 4:30 | W043 | 3 | 2 | 1 | | | 1 | | 1 | | 1 | | | | | W | N | | Y | | 9 | 200.8 Samples |
| 4/22/15 | 4:30 | W044 | 3 | 2 | 1 | | | 1 | | 1 | | 1 | | | | | W | N | | Y | | 9 | Need to |
| 4/22/15 | 4:30 | W045 | 3 | 2 | 1 | | | 1 | | 1 | | 1 | | | | | W | N | | Y | | 9 | be filtered |

440-107892 Chain of Custody

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | DATE | TIME |
|---|---|---|---|---|---|
| SIGNATURE: [signature] | 4/22 | | SIGNATURE: | | |
| PRINTED NAME: Johnathan Eberhach | | | PRINTED NAME: | | |
| COMPANY: Amec Fw | 2015 | | COMPANY: | | |
| SIGNATURE: [signature] | | | SIGNATURE: [signature] | 4/23/15 | 9:35 |
| PRINTED NAME: Kate Thomas | | | PRINTED NAME: VU BANH | | |
| COMPANY: | | | COMPANY: TAI | | |
| SIGNATURE: | | | SIGNATURE: | | |
| PRINTED NAME: | | | PRINTED NAME: | | |
| COMPANY: | | | COMPANY: | | |

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS: Send results to gary.kramer@amec.com
NO3 has 48 hr hold, analyze as soon as possible
200.7 and 200.8 Samples need to be filtered

1281 East Alluvial Ave., Suite 101
Fresno, California 93720-2659
Tel 559.264.2535 Fax 559.264.7431

amec

4.4/3.7 3.5/2.8 3.9/3.2 IR-72 Fed: 8061 ~~4343~~ 6626 2570

**TestAmerica Irvine**
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: Mata, Patty | Carrier Tracking No(s): | COC No: 440-81827.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: patty.mata@testamericainc.com | | Page: Page 1 of 1 |
| Company: TestAmerica Laboratories, Inc. | | | | Job #: 440-107892-1 |
| Address: 13715 Rider Trail North, , | Due Date Requested: 4/29/2015 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: Chevron Kern River | Project #: 44011546 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

**Other:**

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 9310/Filtration_Rad Standard Target List | 9315_Ra226/Filtration_Rad Standard Target List | 9320_Ra228/Filtration_Rad Standard Target List | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| W042 (440-107892-1) | 4/22/15 | 16:30 Pacific | | Water | | | X | X | X | 1 | Chevron 5 day Rush |
| W043 (440-107892-2) | 4/22/15 | 16:30 Pacific | | Water | | | X | X | X | 1 | Chevron 5 day Rush |
| W044 (440-107892-3) | 4/22/15 | 16:30 Pacific | | Water | | | X | X | X | 1 | Chevron 5 day Rush |
| W045 (440-107892-4) | 4/22/15 | 16:30 Pacific | | Water | | | X | X | X | 1 | Chevron 5 day Rush |

***Possible Hazard Identification***
*Unconfirmed*

***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)***
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

# Login Sample Receipt Checklist

Client: AMEC Foster Wheeler E & I, Inc

Job Number: 440-107892-1
SDG Number: FR1416063A

**Login Number: 107892**
**List Number: 1**
**Creator: Soderblom, Tim**

**List Source: TestAmerica Irvine**

| 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. | False | Refer to Job Narrative for details. |
| 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

## Weck Laboratories, Inc. Analytical Report dated November 11, 2015

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

# CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| **Client:** | Law Offices of McMurtrey, Hartsock & Worth<br>2001 22nd Street, Suite 100<br>Bakersfield, CA 93301 CA, 93301 | **Report Date:** | 11/11/15 15:48 |
| | | **Received Date:** | 09/25/15 11:34 |
| | | **Turn Around:** | Normal |
| **Attention:** | Robert Hartsock | **Client Project:** | Cawelo Water District |
| **Phone:** | (661) 322-4417 | | |
| **Fax:** | - | | |
| **Work Order(s):** | 5I25014 | | |

**NELAC #4047-002 ORELAP ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143**

*The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.*

Dear Robert Hartsock :

Enclosed are the results of analyses for samples received 09/25/15 11:34 with the Chain of Custody document. The samples were received not in good condition, at 18.3 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

**Case Narrative:**

The samples consisted of whole almond fruits collected in plastic bags. One sample bag had a small amount of melted ice water during transportation; however, this did not affect the sample integrity. Composite samples were prepared by collecting approximately fifty grams of fruit (only considering the edible portion) from each bag to provide a representative sample composition for each sample. The fruits were prepared by first manually separating the flesh from the pit of each fruit, and then cracking the pit open to release the almond from the pit. Care was taken to prevent cross-contamination between the exterior of the fruit and the edible portions of the almond. The collected almonds were ground in a steel-blade homogenizer for thirty seconds, transferred to a glass jar with a PTFE-lined lid, and stored at 4°C until analysis.

Being composed of organic matter, these samples inherently contain a large variety of volatile organic material, including but not limited to aldehydes, ketones, alcohols, and aromatics. Due to the extreme interferences observed in preliminary analyses of these samples, several dilutions were performed in order to satisfy the quality control measures required by some analytical methods. The volatile nature of the interferants means that the methods most affected by these matrix effects are those measuring volatile organics—EPA 8260 and EPA 8015. For this reason, two sets of samples were analyzed—one with a large dilution to satisfy the quality control requirements of each analytical method, and one with no dilution factor to determine the presence or absence of the analytes of interest. The diluted samples can be identified by the lab work order numbers 5I25014-01, -02, -03. The undiluted samples can be identified by work order numbers 5I25014-01RE1, -02RE1, -03RE1.

For EPA 8670 PAH, the method blank, matrix spike, matrix spike duplicate and samples 5I25014-01 and 5I25014-02 were spiked with a higher amount of internal standard. To achieve more accurate results, these samples were reanalyzed and were compared against a calibration constructed with internal standards at that same level as the samples.

For both EPA 8015 GRO and EPA 8015 DRO, the results are determined by integrating an entire chromatographic range and summing all of the found compounds in that range. This approach will include all hydrocarbons that have a similar molecular weight (C6 to C10 for GRO, and C10-C23 for DRO), so it is susceptible to matrix interferences for samples high in organic matter. For all detections in these methods, the sample chromatogram is compared to a chromatogram of an authentic standard to confirm that the hydrocarbon pattern corresponds to the particular fuel. In the case of sample 5I25014, the compounds identified in the quantitation range for EPA 8015 DRO did not match the hydrocarbon pattern from the authentic standard, indicating that diesel fuel is not present in each sample. In the report, these samples are also tagged with the qualifier HC-02.

**Reviewed by:**

Agustin Pierri For Alfredo E. Pierri
Project Manager



Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634

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Law Offices of McMurtrey, Hartsock & Worth
2001 22nd Street, Suite 100
Bakersfield, CA 93301 CA, 93301

**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Lab ID | Matrix | Date Sampled |
|---|---|---|---|---|
| A1D Composite | Dennis Pickin | 5I25014-01 | Other (W) | 09/24/15 09:25 |
| Comments: Composite of A1D1, A1D2, A1D3, A1D4 and A1D5 | | | | |
| Comments: Composite of A1D1, A1D2, A1D3, A1D4 and A1D5 | | | | |
| A2D Composite | Dennis Pickin | 5I25014-02 | Other (W) | 09/24/15 08:30 |
| Comments: Composite of A2D1, A2D2, A2D3, A2D4 and A2D5 | | | | |
| Comments: Composite of A2D1, A2D2, A2D3, A2D4 and A2D5 | | | | |
| A3R1+2 Composite | Dennis Pickin | 5I25014-03 | Other (W) | 09/24/15 13:30 |
| Comments: Composite of A3R1 and A3R2 | | | | |
| Comments: Composite of A3R1 and A3R2 | | | | |

## ANALYSES

Anions in solids by EPA 9056/300.0

Hydrocarbons by EPA 8015B

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Semivolatile Organics - Low Level by GC/MS SIM Mode

Volatile Organic Compounds by EPA Method 8260B



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2001 22nd Street, Suite 100
Bakersfield, CA 93301 CA, 93301

**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

**5I25014-01 A1D Composite**

**Sampled:** 09/24/15 09:25 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A1D1, A1D2, A1D3, A1D4 and A1D5**

## Anions in solids by EPA 9056/300.0

Method: EPA 9056A Batch: W5J0909 Prepared: 10/17/15 11:00 Analyst: atl

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromide, Water Leachable | ND | 37 | mg/kg | 2.5 | 10/17/15 13:58 | |
| Chloride, Water Leachable | ND | 37 | mg/kg | 2.5 | 10/17/15 13:58 | |
| **Fluoride, Water Leachable** | **9.4** | 7.4 | mg/kg | 2.5 | 10/17/15 13:58 | |
| Nitrate as NO3, Water Leachable | ND | 37 | mg/kg | 2.5 | 10/17/15 13:58 | |
| **Sulfate as S, Water Leachable** | **440** | 37 | mg/kg | 2.5 | 10/17/15 13:58 | |

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5J0866 Prepared: 10/16/15 09:59 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 250 | mg/kg | 1 | 10/16/15 15:26 | |
| *Surr: 4-Bromofluorobenzene* | *76 %* | Conc:*95.0* | *54-139* | % | | | |

Method: EPA 8015B Batch: W5J1579 Prepared: 10/29/15 11:24 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Diesel Range Organics** | **2100** | | 93 | mg/kg | 1 | 10/30/15 07:55 | HC-02 |
| *Surr: n-Tetracosane* | *99 %* | Conc:*459* | *53-134* | % | | | |

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6010B Batch: W5J1021 Prepared: 10/21/15 09:29 Analyst: jck

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Boron, Total** | **15** | 4.0 | mg/kg | 1 | 10/27/15 12:42 | |
| **Calcium, Total** | **2200** | 200 | mg/kg | 1 | 10/27/15 12:42 | |
| **Iron, Total** | **27** | 20 | mg/kg | 1 | 10/27/15 12:42 | |
| Lithium, Total | ND | 20 | mg/kg | 1 | 10/27/15 12:42 | |
| **Magnesium, Total** | **2000** | 200 | mg/kg | 1 | 10/27/15 12:42 | |
| **Manganese, Total** | **16** | 4.0 | mg/kg | 1 | 10/27/15 12:42 | |
| **Potassium, Total** | **4800** | 200 | mg/kg | 1 | 10/27/15 12:42 | |
| Sodium, Total | ND | 400 | mg/kg | 1 | 10/27/15 12:42 | |

Method: EPA 6020A Batch: W5J1024 Prepared: 10/21/15 09:32 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Antimony, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 13:25 | |
| Arsenic, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 13:25 | |
| **Barium, Total** | **7.5** | 2.0 | mg/kg | 1 | 10/27/15 13:25 | |
| Beryllium, Total | ND | 1.2 | mg/kg | 1 | 10/27/15 13:25 | |
| Cadmium, Total | ND | 0.80 | mg/kg | 1 | 10/27/15 13:25 | |
| Chromium, Total | ND | 4.0 | mg/kg | 1 | 10/27/15 13:25 | |
| Cobalt, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 13:25 | |
| **Copper, Total** | **38** | 2.0 | mg/kg | 1 | 10/27/15 13:25 | |



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2001 22nd Street, Suite 100
Bakersfield, CA 93301 CA, 93301

**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

**5I25014-01 A1D Composite**

**Sampled:** 09/24/15 09:25 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A1D1, A1D2, A1D3, A1D4 and A1D5**

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6020A Batch: W5J1024 Prepared: 10/21/15 09:32 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Molybdenum, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 13:25 | |
| Selenium, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 13:25 | |
| Silver, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 13:25 | |
| **Strontium, Total** | **37** | 2.0 | mg/kg | 1 | 10/27/15 13:25 | |
| Thallium, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 13:25 | |
| Uranium, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 13:25 | |
| **Zinc, Total** | **110** | 20 | mg/kg | 1 | 10/27/15 13:25 | |

Method: EPA 6020B Batch: W5J1024 Prepared: 10/21/15 09:32 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Lead, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 13:25 | |
| **Nickel, Total** | **5.4** | 4.0 | mg/kg | 1 | 10/27/15 13:25 | |
| Vanadium, Total | ND | 4.0 | mg/kg | 1 | 10/27/15 13:25 | |

## Semivolatile Organics - Low Level by GC/MS SIM Mode

Method: EPA 8270C SIM Batch: W5J0842 Prepared: 10/15/15 16:47 Analyst: mxw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| 2-Methylnaphthalene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| Acenaphthene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| Acenaphthylene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| Anthracene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| Benzo (a) anthracene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| Benzo (a) pyrene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| Benzo (b) fluoranthene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| Benzo (g,h,i) perylene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| Benzo (k) fluoranthene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| Chrysene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| Dibenzo (a,h) anthracene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| Fluoranthene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| Fluorene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| Indeno (1,2,3-cd) pyrene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| Naphthalene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| Phenanthrene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| Pyrene | ND | 66 | ug/kg | 1 | 11/06/15 01:14 | C-3640, M-02 |
| *Surr: 2-Fluorobiphenyl* | *80 %* | Conc:*1760* *0.1-109* | % | | | *C-3640, M-02* |
| *Surr: Nitrobenzene-d5* | *71 %* | Conc:*1560* *0.1-107* | % | | | *C-3640, M-02* |
| *Surr: Terphenyl-d14* | *62 %* | Conc:*1350* *28-128* | % | | | *C-3640, M-02* |



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2001 22nd Street, Suite 100
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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

**5I25014-01 A1D Composite**

**Sampled:** 09/24/15 09:25 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A1D1, A1D2, A1D3, A1D4 and A1D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5J1037 Prepared: 10/20/15 10:03 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 1,1,1-Trichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 1,1,2-Trichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 1,1-Dichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 1,1-Dichloroethene | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 1,1-Dichloropropene | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 1,2,3-Trichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 1,2-Dichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 1,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 1,3-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 2,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 2-Butanone | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 2-Chlorotoluene | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 2-Hexanone | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 4-Chlorotoluene | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| 4-Methyl-2-pentanone | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Acetone | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Acrolein | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Acrylonitrile | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Benzene | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Bromobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Bromochloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Bromodichloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Bromoform | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Bromomethane | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Carbon tetrachloride | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Chlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Chloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Chloroform | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Chloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| cis-1,2-Dichloroethene | ND | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

**5I25014-01 A1D Composite**

**Sampled:** 09/24/15 09:25 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A1D1, A1D2, A1D3, A1D4 and A1D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5J1037 Prepared: 10/20/15 10:03 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Dibromochloromethane | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Dibromomethane | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Ethylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Hexachlorobutadiene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Isopropylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| m,p-Xylene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| m-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Methylene chloride | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Naphthalene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| n-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| n-Propylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| o-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| o-Xylene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| p-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| p-Isopropyltoluene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| sec-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Styrene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| tert-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Tetrachloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Toluene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| trans-1,2-Dichloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| trans-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Trichloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Trichlorofluoromethane | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| Vinyl chloride | ND | | 1200 | ug/kg | 50 | 10/20/15 16:49 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *100 %* | Conc:*243* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *98 %* | Conc:*239* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *98 %* | Conc:*239* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *99 %* | Conc:*241* | *82-120* | % | | | |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

**5I25014-01RE1 A1D Composite**

**Sampled:** 09/24/15 09:25 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A1D1, A1D2, A1D3, A1D4 and A1D5**

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5K0050 Prepared: 10/28/15 09:22 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 0.50 | mg/kg | 1 | 10/28/15 17:45 | |
| *Surr: 4-Bromofluorobenzene* | *0 %* | Conc:*0.00* | *54-139* | % | | | *S-04* |

Method: EPA 8015B Batch: W5K0345 Prepared: 10/30/15 17:00 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Diesel Range Organics** | **730** | | 9.5 | mg/kg | 1 | 10/31/15 02:33 | HC-02 |
| *Surr: n-Tetracosane* | *69 %* | Conc:*32.7* | *53-134* | % | | | |

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| **Acetone** | **100** | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Acrolein | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Benzene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

**5I25014-01RE1 A1D Composite**

**Sampled:** 09/24/15 09:25 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A1D1, A1D2, A1D3, A1D4 and A1D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromobenzene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Bromoform | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Bromomethane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Chloroethane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Chloroform | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Chloromethane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| **Methylene chloride** | **38** | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Naphthalene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| o-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Styrene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Toluene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | 1 | 11/06/15 12:37 | M-05 |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

**5I25014-01RE1 A1D Composite**

**Sampled:** 09/24/15 09:25 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A1D1, A1D2, A1D3, A1D4 and A1D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| *Surr: 1,2-Dichloroethane-d4* | *131 %* | Conc:*313* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *80 %* | Conc:*191* | *85-116* | % | | | *S-04* |
| *Surr: Dibromofluoromethane* | *112 %* | Conc:*268* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *90 %* | Conc:*214* | *82-120* | % | | | |



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**Date Received:** 09/25/15 11:34
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**5I25014-02 A2D Composite**

**Sampled:** 09/24/15 08:30 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A2D1, A2D2, A2D3, A2D4 and A2D5**

## Anions in solids by EPA 9056/300.0

Method: EPA 9056A Batch: W5J0909 Prepared: 10/17/15 11:00 Analyst: atl

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromide, Water Leachable | ND | 37 | mg/kg | 2.5 | 10/17/15 14:58 | |
| **Chloride, Water Leachable** | **81** | 37 | mg/kg | 2.5 | 10/17/15 14:58 | |
| **Fluoride, Water Leachable** | **16** | 7.5 | mg/kg | 2.5 | 10/17/15 14:58 | |
| Nitrate as NO3, Water Leachable | ND | 37 | mg/kg | 2.5 | 10/17/15 14:58 | |
| **Sulfate as S, Water Leachable** | **570** | 37 | mg/kg | 2.5 | 10/17/15 14:58 | |

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5J0866 Prepared: 10/16/15 09:59 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 250 | mg/kg | 1 | 10/16/15 16:25 | |
| *Surr: 4-Bromofluorobenzene* | *70 %* | Conc:*87.5* | *54-139* | % | | | |

Method: EPA 8015B Batch: W5J1579 Prepared: 10/29/15 11:24 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Diesel Range Organics** | **1300** | | 100 | mg/kg | 1 | 10/30/15 09:01 | HC-02 |
| *Surr: n-Tetracosane* | *96 %* | Conc:*478* | *53-134* | % | | | |

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6010B Batch: W5J1021 Prepared: 10/21/15 09:29 Analyst: jck

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Boron, Total** | **35** | 3.9 | mg/kg | 1 | 10/27/15 12:47 | |
| **Calcium, Total** | **2800** | 200 | mg/kg | 1 | 10/27/15 12:47 | |
| **Iron, Total** | **35** | 20 | mg/kg | 1 | 10/27/15 12:47 | |
| Lithium, Total | ND | 20 | mg/kg | 1 | 10/27/15 12:47 | |
| **Magnesium, Total** | **2400** | 200 | mg/kg | 1 | 10/27/15 12:47 | |
| **Manganese, Total** | **17** | 3.9 | mg/kg | 1 | 10/27/15 12:47 | |
| **Potassium, Total** | **7100** | 200 | mg/kg | 1 | 10/27/15 12:47 | |
| Sodium, Total | ND | 390 | mg/kg | 1 | 10/27/15 12:47 | |

Method: EPA 6020A Batch: W5J1024 Prepared: 10/21/15 09:32 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Antimony, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:09 | |
| Arsenic, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:09 | |
| **Barium, Total** | **11** | 2.0 | mg/kg | 1 | 10/27/15 14:09 | |
| Beryllium, Total | ND | 1.2 | mg/kg | 1 | 10/27/15 14:09 | |
| Cadmium, Total | ND | 0.78 | mg/kg | 1 | 10/27/15 14:09 | |
| Chromium, Total | ND | 3.9 | mg/kg | 1 | 10/27/15 14:09 | |
| Cobalt, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:09 | |
| **Copper, Total** | **37** | 2.0 | mg/kg | 1 | 10/27/15 14:09 | |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

**5I25014-02 A2D Composite**

**Sampled:** 09/24/15 08:30 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A2D1, A2D2, A2D3, A2D4 and A2D5**

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6020A Batch: W5J1024 Prepared: 10/21/15 09:32 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Molybdenum, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:09 | |
| Selenium, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:09 | |
| Silver, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:09 | |
| **Strontium, Total** | **42** | 2.0 | mg/kg | 1 | 10/27/15 14:09 | |
| Thallium, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:09 | |
| Uranium, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:09 | |
| **Zinc, Total** | **120** | 20 | mg/kg | 1 | 10/27/15 14:09 | |

Method: EPA 6020B Batch: W5J1024 Prepared: 10/21/15 09:32 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Lead, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:09 | |
| Nickel, Total | ND | 3.9 | mg/kg | 1 | 10/27/15 14:09 | |
| Vanadium, Total | ND | 3.9 | mg/kg | 1 | 10/27/15 14:09 | |

## Semivolatile Organics - Low Level by GC/MS SIM Mode

Method: EPA 8270C SIM Batch: W5J0842 Prepared: 10/15/15 16:47 Analyst: mxw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| 2-Methylnaphthalene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | M-02, C-3640 |
| Acenaphthene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| Acenaphthylene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| Anthracene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| Benzo (a) anthracene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| Benzo (a) pyrene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| Benzo (b) fluoranthene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| Benzo (g,h,i) perylene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| Benzo (k) fluoranthene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| Chrysene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| Dibenzo (a,h) anthracene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| Fluoranthene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| Fluorene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| Indeno (1,2,3-cd) pyrene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| Naphthalene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| Phenanthrene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| Pyrene | ND | 86 | ug/kg | 1 | 11/06/15 01:49 | C-3640, M-02 |
| *Surr: 2-Fluorobiphenyl* | *89 %* | Conc:*2040* *0.1-109* | % | | | *C-3640, M-02* |
| *Surr: Nitrobenzene-d5* | *64 %* | Conc:*1470* *0.1-107* | % | | | *C-3640, M-02* |
| *Surr: Terphenyl-d14* | *66 %* | Conc:*1510* *28-128* | % | | | *C-3640, M-02* |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

**5I25014-02 A2D Composite**

**Sampled:** 09/24/15 08:30 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A2D1, A2D2, A2D3, A2D4 and A2D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5J1037 Prepared: 10/20/15 10:03 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 1,1,1-Trichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 1,1,2-Trichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 1,1-Dichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 1,1-Dichloroethene | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 1,1-Dichloropropene | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 1,2,3-Trichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 1,2-Dichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 1,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 1,3-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 2,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 2-Butanone | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 2-Chlorotoluene | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 2-Hexanone | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 4-Chlorotoluene | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| 4-Methyl-2-pentanone | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Acetone | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Acrolein | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Acrylonitrile | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Benzene | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Bromobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Bromochloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Bromodichloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Bromoform | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Bromomethane | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Carbon tetrachloride | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Chlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Chloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Chloroform | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Chloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| cis-1,2-Dichloroethene | ND | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |



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**Date Reported:** 11/11/15 15:48

**5I25014-02 A2D Composite**

**Sampled:** 09/24/15 08:30 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A2D1, A2D2, A2D3, A2D4 and A2D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5J1037 Prepared: 10/20/15 10:03 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Dibromochloromethane | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Dibromomethane | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Ethylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Hexachlorobutadiene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Isopropylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| m,p-Xylene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| m-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Methylene chloride | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Naphthalene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| n-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| n-Propylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| o-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| o-Xylene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| p-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| p-Isopropyltoluene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| sec-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Styrene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| tert-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Tetrachloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Toluene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| trans-1,2-Dichloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| trans-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Trichloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Trichlorofluoromethane | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| Vinyl chloride | ND | | 1200 | ug/kg | 50 | 10/20/15 17:53 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *100 %* | Conc:*246* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *98 %* | Conc:*240* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *97 %* | Conc:*239* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *100 %* | Conc:*246* | *82-120* | % | | | |

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**5I25014-02RE1 A2D Composite**

**Sampled:** 09/24/15 08:30 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A2D1, A2D2, A2D3, A2D4 and A2D5**

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5K0050 Prepared: 10/28/15 09:22 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 0.50 | mg/kg | 1 | 10/28/15 18:14 | |
| *Surr: 4-Bromofluorobenzene* | *6 %* | Conc:*0.0150* | *54-139* | % | | | *S-04* |

Method: EPA 8015B Batch: W5K0345 Prepared: 10/30/15 17:00 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Diesel Range Organics** | **190** | | 10 | mg/kg | 1 | 10/31/15 03:07 | HC-02 |
| *Surr: n-Tetracosane* | *67 %* | Conc:*33.8* | *53-134* | % | | | |

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| **Acetone** | **120** | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Acrolein | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Benzene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

**5I25014-02RE1 A2D Composite**

**Sampled:** 09/24/15 08:30 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A2D1, A2D2, A2D3, A2D4 and A2D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromobenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Bromoform | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Bromomethane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Chloroethane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Chloroform | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Chloromethane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Methylene chloride | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Naphthalene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| o-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Styrene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Toluene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | 1 | 11/06/15 13:09 | M-05 |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

**5I25014-02RE1 A2D Composite**

**Sampled:** 09/24/15 08:30 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A2D1, A2D2, A2D3, A2D4 and A2D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| *Surr: 1,2-Dichloroethane-d4* | *167 %* | Conc:*407* | *78-140* | % | | | *S-04* |
| *Surr: 4-Bromofluorobenzene* | *61 %* | Conc:*149* | *85-116* | % | | | *S-04* |
| *Surr: Dibromofluoromethane* | *131 %* | Conc:*319* | *84-120* | % | | | *S-04* |
| *Surr: Toluene-d8* | *72 %* | Conc:*176* | *82-120* | % | | | *S-04* |



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**Date Received:** 09/25/15 11:34
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**5I25014-03 A3R1+2 Composite**

**Sampled:** 09/24/15 13:30 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A3R1 and A3R2**

## Anions in solids by EPA 9056/300.0

Method: EPA 9056A Batch: W5J0909 Prepared: 10/17/15 11:00 Analyst: atl

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromide, Water Leachable | ND | 37 | mg/kg | 2.5 | 10/17/15 15:25 | |
| **Chloride, Water Leachable** | **57** | 37 | mg/kg | 2.5 | 10/17/15 15:25 | |
| **Fluoride, Water Leachable** | **14** | 7.5 | mg/kg | 2.5 | 10/17/15 15:25 | |
| Nitrate as NO3, Water Leachable | ND | 37 | mg/kg | 2.5 | 10/17/15 15:25 | |
| **Sulfate as S, Water Leachable** | **720** | 37 | mg/kg | 2.5 | 10/17/15 15:25 | |

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5J0866 Prepared: 10/16/15 09:59 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 250 | mg/kg | 1 | 10/16/15 17:24 | |
| *Surr: 4-Bromofluorobenzene* | *72 %* | Conc:*90.0* | *54-139* | % | | | |

Method: EPA 8015B Batch: W5J1579 Prepared: 10/29/15 11:24 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Diesel Range Organics** | **1500** | | 100 | mg/kg | 1 | 10/30/15 10:09 | HC-02 |
| *Surr: n-Tetracosane* | *97 %* | Conc:*484* | *53-134* | % | | | |

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6010B Batch: W5J1021 Prepared: 10/21/15 09:29 Analyst: jck

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Boron, Total** | **18** | 4.0 | mg/kg | 1 | 10/27/15 12:53 | |
| **Calcium, Total** | **2900** | 200 | mg/kg | 1 | 10/27/15 12:53 | |
| **Iron, Total** | **34** | 20 | mg/kg | 1 | 10/27/15 12:53 | |
| Lithium, Total | ND | 20 | mg/kg | 1 | 10/27/15 12:53 | |
| **Magnesium, Total** | **2600** | 200 | mg/kg | 1 | 10/27/15 12:53 | |
| **Manganese, Total** | **20** | 4.0 | mg/kg | 1 | 10/27/15 12:53 | |
| **Potassium, Total** | **5900** | 200 | mg/kg | 1 | 10/27/15 12:53 | |
| Sodium, Total | ND | 400 | mg/kg | 1 | 10/27/15 12:53 | |

Method: EPA 6020A Batch: W5J1024 Prepared: 10/21/15 09:32 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Antimony, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:23 | |
| Arsenic, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:23 | |
| **Barium, Total** | **12** | 2.0 | mg/kg | 1 | 10/27/15 14:23 | |
| Beryllium, Total | ND | 1.2 | mg/kg | 1 | 10/27/15 14:23 | |
| Cadmium, Total | ND | 0.80 | mg/kg | 1 | 10/27/15 14:23 | |
| Chromium, Total | ND | 4.0 | mg/kg | 1 | 10/27/15 14:23 | |
| Cobalt, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:23 | |
| **Copper, Total** | **29** | 2.0 | mg/kg | 1 | 10/27/15 14:23 | |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

**5I25014-03 A3R1+2 Composite**

**Sampled:** 09/24/15 13:30 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A3R1 and A3R2**

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6020A Batch: W5J1024 Prepared: 10/21/15 09:32 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Molybdenum, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:23 | |
| Selenium, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:23 | |
| Silver, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:23 | |
| **Strontium, Total** | **40** | 2.0 | mg/kg | 1 | 10/27/15 14:23 | |
| Thallium, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:23 | |
| Uranium, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:23 | |
| **Zinc, Total** | **93** | 20 | mg/kg | 1 | 10/27/15 14:23 | |

Method: EPA 6020B Batch: W5J1024 Prepared: 10/21/15 09:32 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Lead, Total | ND | 2.0 | mg/kg | 1 | 10/27/15 14:23 | |
| Nickel, Total | ND | 4.0 | mg/kg | 1 | 10/27/15 14:23 | |
| Vanadium, Total | ND | 4.0 | mg/kg | 1 | 10/27/15 14:23 | |

## Semivolatile Organics - Low Level by GC/MS SIM Mode

Method: EPA 8270C SIM Batch: W5J0842 Prepared: 10/15/15 16:47 Analyst: mxw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | C-3640, M-02 |
| 2-Methylnaphthalene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | C-3640, M-02 |
| Acenaphthene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | C-3640, M-02 |
| Acenaphthylene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | C-3640, M-02 |
| Anthracene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | C-3640, M-02 |
| Benzo (a) anthracene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | C-3640, M-02 |
| Benzo (a) pyrene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | C-3640, M-02 |
| Benzo (b) fluoranthene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | M-02, C-3640 |
| Benzo (g,h,i) perylene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | C-3640, M-02 |
| Benzo (k) fluoranthene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | C-3640, M-02 |
| Chrysene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | C-3640, M-02 |
| Dibenzo (a,h) anthracene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | C-3640, M-02 |
| Fluoranthene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | C-3640, M-02 |
| Fluorene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | C-3640, M-02 |
| Indeno (1,2,3-cd) pyrene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | M-02, C-3640 |
| Naphthalene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | C-3640, M-02 |
| Phenanthrene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | C-3640, M-02 |
| Pyrene | ND | 87 | ug/kg | 1 | 10/30/15 14:49 | C-3640, M-02 |
| *Surr: 2-Fluorobiphenyl* | *109 %* | Conc:*2530* *0.1-109* | % | | | *C-3640, M-02* |
| *Surr: Nitrobenzene-d5* | *137 %* | Conc:*3180* *0.1-107* | % | | | *C-3640, M-02, S-11* |
| *Surr: Terphenyl-d14* | *82 %* | Conc:*1900* *28-128* | % | | | *C-3640, M-02* |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

**5I25014-03 A3R1+2 Composite**

**Sampled:** 09/24/15 13:30 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A3R1 and A3R2**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5J1037 Prepared: 10/20/15 10:03 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 1,1,1-Trichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 1,1,2-Trichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 1,1-Dichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 1,1-Dichloroethene | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 1,1-Dichloropropene | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 1,2,3-Trichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 1,2-Dichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 1,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 1,3-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 2,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 2-Butanone | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 2-Chlorotoluene | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 2-Hexanone | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 4-Chlorotoluene | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| 4-Methyl-2-pentanone | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Acetone | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Acrolein | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Acrylonitrile | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Benzene | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Bromobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Bromochloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Bromodichloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Bromoform | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Bromomethane | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Carbon tetrachloride | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Chlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Chloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Chloroform | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Chloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| cis-1,2-Dichloroethene | ND | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

**5I25014-03 A3R1+2 Composite**

**Sampled:** 09/24/15 13:30 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A3R1 and A3R2**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5J1037 Prepared: 10/20/15 10:03 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Dibromochloromethane | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Dibromomethane | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Ethylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Hexachlorobutadiene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Isopropylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| m,p-Xylene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| m-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Methylene chloride | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Naphthalene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| n-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| n-Propylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| o-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| o-Xylene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| p-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| p-Isopropyltoluene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| sec-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Styrene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| tert-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Tetrachloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Toluene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| trans-1,2-Dichloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| trans-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Trichloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Trichlorofluoromethane | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| Vinyl chloride | ND | | 1200 | ug/kg | 50 | 10/20/15 18:56 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *102 %* | Conc:*253* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *98 %* | Conc:*244* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *97 %* | Conc:*242* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *101 %* | Conc:*250* | *82-120* | % | | | |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

**5I25014-03RE1 A3R1+2 Composite**

**Sampled:** 09/24/15 13:30 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A3R1 and A3R2**

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5K0050 Prepared: 10/28/15 09:22 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 0.50 | mg/kg | 1 | 10/28/15 18:44 | |
| *Surr: 4-Bromofluorobenzene* | *4 %* | Conc:*0.0100* | *54-139* | % | | | *S-04* |

Method: EPA 8015B Batch: W5K0345 Prepared: 10/30/15 17:00 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Diesel Range Organics** | **270** | | 9.6 | mg/kg | 1 | 10/31/15 03:40 | HC-02 |
| *Surr: n-Tetracosane* | *62 %* | Conc:*29.9* | *53-134* | % | | | |

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| **Acetone** | **99** | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Acrolein | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Benzene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

**5I25014-03RE1 A3R1+2 Composite**

**Sampled:** 09/24/15 13:30 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A3R1 and A3R2**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromobenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Bromoform | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Bromomethane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Chloroethane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Chloroform | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Chloromethane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Methylene chloride | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Naphthalene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| o-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Styrene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Toluene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | 1 | 11/06/15 13:41 | M-05 |



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**5I25014-03RE1 A3R1+2 Composite**

**Sampled:** 09/24/15 13:30 **Sampled By:** Dennis Pickin **Matrix:** Other (W)

**Sample Note: Composite of A3R1 and A3R2**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| *Surr: 1,2-Dichloroethane-d4* | *177 %* | Conc:*427* | *78-140* | % | | | *S-04* |
| *Surr: 4-Bromofluorobenzene* | *61 %* | Conc:*148* | *85-116* | % | | | *S-04* |
| *Surr: Dibromofluoromethane* | *133 %* | Conc:*322* | *84-120* | % | | | *S-04* |
| *Surr: Toluene-d8* | *71 %* | Conc:*170* | *82-120* | % | | | *S-04* |



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# QUALITY CONTROL SECTION



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**Date Received:** 09/25/15 11:34
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## Anions in solids by EPA 9056/300.0 - Quality Control

**Batch W5J0909 - EPA 9056A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J0909-BLK1)** | | | | Analyzed: 10/17/15 11:49 | | | | | | |
| Bromide, Water Leachable | ND | 5.0 | mg/kg | | | | | | | |
| Chloride, Water Leachable | ND | 5.0 | mg/kg | | | | | | | |
| Fluoride, Water Leachable | ND | 1.0 | mg/kg | | | | | | | |
| Nitrate as NO3, Water Leachable | ND | 5.0 | mg/kg | | | | | | | |
| Sulfate as S, Water Leachable | ND | 5.0 | mg/kg | | | | | | | |
| **LCS (W5J0909-BS1)** | | | | Analyzed: 10/17/15 12:04 | | | | | | |
| Bromide, Water Leachable | 86.1 | 5.0 | mg/kg | 79.9 | | 108 | 90-110 | | | |
| Chloride, Water Leachable | 43.7 | 5.0 | mg/kg | 39.9 | | 109 | 90-110 | | | |
| Fluoride, Water Leachable | 20.4 | 1.0 | mg/kg | 20.0 | | 102 | 90-110 | | | |
| Nitrate as NO3, Water Leachable | 83.0 | 5.0 | mg/kg | 79.9 | | 104 | 90-110 | | | |
| Sulfate as S, Water Leachable | 81.2 | 5.0 | mg/kg | 79.9 | | 102 | 90-110 | | | |
| **Duplicate (W5J0909-DUP1)** | **Source: 5I25014-01** | | | Analyzed: 10/17/15 14:16 | | | | | | |
| Bromide, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 29.6 | 37 | mg/kg | | 29.8 | | | 0.6 | 20 | |
| Fluoride, Water Leachable | 9.28 | 7.4 | mg/kg | | 9.40 | | | 1 | 20 | |
| Nitrate as NO3, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Sulfate as S, Water Leachable | 378 | 37 | mg/kg | | 438 | | | 15 | 20 | |
| **Duplicate (W5J0909-DUP2)** | **Source: 5I25014-02** | | | Analyzed: 10/17/15 15:12 | | | | | | |
| Bromide, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 77.2 | 37 | mg/kg | | 80.7 | | | 4 | 20 | |
| Fluoride, Water Leachable | 16.0 | 7.5 | mg/kg | | 16.1 | | | 0.5 | 20 | |
| Nitrate as NO3, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Sulfate as S, Water Leachable | 556 | 37 | mg/kg | | 567 | | | 2 | 20 | |
| **Duplicate (W5J0909-DUP3)** | **Source: 5I25014-03** | | | Analyzed: 10/17/15 15:39 | | | | | | |
| Bromide, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 51.6 | 37 | mg/kg | | 57.5 | | | 11 | 20 | |
| Fluoride, Water Leachable | 13.1 | 7.4 | mg/kg | | 13.6 | | | 4 | 20 | |
| Nitrate as NO3, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Sulfate as S, Water Leachable | 687 | 37 | mg/kg | | 724 | | | 5 | 20 | |
| **Duplicate (W5J0909-DUP4)** | **Source: 5J02045-01** | | | Analyzed: 10/17/15 16:07 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 51.8 | 15 | mg/kg | | 39.7 | | | 26 | 20 | A-01 |
| Fluoride, Water Leachable | 28.8 | 12 | mg/kg | | 31.8 | | | 10 | 20 | |
| Nitrate as NO3, Water Leachable | 3.30 | 15 | mg/kg | | 5.65 | | | 52 | 20 | A-01 |
| Sulfate as S, Water Leachable | ND | 60 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J0909-DUP5)** | **Source: 5J02045-02** | | | Analyzed: 10/17/15 18:42 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 48.9 | 15 | mg/kg | | 50.0 | | | 2 | 20 | |
| Fluoride, Water Leachable | 35.4 | 12 | mg/kg | | 34.1 | | | 4 | 20 | |



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## Anions in solids by EPA 9056/300.0 - Quality Control

**Batch W5J0909 - EPA 9056A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J0909-DUP5)** | | **Source: 5J02045-02** | | Analyzed: 10/17/15 18:42 | | | | | | |
| Nitrate as NO3, Water Leachable | 3.01 | 15 | mg/kg | | 3.55 | | | 16 | 20 | |
| Sulfate as S, Water Leachable | ND | 59 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J0909-DUP6)** | | **Source: 5J02045-03** | | Analyzed: 10/17/15 20:36 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | 4.18 | | | NR | 20 | A-01 |
| Chloride, Water Leachable | 32.5 | 15 | mg/kg | | 40.3 | | | 21 | 20 | A-01 |
| Fluoride, Water Leachable | 29.3 | 12 | mg/kg | | 34.6 | | | 16 | 20 | |
| Nitrate as NO3, Water Leachable | 4.55 | 15 | mg/kg | | 9.27 | | | 68 | 20 | A-01 |
| Sulfate as S, Water Leachable | ND | 59 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J0909-DUP7)** | | **Source: 5J02045-04** | | Analyzed: 10/17/15 21:31 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 42.8 | 15 | mg/kg | | 46.7 | | | 9 | 20 | |
| Fluoride, Water Leachable | 41.6 | 12 | mg/kg | | 41.2 | | | 1 | 20 | |
| Nitrate as NO3, Water Leachable | 2.26 | 15 | mg/kg | | 5.21 | | | 79 | 20 | A-01 |
| Sulfate as S, Water Leachable | ND | 60 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J0909-DUP8)** | | **Source: 5J02046-01** | | Analyzed: 10/17/15 19:23 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 87.1 | 15 | mg/kg | | 87.2 | | | 0.1 | 20 | |
| Fluoride, Water Leachable | 43.0 | 3.0 | mg/kg | | 48.8 | | | 13 | 20 | |
| Nitrate as NO3, Water Leachable | 5.55 | 15 | mg/kg | | 4.77 | | | 15 | 20 | |
| Sulfate as S, Water Leachable | 346 | 15 | mg/kg | | 394 | | | 13 | 20 | |
| **Duplicate (W5J0909-DUP9)** | | **Source: 5J02046-02** | | Analyzed: 10/17/15 22:12 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 81.7 | 15 | mg/kg | | 82.9 | | | 1 | 20 | |
| Fluoride, Water Leachable | 48.9 | 3.0 | mg/kg | | 44.9 | | | 8 | 20 | |
| Nitrate as NO3, Water Leachable | 7.00 | 15 | mg/kg | | 6.10 | | | 14 | 20 | |
| Sulfate as S, Water Leachable | 294 | 15 | mg/kg | | 286 | | | 3 | 20 | |
| **Duplicate (W5J0909-DUPA)** | | **Source: 5J02046-03** | | Analyzed: 10/17/15 22:39 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 83.8 | 15 | mg/kg | | 86.1 | | | 3 | 20 | |
| Fluoride, Water Leachable | 42.3 | 3.0 | mg/kg | | 43.6 | | | 3 | 20 | |
| Nitrate as NO3, Water Leachable | 7.38 | 15 | mg/kg | | 3.83 | | | 63 | 20 | A-01 |
| Sulfate as S, Water Leachable | 191 | 15 | mg/kg | | 263 | | | 32 | 20 | R-02 |
| **Matrix Spike (W5J0909-MS1)** | | **Source: 5J08055-02** | | Analyzed: 10/17/15 12:41 | | | | | | |
| Bromide, Water Leachable | 143 | 10 | mg/kg | 160 | ND | 89 | 76-113 | | | |
| Chloride, Water Leachable | 226 | 10 | mg/kg | 79.8 | 139 | 109 | 31-160 | | | |
| Fluoride, Water Leachable | 33.8 | 2.0 | mg/kg | 39.9 | 3.65 | 75 | 0.1-134 | | | |
| Nitrate as NO3, Water Leachable | 138 | 10 | mg/kg | 160 | 1.59 | 86 | 0.1-163 | | | |
| Sulfate as S, Water Leachable | 558 | 10 | mg/kg | 160 | 375 | 115 | 5-159 | | | |
| **Matrix Spike (W5J0909-MS2)** | | **Source: 5I25014-01** | | Analyzed: 10/17/15 14:30 | | | | | | |



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## Anions in solids by EPA 9056/300.0 - Quality Control

**Batch W5J0909 - EPA 9056A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J0909-MS2)** | | **Source: 5I25014-01** | | Analyzed: 10/17/15 14:30 | | | | | | |
| Bromide, Water Leachable | 1170 | 72 | mg/kg | 1160 | ND | 101 | 76-113 | | | |
| Chloride, Water Leachable | 669 | 72 | mg/kg | 580 | 29.8 | 110 | 31-160 | | | |
| Fluoride, Water Leachable | 308 | 14 | mg/kg | 290 | 9.40 | 103 | 0.1-134 | | | |
| Nitrate as NO3, Water Leachable | 1160 | 72 | mg/kg | 1160 | ND | 100 | 0.1-163 | | | |
| Sulfate as S, Water Leachable | 1650 | 72 | mg/kg | 1160 | 438 | 104 | 5-159 | | | |
| **Matrix Spike (W5J0909-MS3)** | | **Source: 5J02045-01** | | Analyzed: 10/17/15 16:21 | | | | | | |
| Bromide, Water Leachable | 440 | 30 | mg/kg | 475 | ND | 93 | 76-113 | | | |
| Chloride, Water Leachable | 259 | 30 | mg/kg | 238 | 39.7 | 92 | 31-160 | | | |
| Fluoride, Water Leachable | 173 | 5.9 | mg/kg | 119 | 31.8 | 119 | 0.1-134 | | | |
| Nitrate as NO3, Water Leachable | 426 | 30 | mg/kg | 475 | 5.65 | 88 | 0.1-163 | | | |
| Sulfate as S, Water Leachable | 133 | 120 | mg/kg | 475 | ND | 28 | 5-159 | | | |
| **Matrix Spike (W5J0909-MS4)** | | **Source: 5J02046-01** | | Analyzed: 10/17/15 19:37 | | | | | | |
| Bromide, Water Leachable | 932 | 59 | mg/kg | 938 | ND | 99 | 76-113 | | | |
| Chloride, Water Leachable | 523 | 59 | mg/kg | 469 | 87.2 | 93 | 31-160 | | | |
| Fluoride, Water Leachable | 267 | 12 | mg/kg | 234 | 48.8 | 93 | 0.1-134 | | | |
| Nitrate as NO3, Water Leachable | 979 | 59 | mg/kg | 938 | 4.77 | 104 | 0.1-163 | | | |
| Sulfate as S, Water Leachable | 1140 | 59 | mg/kg | 938 | 394 | 79 | 5-159 | | | |
| **Matrix Spike Dup (W5J0909-MSD1)** | | **Source: 5J08055-02** | | Analyzed: 10/17/15 12:55 | | | | | | |
| Bromide, Water Leachable | 153 | 10 | mg/kg | 160 | ND | 96 | 76-113 | 7 | 20 | |
| Chloride, Water Leachable | 217 | 10 | mg/kg | 79.8 | 139 | 97 | 31-160 | 4 | 20 | |
| Fluoride, Water Leachable | 41.5 | 2.0 | mg/kg | 39.9 | 3.65 | 95 | 0.1-134 | 21 | 20 | Q-12 |
| Nitrate as NO3, Water Leachable | 148 | 10 | mg/kg | 160 | 1.59 | 92 | 0.1-163 | 7 | 20 | |
| Sulfate as S, Water Leachable | 546 | 10 | mg/kg | 160 | 375 | 107 | 5-159 | 2 | 20 | |
| **Matrix Spike Dup (W5J0909-MSD2)** | | **Source: 5I25014-01** | | Analyzed: 10/17/15 14:45 | | | | | | |
| Bromide, Water Leachable | 1180 | 73 | mg/kg | 1170 | ND | 102 | 76-113 | 0.7 | 20 | |
| Chloride, Water Leachable | 653 | 73 | mg/kg | 583 | 29.8 | 107 | 31-160 | 2 | 20 | |
| Fluoride, Water Leachable | 300 | 15 | mg/kg | 291 | 9.40 | 100 | 0.1-134 | 3 | 20 | |
| Nitrate as NO3, Water Leachable | 1160 | 73 | mg/kg | 1170 | ND | 100 | 0.1-163 | 0.2 | 20 | |
| Sulfate as S, Water Leachable | 1480 | 73 | mg/kg | 1170 | 438 | 89 | 5-159 | 11 | 20 | |
| **Matrix Spike Dup (W5J0909-MSD3)** | | **Source: 5J02045-01** | | Analyzed: 10/17/15 16:36 | | | | | | |
| Bromide, Water Leachable | 444 | 29 | mg/kg | 470 | ND | 95 | 76-113 | 0.9 | 20 | |
| Chloride, Water Leachable | 260 | 29 | mg/kg | 235 | 39.7 | 94 | 31-160 | 0.4 | 20 | |
| Fluoride, Water Leachable | 173 | 5.9 | mg/kg | 117 | 31.8 | 121 | 0.1-134 | 0.04 | 20 | |
| Nitrate as NO3, Water Leachable | 439 | 29 | mg/kg | 470 | 5.65 | 92 | 0.1-163 | 3 | 20 | |
| Sulfate as S, Water Leachable | 131 | 120 | mg/kg | 470 | ND | 28 | 5-159 | 2 | 20 | |
| **Matrix Spike Dup (W5J0909-MSD4)** | | **Source: 5J02046-01** | | Analyzed: 10/17/15 19:52 | | | | | | |
| Bromide, Water Leachable | 910 | 58 | mg/kg | 927 | ND | 98 | 76-113 | 2 | 20 | |
| Chloride, Water Leachable | 544 | 58 | mg/kg | 463 | 87.2 | 99 | 31-160 | 4 | 20 | |
| Fluoride, Water Leachable | 278 | 12 | mg/kg | 232 | 48.8 | 99 | 0.1-134 | 4 | 20 | |

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## Anions in solids by EPA 9056/300.0 - Quality Control

**Batch W5J0909 - EPA 9056A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5J0909-MSD4)** | | **Source: 5J02046-01** | | Analyzed: 10/17/15 19:52 | | | | | | |
| Nitrate as NO3, Water Leachable | 904 | 58 | mg/kg | 927 | 4.77 | 97 | 0.1-163 | 8 | 20 | |
| Sulfate as S, Water Leachable | 1200 | 58 | mg/kg | 927 | 394 | 87 | 5-159 | 6 | 20 | |

## Hydrocarbons by EPA 8015B - Quality Control

**Batch W5J0866 - EPA 8015B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J0866-BLK1)** | | | | Analyzed: 10/16/15 14:56 | | | | | | |
| Gasoline Range Organics | ND | 0.50 | mg/kg | | | | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.235* | | *mg/kg* | *0.250* | | *94* | *54-139* | | | |
| **LCS (W5J0866-BS1)** | | | | Analyzed: 10/16/15 13:57 | | | | | | |
| Gasoline Range Organics | 5.06 | 0.50 | mg/kg | 5.00 | | 101 | 76-123 | | | |
| *Surr: 4-Bromofluorobenzene* | *0.240* | | *mg/kg* | *0.250* | | *96* | *54-139* | | | |
| **Matrix Spike (W5J0866-MS1)** | | **Source: 5I25014-03** | | Analyzed: 10/16/15 20:21 | | | | | | |
| Gasoline Range Organics | 1760 | 250 | mg/kg | 2500 | ND | 70 | 3-126 | | | |
| *Surr: 4-Bromofluorobenzene* | *92.5* | | *mg/kg* | *125* | | *74* | *54-139* | | | |
| **Matrix Spike (W5J0866-MS2)** | | **Source: 5J02045-02** | | Analyzed: 10/17/15 00:18 | | | | | | |
| Gasoline Range Organics | 1970 | 250 | mg/kg | 2500 | ND | 79 | 3-126 | | | |
| *Surr: 4-Bromofluorobenzene* | *115* | | *mg/kg* | *125* | | *92* | *54-139* | | | |
| **Matrix Spike Dup (W5J0866-MSD1)** | | **Source: 5I25014-03** | | Analyzed: 10/16/15 20:51 | | | | | | |
| Gasoline Range Organics | 1840 | 250 | mg/kg | 2500 | ND | 74 | 3-126 | 4 | 25 | |
| *Surr: 4-Bromofluorobenzene* | *105* | | *mg/kg* | *125* | | *84* | *54-139* | | | |
| **Matrix Spike Dup (W5J0866-MSD2)** | | **Source: 5J02045-02** | | Analyzed: 10/17/15 00:47 | | | | | | |
| Gasoline Range Organics | 2040 | 250 | mg/kg | 2500 | ND | 82 | 3-126 | 4 | 25 | |
| *Surr: 4-Bromofluorobenzene* | *120* | | *mg/kg* | *125* | | *96* | *54-139* | | | |

**Batch W5J1579 - EPA 8015B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1579-BLK1)** | | | | Analyzed: 10/29/15 18:35 | | | | | | |
| Diesel Range Organics | ND | 5.0 | mg/kg | | | | | | | |
| *Surr: n-Tetracosane* | *24.7* | | *mg/kg* | *25.0* | | *99* | *53-134* | | | |
| **LCS (W5J1579-BS1)** | | | | Analyzed: 10/29/15 19:09 | | | | | | |
| Diesel Range Organics | 41.6 | 5.0 | mg/kg | 50.0 | | 83 | 49-125 | | | |
| *Surr: n-Tetracosane* | *24.5* | | *mg/kg* | *25.0* | | *98* | *53-134* | | | |
| **Matrix Spike (W5J1579-MS1)** | | **Source: 5I25014-01** | | Analyzed: 10/30/15 06:49 | | | | | | |
| Diesel Range Organics | 3100 | 100 | mg/kg | 1000 | 2150 | 96 | 42-121 | | | |
| *Surr: n-Tetracosane* | *483* | | *mg/kg* | *500* | | *97* | *53-134* | | | |
| **Matrix Spike (W5J1579-MS2)** | | **Source: 5J02045-01** | | Analyzed: 10/29/15 19:41 | | | | | | |
| Diesel Range Organics | 270 | 50 | mg/kg | 500 | 29.3 | 48 | 42-121 | | | |
| *Surr: n-Tetracosane* | *253* | | *mg/kg* | *250* | | *101* | *53-134* | | | |

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## Hydrocarbons by EPA 8015B - Quality Control

### Batch W5J1579 - EPA 8015B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J1579-MS3)** | | **Source: 5J02046-01** | | Analyzed: 10/30/15 01:50 | | | | | | |
| Diesel Range Organics | 2600 | 98 | mg/kg | 980 | 3040 | NR | 42-121 | | | |
| *Surr: n-Tetracosane* | *463* | | *mg/kg* | *490* | | *94* | *53-134* | | | |
| **Matrix Spike Dup (W5J1579-MSD1)** | | **Source: 5I25014-01** | | Analyzed: 10/30/15 07:22 | | | | | | |
| Diesel Range Organics | 2710 | 100 | mg/kg | 1000 | 2150 | 56 | 42-121 | 14 | 25 | |
| *Surr: n-Tetracosane* | *499* | | *mg/kg* | *500* | | *100* | *53-134* | | | |
| **Matrix Spike Dup (W5J1579-MSD2)** | | **Source: 5J02045-01** | | Analyzed: 10/29/15 20:15 | | | | | | |
| Diesel Range Organics | 314 | 50 | mg/kg | 500 | 29.3 | 57 | 42-121 | 15 | 25 | |
| *Surr: n-Tetracosane* | *241* | | *mg/kg* | *250* | | *96* | *53-134* | | | |
| **Matrix Spike Dup (W5J1579-MSD3)** | | **Source: 5J02046-01** | | Analyzed: 10/30/15 02:23 | | | | | | |
| Diesel Range Organics | 4100 | 98 | mg/kg | 980 | 3040 | 108 | 42-121 | 45 | 25 | |
| *Surr: n-Tetracosane* | *443* | | *mg/kg* | *490* | | *90* | *53-134* | | | |

### Batch W5K0050 - EPA 8015B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5K0050-BLK1)** | | | | Analyzed: 10/28/15 12:49 | | | | | | |
| Gasoline Range Organics | ND | 0.50 | mg/kg | | | | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.245* | | *mg/kg* | *0.250* | | *98* | *54-139* | | | |
| **LCS (W5K0050-BS1)** | | | | Analyzed: 10/28/15 11:50 | | | | | | |
| Gasoline Range Organics | 4.72 | 0.50 | mg/kg | 5.00 | | 94 | 76-123 | | | |
| *Surr: 4-Bromofluorobenzene* | *0.230* | | *mg/kg* | *0.250* | | *92* | *54-139* | | | |
| **LCS Dup (W5K0050-BSD1)** | | | | Analyzed: 10/28/15 12:20 | | | | | | |
| Gasoline Range Organics | 5.03 | 0.50 | mg/kg | 5.00 | | 101 | 76-123 | 6 | 25 | |
| *Surr: 4-Bromofluorobenzene* | *0.250* | | *mg/kg* | *0.250* | | *100* | *54-139* | | | |

### Batch W5K0345 - EPA 8015B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5K0345-BLK1)** | | | | Analyzed: 10/30/15 23:46 | | | | | | |
| Diesel Range Organics | 22.6 | 5.0 | mg/kg | | | | | | | HC-02 |
| *Surr: n-Tetracosane* | *27.9* | | *mg/kg* | *25.0* | | *112* | *53-134* | | | |

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

### Batch W5J1021 - EPA 6010B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1021-BLK1)** | | | | Analyzed: 10/27/15 12:30 | | | | | | |
| Boron, Total | ND | 1.0 | mg/kg | | | | | | | |
| Calcium, Total | ND | 50 | mg/kg | | | | | | | |
| Iron, Total | ND | 5.0 | mg/kg | | | | | | | |
| Lithium, Total | ND | 5.0 | mg/kg | | | | | | | |
| Magnesium, Total | ND | 50 | mg/kg | | | | | | | |

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## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

### Batch W5J1021 - EPA 6010B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1021-BLK1)** | | | | Analyzed: 10/27/15 12:30 | | | | | | |
| Manganese, Total | ND | 1.0 | mg/kg | | | | | | | |
| Potassium, Total | ND | 50 | mg/kg | | | | | | | |
| Sodium, Total | ND | 100 | mg/kg | | | | | | | |
| **LCS (W5J1021-BS1)** | | | | Analyzed: 10/27/15 12:33 | | | | | | |
| Boron, Total | 46.8 | 1.0 | mg/kg | 50.0 | | 93 | 80-120 | | | |
| Calcium, Total | 2340 | 50 | mg/kg | 2550 | | 92 | 80-120 | | | |
| Iron, Total | 46.3 | 5.0 | mg/kg | 50.0 | | 93 | 80-120 | | | |
| Lithium, Total | 40.6 | 5.0 | mg/kg | 40.0 | | 101 | 80-120 | | | |
| Magnesium, Total | 2180 | 50 | mg/kg | 2550 | | 86 | 80-120 | | | |
| Manganese, Total | 47.7 | 1.0 | mg/kg | 50.0 | | 95 | 80-120 | | | |
| Potassium, Total | 2440 | 50 | mg/kg | 2550 | | 96 | 80-120 | | | |
| Sodium, Total | 2380 | 100 | mg/kg | 2550 | | 93 | 80-120 | | | |
| **Duplicate (W5J1021-DUP1)** | **Source: 5I25014-01** | | | Analyzed: 10/27/15 12:44 | | | | | | |
| Boron, Total | 14.5 | 3.9 | mg/kg | | 15.4 | | | 6 | 20 | |
| Calcium, Total | 2190 | 200 | mg/kg | | 2230 | | | 2 | 20 | |
| Iron, Total | 27.7 | 20 | mg/kg | | 26.7 | | | 4 | 20 | |
| Lithium, Total | ND | 20 | mg/kg | | ND | | | NR | 20 | R-03 |
| Magnesium, Total | 1970 | 200 | mg/kg | | 2030 | | | 3 | 20 | |
| Manganese, Total | 15.7 | 3.9 | mg/kg | | 15.7 | | | 0.1 | 20 | |
| Potassium, Total | 4890 | 200 | mg/kg | | 4850 | | | 0.9 | 20 | |
| Sodium, Total | ND | 390 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J1021-DUP2)** | **Source: 5I25014-02** | | | Analyzed: 10/27/15 12:50 | | | | | | |
| Boron, Total | 34.5 | 3.9 | mg/kg | | 35.1 | | | 2 | 20 | |
| Calcium, Total | 2750 | 190 | mg/kg | | 2820 | | | 2 | 20 | |
| Iron, Total | 34.1 | 19 | mg/kg | | 35.2 | | | 3 | 20 | |
| Lithium, Total | ND | 19 | mg/kg | | ND | | | NR | 20 | |
| Magnesium, Total | 2430 | 190 | mg/kg | | 2420 | | | 0.7 | 20 | |
| Manganese, Total | 17.2 | 3.9 | mg/kg | | 17.2 | | | 0.6 | 20 | |
| Potassium, Total | 7050 | 190 | mg/kg | | 7110 | | | 0.8 | 20 | |
| Sodium, Total | ND | 390 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J1021-DUP3)** | **Source: 5I25014-03** | | | Analyzed: 10/27/15 12:55 | | | | | | |
| Boron, Total | 17.6 | 4.0 | mg/kg | | 17.5 | | | 0.4 | 20 | |
| Calcium, Total | 2980 | 200 | mg/kg | | 2930 | | | 2 | 20 | |
| Iron, Total | 30.9 | 20 | mg/kg | | 34.3 | | | 11 | 20 | |
| Lithium, Total | ND | 20 | mg/kg | | ND | | | NR | 20 | R-03 |
| Magnesium, Total | 2600 | 200 | mg/kg | | 2620 | | | 0.7 | 20 | |
| Manganese, Total | 19.1 | 4.0 | mg/kg | | 20.2 | | | 6 | 20 | |
| Potassium, Total | 5780 | 200 | mg/kg | | 5860 | | | 1 | 20 | |
| Sodium, Total | ND | 400 | mg/kg | | ND | | | NR | 20 | |



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## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

### Batch W5J1021 - EPA 6010B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J1021-MS1)** | **Source: 5I25014-01** | | | Analyzed: 10/27/15 12:58 | | | | | | |
| Boron, Total | 205 | 3.8 | mg/kg | 188 | 15.4 | 101 | 75-125 | | | |
| Calcium, Total | 11900 | 190 | mg/kg | 9580 | 2230 | 100 | 75-125 | | | |
| Iron, Total | 211 | 19 | mg/kg | 188 | 26.7 | 98 | 75-125 | | | |
| Lithium, Total | 157 | 19 | mg/kg | 151 | ND | 104 | 75-125 | | | |
| Magnesium, Total | 10900 | 190 | mg/kg | 9580 | 2030 | 93 | 75-125 | | | |
| Manganese, Total | 205 | 3.8 | mg/kg | 188 | 15.7 | 101 | 75-125 | | | |
| Potassium, Total | 14100 | 190 | mg/kg | 9580 | 4850 | 96 | 75-125 | | | |
| Sodium, Total | 9370 | 380 | mg/kg | 9580 | ND | 98 | 75-125 | | | |
| **Matrix Spike Dup (W5J1021-MSD1)** | **Source: 5I25014-01** | | | Analyzed: 10/27/15 13:01 | | | | | | |
| Boron, Total | 206 | 3.9 | mg/kg | 197 | 15.4 | 97 | 75-125 | 0.7 | 20 | |
| Calcium, Total | 11600 | 200 | mg/kg | 10000 | 2230 | 93 | 75-125 | 2 | 20 | |
| Iron, Total | 212 | 20 | mg/kg | 197 | 26.7 | 94 | 75-125 | 0.1 | 20 | |
| Lithium, Total | 161 | 20 | mg/kg | 158 | ND | 102 | 75-125 | 2 | 20 | |
| Magnesium, Total | 10900 | 200 | mg/kg | 10000 | 2030 | 88 | 75-125 | 0.1 | 20 | |
| Manganese, Total | 205 | 3.9 | mg/kg | 197 | 15.7 | 96 | 75-125 | 0.2 | 20 | |
| Potassium, Total | 14100 | 200 | mg/kg | 10000 | 4850 | 93 | 75-125 | 0.5 | 20 | |
| Sodium, Total | 9500 | 390 | mg/kg | 10000 | ND | 95 | 75-125 | 1 | 20 | |

### Batch W5J1024 - EPA 6020A

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1024-BLK1)** | | | | Analyzed: 10/27/15 12:43 | | | | | | |
| Antimony, Total | ND | 2.0 | mg/kg | | | | | | | |
| Arsenic, Total | ND | 2.0 | mg/kg | | | | | | | |
| Barium, Total | ND | 2.0 | mg/kg | | | | | | | |
| Beryllium, Total | ND | 1.2 | mg/kg | | | | | | | |
| Cadmium, Total | ND | 0.80 | mg/kg | | | | | | | |
| Chromium, Total | ND | 4.0 | mg/kg | | | | | | | |
| Cobalt, Total | ND | 2.0 | mg/kg | | | | | | | |
| Copper, Total | ND | 2.0 | mg/kg | | | | | | | |
| Lead, Total | ND | 2.0 | mg/kg | | | | | | | |
| Molybdenum, Total | ND | 2.0 | mg/kg | | | | | | | |
| Nickel, Total | ND | 4.0 | mg/kg | | | | | | | |
| Selenium, Total | ND | 2.0 | mg/kg | | | | | | | |
| Silver, Total | ND | 2.0 | mg/kg | | | | | | | |
| Strontium, Total | ND | 2.0 | mg/kg | | | | | | | |
| Thallium, Total | ND | 2.0 | mg/kg | | | | | | | |
| Uranium, Total | ND | 2.0 | mg/kg | | | | | | | |
| Vanadium, Total | ND | 4.0 | mg/kg | | | | | | | |
| Zinc, Total | ND | 20 | mg/kg | | | | | | | |



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## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

**Batch W5J1024 - EPA 6020A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS (W5J1024-BS1)** | | | | Analyzed: 10/27/15 12:50 | | | | | | |
| Antimony, Total | 735 | 2.0 | mg/kg | 800 | | 92 | 80-120 | | | |
| Arsenic, Total | 764 | 2.0 | mg/kg | 800 | | 96 | 80-120 | | | |
| Barium, Total | 798 | 2.0 | mg/kg | 800 | | 100 | 80-120 | | | |
| Beryllium, Total | 807 | 1.2 | mg/kg | 800 | | 101 | 80-120 | | | |
| Cadmium, Total | 732 | 0.80 | mg/kg | 800 | | 92 | 80-120 | | | |
| Chromium, Total | 776 | 4.0 | mg/kg | 800 | | 97 | 80-120 | | | |
| Cobalt, Total | 803 | 2.0 | mg/kg | 800 | | 100 | 80-120 | | | |
| Copper, Total | 811 | 2.0 | mg/kg | 800 | | 101 | 80-120 | | | |
| Lead, Total | 781 | 2.0 | mg/kg | 800 | | 98 | 80-120 | | | |
| Molybdenum, Total | 748 | 2.0 | mg/kg | 800 | | 94 | 80-120 | | | |
| Nickel, Total | 766 | 4.0 | mg/kg | 800 | | 96 | 80-120 | | | |
| Selenium, Total | 699 | 2.0 | mg/kg | 800 | | 87 | 80-120 | | | |
| Silver, Total | 736 | 2.0 | mg/kg | 800 | | 92 | 80-120 | | | |
| Strontium, Total | 1530 | 2.0 | mg/kg | 1600 | | 95 | 80-120 | | | |
| Thallium, Total | 748 | 2.0 | mg/kg | 800 | | 93 | 80-120 | | | |
| Uranium, Total | 787 | 2.0 | mg/kg | 800 | | 98 | 80-120 | | | |
| Vanadium, Total | 771 | 4.0 | mg/kg | 800 | | 96 | 80-120 | | | |
| Zinc, Total | 744 | 20 | mg/kg | 800 | | 93 | 80-120 | | | |
| **Duplicate (W5J1024-DUP1)** | | **Source: 5I25014-01** | | Analyzed: 10/27/15 13:33 | | | | | | |
| Antimony, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Arsenic, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Barium, Total | 7.60 | 2.0 | mg/kg | | 7.49 | | | 1 | 20 | |
| Beryllium, Total | ND | 1.2 | mg/kg | | ND | | | NR | 20 | |
| Cadmium, Total | ND | 0.79 | mg/kg | | ND | | | NR | 20 | |
| Chromium, Total | ND | 3.9 | mg/kg | | ND | | | NR | 20 | |
| Cobalt, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Copper, Total | 38.6 | 2.0 | mg/kg | | 38.2 | | | 1 | 20 | |
| Lead, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Molybdenum, Total | 1.30 | 2.0 | mg/kg | | 1.59 | | | 20 | 20 | |
| Nickel, Total | 4.80 | 3.9 | mg/kg | | 5.38 | | | 11 | 20 | |
| Selenium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Silver, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Strontium, Total | 38.5 | 2.0 | mg/kg | | 37.3 | | | 3 | 20 | |
| Thallium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Uranium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Vanadium, Total | ND | 3.9 | mg/kg | | ND | | | NR | 20 | |
| Zinc, Total | 97.6 | 20 | mg/kg | | 109 | | | 11 | 20 | |
| **Duplicate (W5J1024-DUP2)** | | **Source: 5I25014-02** | | Analyzed: 10/27/15 14:16 | | | | | | |
| Antimony, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |

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## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

**Batch W5J1024 - EPA 6020A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1024-DUP2)** | **Source: 5I25014-02** | | | Analyzed: 10/27/15 14:16 | | | | | | |
| Arsenic, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Barium, Total | 10.4 | 1.9 | mg/kg | | 10.6 | | | 2 | 20 | |
| Beryllium, Total | ND | 1.2 | mg/kg | | ND | | | NR | 20 | |
| Cadmium, Total | ND | 0.78 | mg/kg | | ND | | | NR | 20 | |
| Chromium, Total | 1.21 | 3.9 | mg/kg | | 1.21 | | | 0.4 | 20 | |
| Cobalt, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Copper, Total | 36.2 | 1.9 | mg/kg | | 37.1 | | | 3 | 20 | |
| Lead, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Molybdenum, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Nickel, Total | 3.00 | 3.9 | mg/kg | | 3.16 | | | 5 | 20 | |
| Selenium, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Silver, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Strontium, Total | 41.6 | 1.9 | mg/kg | | 42.4 | | | 2 | 20 | |
| Thallium, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Uranium, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Vanadium, Total | ND | 3.9 | mg/kg | | ND | | | NR | 20 | |
| Zinc, Total | 118 | 19 | mg/kg | | 124 | | | 5 | 20 | |
| **Duplicate (W5J1024-DUP3)** | **Source: 5I25014-03** | | | Analyzed: 10/27/15 14:31 | | | | | | |
| Antimony, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Arsenic, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Barium, Total | 11.3 | 2.0 | mg/kg | | 11.7 | | | 4 | 20 | |
| Beryllium, Total | ND | 1.2 | mg/kg | | ND | | | NR | 20 | |
| Cadmium, Total | ND | 0.79 | mg/kg | | ND | | | NR | 20 | |
| Chromium, Total | ND | 4.0 | mg/kg | | 0.916 | | | NR | 20 | R-03 |
| Cobalt, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Copper, Total | 28.1 | 2.0 | mg/kg | | 28.8 | | | 3 | 20 | |
| Lead, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Molybdenum, Total | 1.75 | 2.0 | mg/kg | | 1.83 | | | 5 | 20 | |
| Nickel, Total | 2.70 | 4.0 | mg/kg | | 2.83 | | | 5 | 20 | |
| Selenium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Silver, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Strontium, Total | 40.1 | 2.0 | mg/kg | | 40.2 | | | 0.3 | 20 | |
| Thallium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Uranium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Vanadium, Total | ND | 4.0 | mg/kg | | ND | | | NR | 20 | |
| Zinc, Total | 91.4 | 20 | mg/kg | | 93.4 | | | 2 | 20 | |
| **Matrix Spike (W5J1024-MS1)** | **Source: 5I25014-01** | | | Analyzed: 10/27/15 12:57 | | | | | | |
| Antimony, Total | 686 | 1.9 | mg/kg | 752 | ND | 91 | 75-125 | | | |
| Arsenic, Total | 728 | 1.9 | mg/kg | 752 | ND | 97 | 75-125 | | | |

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## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

**Batch W5J1024 - EPA 6020A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J1024-MS1)** | **Source: 5I25014-01** | | | Analyzed: 10/27/15 12:57 | | | | | | |
| Barium, Total | 765 | 1.9 | mg/kg | 752 | 7.49 | 101 | 75-125 | | | |
| Beryllium, Total | 762 | 1.1 | mg/kg | 752 | ND | 101 | 75-125 | | | |
| Cadmium, Total | 700 | 0.75 | mg/kg | 752 | ND | 93 | 75-125 | | | |
| Chromium, Total | 735 | 3.8 | mg/kg | 752 | ND | 98 | 75-125 | | | |
| Cobalt, Total | 765 | 1.9 | mg/kg | 752 | ND | 102 | 75-125 | | | |
| Copper, Total | 812 | 1.9 | mg/kg | 752 | 38.2 | 103 | 75-125 | | | |
| Lead, Total | 741 | 1.9 | mg/kg | 752 | ND | 99 | 75-125 | | | |
| Molybdenum, Total | 706 | 1.9 | mg/kg | 752 | 1.59 | 94 | 75-125 | | | |
| Nickel, Total | 728 | 3.8 | mg/kg | 752 | 5.38 | 96 | 75-125 | | | |
| Selenium, Total | 686 | 1.9 | mg/kg | 752 | ND | 91 | 75-125 | | | |
| Silver, Total | 692 | 1.9 | mg/kg | 752 | ND | 92 | 75-125 | | | |
| Strontium, Total | 1480 | 1.9 | mg/kg | 1510 | 37.3 | 96 | 75-125 | | | |
| Thallium, Total | 704 | 1.9 | mg/kg | 752 | ND | 94 | 75-125 | | | |
| Uranium, Total | 739 | 1.9 | mg/kg | 752 | ND | 98 | 75-125 | | | |
| Vanadium, Total | 732 | 3.8 | mg/kg | 752 | ND | 97 | 75-125 | | | |
| Zinc, Total | 798 | 19 | mg/kg | 752 | 109 | 92 | 75-125 | | | |
| **Matrix Spike Dup (W5J1024-MSD1)** | **Source: 5I25014-01** | | | Analyzed: 10/27/15 13:04 | | | | | | |
| Antimony, Total | 720 | 2.0 | mg/kg | 787 | ND | 91 | 75-125 | 5 | 20 | |
| Arsenic, Total | 759 | 2.0 | mg/kg | 787 | ND | 96 | 75-125 | 4 | 20 | |
| Barium, Total | 791 | 2.0 | mg/kg | 787 | 7.49 | 100 | 75-125 | 3 | 20 | |
| Beryllium, Total | 819 | 1.2 | mg/kg | 787 | ND | 104 | 75-125 | 7 | 20 | |
| Cadmium, Total | 733 | 0.79 | mg/kg | 787 | ND | 93 | 75-125 | 5 | 20 | |
| Chromium, Total | 784 | 3.9 | mg/kg | 787 | ND | 100 | 75-125 | 6 | 20 | |
| Cobalt, Total | 824 | 2.0 | mg/kg | 787 | ND | 105 | 75-125 | 7 | 20 | |
| Copper, Total | 834 | 2.0 | mg/kg | 787 | 38.2 | 101 | 75-125 | 3 | 20 | |
| Lead, Total | 776 | 2.0 | mg/kg | 787 | ND | 99 | 75-125 | 5 | 20 | |
| Molybdenum, Total | 736 | 2.0 | mg/kg | 787 | 1.59 | 93 | 75-125 | 4 | 20 | |
| Nickel, Total | 771 | 3.9 | mg/kg | 787 | 5.38 | 97 | 75-125 | 6 | 20 | |
| Selenium, Total | 721 | 2.0 | mg/kg | 787 | ND | 92 | 75-125 | 5 | 20 | |
| Silver, Total | 738 | 2.0 | mg/kg | 787 | ND | 94 | 75-125 | 6 | 20 | |
| Strontium, Total | 1560 | 2.0 | mg/kg | 1580 | 37.3 | 96 | 75-125 | 5 | 20 | |
| Thallium, Total | 737 | 2.0 | mg/kg | 787 | ND | 94 | 75-125 | 5 | 20 | |
| Uranium, Total | 771 | 2.0 | mg/kg | 787 | ND | 98 | 75-125 | 4 | 20 | |
| Vanadium, Total | 778 | 3.9 | mg/kg | 787 | ND | 99 | 75-125 | 6 | 20 | |
| Zinc, Total | 826 | 20 | mg/kg | 787 | 109 | 91 | 75-125 | 3 | 20 | |

## Semivolatile Organics - Low Level by GC/MS SIM Mode - Quality Control

**Batch W5J0842 - EPA 8270C SIM**



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Semivolatile Organics - Low Level by GC/MS SIM Mode - Quality Control

**Batch W5J0842 - EPA 8270C SIM**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J0842-BLK1)** | | | | Analyzed: 11/05/15 22:53 | | | | | | |
| 1-Methylnaphthalene | ND | 5.0 | ug/kg | | | | | | | |
| 2-Methylnaphthalene | ND | 5.0 | ug/kg | | | | | | | |
| Acenaphthene | ND | 5.0 | ug/kg | | | | | | | |
| Acenaphthylene | ND | 5.0 | ug/kg | | | | | | | |
| Anthracene | ND | 5.0 | ug/kg | | | | | | | |
| Benzo (a) anthracene | ND | 5.0 | ug/kg | | | | | | | |
| Benzo (a) pyrene | ND | 5.0 | ug/kg | | | | | | | |
| Benzo (b) fluoranthene | ND | 5.0 | ug/kg | | | | | | | |
| Benzo (g,h,i) perylene | ND | 5.0 | ug/kg | | | | | | | |
| Benzo (k) fluoranthene | ND | 5.0 | ug/kg | | | | | | | |
| Chrysene | ND | 5.0 | ug/kg | | | | | | | |
| Dibenzo (a,h) anthracene | ND | 5.0 | ug/kg | | | | | | | |
| Fluoranthene | ND | 5.0 | ug/kg | | | | | | | |
| Fluorene | ND | 5.0 | ug/kg | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 5.0 | ug/kg | | | | | | | |
| Naphthalene | ND | 5.0 | ug/kg | | | | | | | |
| Phenanthrene | ND | 5.0 | ug/kg | | | | | | | |
| Pyrene | ND | 5.0 | ug/kg | | | | | | | |
| *Surr: 2-Fluorobiphenyl* | *96.4* | | *ug/kg* | *167* | | *58* | *0.1-109* | | | |
| *Surr: Nitrobenzene-d5* | *95.5* | | *ug/kg* | *167* | | *57* | *0.1-107* | | | |
| *Surr: Terphenyl-d14* | *80.0* | | *ug/kg* | *167* | | *48* | *28-128* | | | |
| **Matrix Spike (W5J0842-MS1)** | | **Source: 5I25014-01** | | Analyzed: 11/05/15 23:29 | | | | | | |
| Acenaphthene | 3650 | 68 | ug/kg | 4570 | ND | 80 | 5-115 | | | C-3640, M-02 |
| Acenaphthylene | 5030 | 68 | ug/kg | 4570 | ND | 110 | 8-111 | | | C-3640, M-02 |
| Anthracene | 3490 | 68 | ug/kg | 4570 | ND | 76 | 3-132 | | | C-3640, M-02 |
| Benzo (a) anthracene | 3850 | 68 | ug/kg | 4570 | ND | 84 | 14-125 | | | C-3640, M-02 |
| Benzo (a) pyrene | 3400 | 68 | ug/kg | 4570 | ND | 74 | 2-138 | | | C-3640, M-02 |
| Benzo (b) fluoranthene | 3290 | 68 | ug/kg | 4570 | ND | 72 | 20-150 | | | C-3640, M-02 |
| Benzo (g,h,i) perylene | 4110 | 68 | ug/kg | 4570 | ND | 90 | 9-129 | | | C-3640, M-02 |
| Benzo (k) fluoranthene | 3580 | 68 | ug/kg | 4570 | ND | 78 | 20-150 | | | C-3640, M-02 |
| Chrysene | 3650 | 68 | ug/kg | 4570 | ND | 80 | 20-150 | | | C-3640, M-02 |
| Dibenzo (a,h) anthracene | 4300 | 68 | ug/kg | 4570 | ND | 94 | 10-144 | | | C-3640, M-02 |
| Fluoranthene | 3850 | 68 | ug/kg | 4570 | ND | 84 | 11-127 | | | C-3640, M-02 |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Semivolatile Organics - Low Level by GC/MS SIM Mode - Quality Control

**Batch W5J0842 - EPA 8270C SIM**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J0842-MS1)** | **Source: 5I25014-01** | | | Analyzed: 11/05/15 23:29 | | | | | | |
| Fluorene | 4040 | 68 | ug/kg | 4570 | ND | 88 | 4-125 | | | C-3640, M-02 |
| Indeno (1,2,3-cd) pyrene | 3830 | 68 | ug/kg | 4570 | ND | 84 | 3-137 | | | C-3640, M-02 |
| Naphthalene | 3230 | 68 | ug/kg | 4570 | ND | 71 | 0.1-117 | | | C-3640, M-02 |
| Phenanthrene | 3460 | 68 | ug/kg | 4570 | ND | 76 | 10-122 | | | C-3640, M-02 |
| Pyrene | 3840 | 68 | ug/kg | 4570 | ND | 84 | 10-128 | | | C-3640, M-02 |
| *Surr: 2-Fluorobiphenyl* | *2090* | | *ug/kg* | *2280* | | *92* | *0.1-109* | | | *C-3640, M-02* |
| *Surr: Nitrobenzene-d5* | *1740* | | *ug/kg* | *2280* | | *76* | *0.1-107* | | | *C-3640, M-02* |
| *Surr: Terphenyl-d14* | *1340* | | *ug/kg* | *2280* | | *59* | *28-128* | | | *C-3640, M-02* |
| **Matrix Spike Dup (W5J0842-MSD1)** | **Source: 5I25014-01** | | | Analyzed: 11/06/15 00:04 | | | | | | |
| Acenaphthene | 4080 | 69 | ug/kg | 4590 | ND | 89 | 5-115 | 11 | 30 | C-3640, M-02 |
| Acenaphthylene | 5170 | 69 | ug/kg | 4590 | ND | 113 | 8-111 | 3 | 30 | C-3640, M-02, Q-ME |
| Anthracene | 3960 | 69 | ug/kg | 4590 | ND | 86 | 3-132 | 13 | 30 | M-02, C-3640 |
| Benzo (a) anthracene | 4360 | 69 | ug/kg | 4590 | ND | 95 | 14-125 | 13 | 30 | C-3640, M-02 |
| Benzo (a) pyrene | 3720 | 69 | ug/kg | 4590 | ND | 81 | 2-138 | 9 | 30 | C-3640, M-02 |
| Benzo (b) fluoranthene | 3830 | 69 | ug/kg | 4590 | ND | 83 | 20-150 | 15 | 30 | C-3640, M-02 |
| Benzo (g,h,i) perylene | 4540 | 69 | ug/kg | 4590 | ND | 99 | 9-129 | 10 | 30 | C-3640, M-02 |
| Benzo (k) fluoranthene | 3740 | 69 | ug/kg | 4590 | ND | 81 | 20-150 | 4 | 30 | C-3640, M-02 |
| Chrysene | 4030 | 69 | ug/kg | 4590 | ND | 88 | 20-150 | 10 | 30 | C-3640, M-02 |
| Dibenzo (a,h) anthracene | 4830 | 69 | ug/kg | 4590 | ND | 105 | 10-144 | 12 | 30 | C-3640, M-02 |
| Fluoranthene | 4370 | 69 | ug/kg | 4590 | ND | 95 | 11-127 | 13 | 30 | C-3640, M-02 |
| Fluorene | 4400 | 69 | ug/kg | 4590 | ND | 96 | 4-125 | 8 | 30 | M-02, C-3640 |
| Indeno (1,2,3-cd) pyrene | 4290 | 69 | ug/kg | 4590 | ND | 94 | 3-137 | 11 | 30 | C-3640, M-02 |
| Naphthalene | 3360 | 69 | ug/kg | 4590 | ND | 73 | 0.1-117 | 4 | 30 | C-3640, M-02 |
| Phenanthrene | 3890 | 69 | ug/kg | 4590 | ND | 85 | 10-122 | 12 | 30 | C-3640, M-02 |
| Pyrene | 4320 | 69 | ug/kg | 4590 | ND | 94 | 10-128 | 12 | 30 | C-3640, M-02 |

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## Semivolatile Organics - Low Level by GC/MS SIM Mode - Quality Control

### Batch W5J0842 - EPA 8270C SIM

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5J0842-MSD1)** | | **Source: 5I25014-01** | | Analyzed: 11/06/15 00:04 | | | | | | |
| *Surr: 2-Fluorobiphenyl* | *2200* | | *ug/kg* | *2290* | | *96* | *0.1-109* | | | *C-3640, M-02* |
| *Surr: Nitrobenzene-d5* | *1930* | | *ug/kg* | *2290* | | *84* | *0.1-107* | | | *C-3640, M-02* |
| *Surr: Terphenyl-d14* | *1460* | | *ug/kg* | *2290* | | *64* | *28-128* | | | *C-3640, M-02* |

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Batch W5J1037 - EPA 8260B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1037-BLK1)** | | | | Analyzed: 10/20/15 14:43 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 2-Butanone | ND | 5.0 | ug/kg | | | | | | | |
| 2-Chloroethyl vinyl ether | ND | 5.0 | ug/kg | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/kg | | | | | | | |
| 2-Hexanone | ND | 5.0 | ug/kg | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/kg | | | | | | | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/kg | | | | | | | |
| Acetone | ND | 5.0 | ug/kg | | | | | | | |
| Acrolein | ND | 5.0 | ug/kg | | | | | | | |
| Acrylonitrile | ND | 5.0 | ug/kg | | | | | | | |
| Benzene | ND | 5.0 | ug/kg | | | | | | | |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1037-BLK1)** | | | | Analyzed: 10/20/15 14:43 | | | | | | |
| Bromobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Bromodichloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Bromoform | ND | 5.0 | ug/kg | | | | | | | |
| Bromomethane | ND | 5.0 | ug/kg | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/kg | | | | | | | |
| Chlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Chloroethane | ND | 5.0 | ug/kg | | | | | | | |
| Chloroform | ND | 5.0 | ug/kg | | | | | | | |
| Chloromethane | ND | 5.0 | ug/kg | | | | | | | |
| cis-1,2-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| Dibromochloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Dibromomethane | ND | 5.0 | ug/kg | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 5.0 | ug/kg | | | | | | | |
| Ethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/kg | | | | | | | |
| Isopropylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| m,p-Xylene | ND | 5.0 | ug/kg | | | | | | | |
| m-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 5.0 | ug/kg | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/kg | | | | | | | |
| Naphthalene | ND | 5.0 | ug/kg | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| n-Propylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| o-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| o-Xylene | ND | 5.0 | ug/kg | | | | | | | |
| p-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| p-Isopropyltoluene | ND | 5.0 | ug/kg | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Styrene | ND | 5.0 | ug/kg | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Tetrachloroethene | ND | 5.0 | ug/kg | | | | | | | |
| Toluene | ND | 5.0 | ug/kg | | | | | | | |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| Trichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/kg | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/kg | | | | | | | |



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**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1037-BLK1)** | | | | Analyzed: 10/20/15 14:43 | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *50.2* | | *ug/kg* | *50.0* | | *100* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *49.5* | | *ug/kg* | *50.0* | | *99* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *49.8* | | *ug/kg* | *50.0* | | *100* | *84-120* | | | |
| *Surr: Toluene-d8* | *50.2* | | *ug/kg* | *50.0* | | *100* | *82-120* | | | |
| **LCS (W5J1037-BS1)** | | | | Analyzed: 10/20/15 12:36 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 81-120 | | | |
| 1,1,1-Trichloroethane | 50.6 | 5.0 | ug/kg | 50.0 | | 101 | 78-125 | | | |
| 1,1,2,2-Tetrachloroethane | 49.0 | 5.0 | ug/kg | 50.0 | | 98 | 67-115 | | | |
| 1,1,2-Trichloroethane | 49.1 | 5.0 | ug/kg | 50.0 | | 98 | 85-121 | | | |
| 1,1-Dichloroethane | 47.9 | 5.0 | ug/kg | 50.0 | | 96 | 84-118 | | | |
| 1,1-Dichloroethene | 46.8 | 5.0 | ug/kg | 50.0 | | 94 | 80-123 | | | |
| 1,1-Dichloropropene | 47.4 | 5.0 | ug/kg | 50.0 | | 95 | 79-128 | | | |
| 1,2,3-Trichlorobenzene | 52.4 | 5.0 | ug/kg | 50.0 | | 105 | 36-201 | | | |
| 1,2,3-Trichloropropane | 48.5 | 5.0 | ug/kg | 50.0 | | 97 | 65-115 | | | |
| 1,2,4-Trichlorobenzene | 54.1 | 5.0 | ug/kg | 50.0 | | 108 | 69-143 | | | |
| 1,2,4-Trimethylbenzene | 47.6 | 5.0 | ug/kg | 50.0 | | 95 | 70-119 | | | |
| 1,2-Dibromo-3-chloropropane | 47.8 | 5.0 | ug/kg | 50.0 | | 96 | 62-140 | | | |
| 1,2-Dibromoethane (EDB) | 52.0 | 5.0 | ug/kg | 50.0 | | 104 | 86-125 | | | |
| 1,2-Dichloroethane | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 74-123 | | | |
| 1,2-Dichloropropane | 49.4 | 5.0 | ug/kg | 50.0 | | 99 | 83-122 | | | |
| 1,3,5-Trimethylbenzene | 46.9 | 5.0 | ug/kg | 50.0 | | 94 | 66-122 | | | |
| 1,3-Dichloropropane | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 85-122 | | | |
| 2,2-Dichloropropane | 57.2 | 5.0 | ug/kg | 50.0 | | 114 | 78-124 | | | |
| 2-Butanone | 50.1 | 5.0 | ug/kg | 50.0 | | 100 | 65-139 | | | |
| 2-Chloroethyl vinyl ether | 47.3 | 5.0 | ug/kg | 50.0 | | 95 | 62-134 | | | |
| 2-Chlorotoluene | 47.1 | 5.0 | ug/kg | 50.0 | | 94 | 65-118 | | | |
| 2-Hexanone | 53.3 | 5.0 | ug/kg | 50.0 | | 107 | 72-138 | | | |
| 4-Chlorotoluene | 47.0 | 5.0 | ug/kg | 50.0 | | 94 | 71-116 | | | |
| 4-Methyl-2-pentanone | 49.1 | 5.0 | ug/kg | 50.0 | | 98 | 70-133 | | | |
| Acetone | 47.8 | 5.0 | ug/kg | 50.0 | | 96 | 57-138 | | | |
| Acrolein | 28.3 | 5.0 | ug/kg | 50.0 | | 57 | 57-139 | | | |
| Acrylonitrile | 45.6 | 5.0 | ug/kg | 50.0 | | 91 | 78-124 | | | |
| Benzene | 47.1 | 5.0 | ug/kg | 50.0 | | 94 | 83-121 | | | |
| Bromobenzene | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 67-115 | | | |
| Bromochloromethane | 50.2 | 5.0 | ug/kg | 50.0 | | 100 | 82-117 | | | |
| Bromodichloromethane | 48.9 | 5.0 | ug/kg | 50.0 | | 98 | 78-122 | | | |
| Bromoform | 47.6 | 5.0 | ug/kg | 50.0 | | 95 | 83-125 | | | |
| Bromomethane | 47.7 | 5.0 | ug/kg | 50.0 | | 95 | 58-133 | | | |
| Carbon tetrachloride | 46.4 | 5.0 | ug/kg | 50.0 | | 93 | 79-126 | | | |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS (W5J1037-BS1)** | | | | Analyzed: 10/20/15 12:36 | | | | | | |
| Chlorobenzene | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 84-118 | | | |
| Chloroethane | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 58-135 | | | |
| Chloroform | 47.8 | 5.0 | ug/kg | 50.0 | | 96 | 80-123 | | | |
| Chloromethane | 45.3 | 5.0 | ug/kg | 50.0 | | 91 | 58-128 | | | |
| cis-1,2-Dichloroethene | 48.0 | 5.0 | ug/kg | 50.0 | | 96 | 83-120 | | | |
| cis-1,3-Dichloropropene | 52.4 | 5.0 | ug/kg | 50.0 | | 105 | 88-123 | | | |
| Dibromochloromethane | 48.2 | 5.0 | ug/kg | 50.0 | | 96 | 83-124 | | | |
| Dibromomethane | 48.1 | 5.0 | ug/kg | 50.0 | | 96 | 84-123 | | | |
| Dichlorodifluoromethane (Freon 12) | 47.8 | 5.0 | ug/kg | 50.0 | | 96 | 67-126 | | | |
| Ethylbenzene | 46.9 | 5.0 | ug/kg | 50.0 | | 94 | 80-120 | | | |
| Hexachlorobutadiene | 46.9 | 5.0 | ug/kg | 50.0 | | 94 | 70-130 | | | |
| Isopropylbenzene | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 66-122 | | | |
| m,p-Xylene | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 78-120 | | | |
| m-Dichlorobenzene | 47.6 | 5.0 | ug/kg | 50.0 | | 95 | 75-119 | | | |
| Methyl tert-butyl ether (MTBE) | 66.4 | 5.0 | ug/kg | 50.0 | | 133 | 83-122 | | | Q-ME |
| Methylene chloride | 47.6 | 5.0 | ug/kg | 50.0 | | 95 | 76-118 | | | |
| Naphthalene | 50.4 | 5.0 | ug/kg | 50.0 | | 101 | 42-190 | | | |
| n-Butylbenzene | 47.7 | 5.0 | ug/kg | 50.0 | | 95 | 68-119 | | | |
| n-Propylbenzene | 46.8 | 5.0 | ug/kg | 50.0 | | 94 | 64-120 | | | |
| o-Dichlorobenzene | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 77-117 | | | |
| o-Xylene | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 77-126 | | | |
| p-Dichlorobenzene | 47.3 | 5.0 | ug/kg | 50.0 | | 95 | 76-119 | | | |
| p-Isopropyltoluene | 47.6 | 5.0 | ug/kg | 50.0 | | 95 | 70-123 | | | |
| sec-Butylbenzene | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 67-120 | | | |
| Styrene | 47.8 | 5.0 | ug/kg | 50.0 | | 96 | 84-125 | | | |
| tert-Butylbenzene | 46.2 | 5.0 | ug/kg | 50.0 | | 92 | 70-119 | | | |
| Tetrachloroethene | 47.0 | 5.0 | ug/kg | 50.0 | | 94 | 80-129 | | | |
| Toluene | 45.3 | 5.0 | ug/kg | 50.0 | | 91 | 81-126 | | | |
| trans-1,2-Dichloroethene | 47.7 | 5.0 | ug/kg | 50.0 | | 95 | 82-123 | | | |
| trans-1,3-Dichloropropene | 53.0 | 5.0 | ug/kg | 50.0 | | 106 | 81-131 | | | |
| Trichloroethene | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 82-118 | | | |
| Trichlorofluoromethane | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 72-129 | | | |
| Vinyl chloride | 47.6 | 5.0 | ug/kg | 50.0 | | 95 | 63-130 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *50.9* | | *ug/kg* | *50.0* | | *102* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *50.4* | | *ug/kg* | *50.0* | | *101* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *50.7* | | *ug/kg* | *50.0* | | *101* | *84-120* | | | |
| *Surr: Toluene-d8* | *50.2* | | *ug/kg* | *50.0* | | *100* | *82-120* | | | |
| **LCS Dup (W5J1037-BSD1)** | | | | Analyzed: 10/20/15 13:08 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 51.1 | 5.0 | ug/kg | 50.0 | | 102 | 81-120 | 8 | 25 | |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS Dup (W5J1037-BSD1)** | | | | Analyzed: 10/20/15 13:08 | | | | | | |
| 1,1,1-Trichloroethane | 53.6 | 5.0 | ug/kg | 50.0 | | 107 | 78-125 | 6 | 25 | |
| 1,1,2,2-Tetrachloroethane | 50.2 | 5.0 | ug/kg | 50.0 | | 100 | 67-115 | 2 | 25 | |
| 1,1,2-Trichloroethane | 48.3 | 5.0 | ug/kg | 50.0 | | 97 | 85-121 | 2 | 25 | |
| 1,1-Dichloroethane | 47.1 | 5.0 | ug/kg | 50.0 | | 94 | 84-118 | 2 | 25 | |
| 1,1-Dichloroethene | 46.2 | 5.0 | ug/kg | 50.0 | | 92 | 80-123 | 1 | 25 | |
| 1,1-Dichloropropene | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 79-128 | 2 | 25 | |
| 1,2,3-Trichlorobenzene | 50.9 | 5.0 | ug/kg | 50.0 | | 102 | 36-201 | 3 | 25 | |
| 1,2,3-Trichloropropane | 48.6 | 5.0 | ug/kg | 50.0 | | 97 | 65-115 | 0.4 | 25 | |
| 1,2,4-Trichlorobenzene | 52.1 | 5.0 | ug/kg | 50.0 | | 104 | 69-143 | 4 | 25 | |
| 1,2,4-Trimethylbenzene | 47.0 | 5.0 | ug/kg | 50.0 | | 94 | 70-119 | 1 | 25 | |
| 1,2-Dibromo-3-chloropropane | 53.5 | 5.0 | ug/kg | 50.0 | | 107 | 62-140 | 11 | 25 | |
| 1,2-Dibromoethane (EDB) | 53.6 | 5.0 | ug/kg | 50.0 | | 107 | 86-125 | 3 | 25 | |
| 1,2-Dichloroethane | 46.3 | 5.0 | ug/kg | 50.0 | | 93 | 74-123 | 2 | 25 | |
| 1,2-Dichloropropane | 49.0 | 5.0 | ug/kg | 50.0 | | 98 | 83-122 | 0.9 | 25 | |
| 1,3,5-Trimethylbenzene | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 66-122 | 0.5 | 25 | |
| 1,3-Dichloropropane | 47.8 | 5.0 | ug/kg | 50.0 | | 96 | 85-122 | 2 | 25 | |
| 2,2-Dichloropropane | 60.8 | 5.0 | ug/kg | 50.0 | | 122 | 78-124 | 6 | 25 | |
| 2-Butanone | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 65-139 | 7 | 25 | |
| 2-Chloroethyl vinyl ether | 46.4 | 5.0 | ug/kg | 50.0 | | 93 | 62-134 | 2 | 25 | |
| 2-Chlorotoluene | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 65-118 | 0.9 | 25 | |
| 2-Hexanone | 50.7 | 5.0 | ug/kg | 50.0 | | 101 | 72-138 | 5 | 25 | |
| 4-Chlorotoluene | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 71-116 | 1 | 25 | |
| 4-Methyl-2-pentanone | 47.0 | 5.0 | ug/kg | 50.0 | | 94 | 70-133 | 4 | 25 | |
| Acetone | 44.9 | 5.0 | ug/kg | 50.0 | | 90 | 57-138 | 6 | 25 | |
| Acrolein | 32.5 | 5.0 | ug/kg | 50.0 | | 65 | 57-139 | 14 | 25 | |
| Acrylonitrile | 44.5 | 5.0 | ug/kg | 50.0 | | 89 | 78-124 | 2 | 25 | |
| Benzene | 46.1 | 5.0 | ug/kg | 50.0 | | 92 | 83-121 | 2 | 25 | |
| Bromobenzene | 47.0 | 5.0 | ug/kg | 50.0 | | 94 | 67-115 | 0.9 | 25 | |
| Bromochloromethane | 49.0 | 5.0 | ug/kg | 50.0 | | 98 | 82-117 | 2 | 25 | |
| Bromodichloromethane | 50.6 | 5.0 | ug/kg | 50.0 | | 101 | 78-122 | 3 | 25 | |
| Bromoform | 50.2 | 5.0 | ug/kg | 50.0 | | 100 | 83-125 | 5 | 25 | |
| Bromomethane | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 58-133 | 2 | 25 | |
| Carbon tetrachloride | 50.2 | 5.0 | ug/kg | 50.0 | | 100 | 79-126 | 8 | 25 | |
| Chlorobenzene | 45.8 | 5.0 | ug/kg | 50.0 | | 92 | 84-118 | 1 | 25 | |
| Chloroethane | 46.3 | 5.0 | ug/kg | 50.0 | | 93 | 58-135 | 0.6 | 25 | |
| Chloroform | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 80-123 | 2 | 25 | |
| Chloromethane | 45.5 | 5.0 | ug/kg | 50.0 | | 91 | 58-128 | 0.5 | 25 | |
| cis-1,2-Dichloroethene | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 83-120 | 3 | 25 | |
| cis-1,3-Dichloropropene | 55.0 | 5.0 | ug/kg | 50.0 | | 110 | 88-123 | 5 | 25 | |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS Dup (W5J1037-BSD1)** | | | | Analyzed: 10/20/15 13:08 | | | | | | |
| Dibromochloromethane | 51.1 | 5.0 | ug/kg | 50.0 | | 102 | 83-124 | 6 | 25 | |
| Dibromomethane | 47.3 | 5.0 | ug/kg | 50.0 | | 95 | 84-123 | 2 | 25 | |
| Dichlorodifluoromethane (Freon 12) | 46.9 | 5.0 | ug/kg | 50.0 | | 94 | 67-126 | 2 | 25 | |
| Ethylbenzene | 45.9 | 5.0 | ug/kg | 50.0 | | 92 | 80-120 | 2 | 25 | |
| Hexachlorobutadiene | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 70-130 | 0.9 | 25 | |
| Isopropylbenzene | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 66-122 | 0.2 | 25 | |
| m,p-Xylene | 45.7 | 5.0 | ug/kg | 50.0 | | 91 | 78-120 | 2 | 25 | |
| m-Dichlorobenzene | 47.4 | 5.0 | ug/kg | 50.0 | | 95 | 75-119 | 0.4 | 25 | |
| Methyl tert-butyl ether (MTBE) | 66.4 | 5.0 | ug/kg | 50.0 | | 133 | 83-122 | 0.08 | 25 | Q-ME |
| Methylene chloride | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 76-118 | 2 | 25 | |
| Naphthalene | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 42-190 | 3 | 25 | |
| n-Butylbenzene | 47.1 | 5.0 | ug/kg | 50.0 | | 94 | 68-119 | 1 | 25 | |
| n-Propylbenzene | 47.1 | 5.0 | ug/kg | 50.0 | | 94 | 64-120 | 0.6 | 25 | |
| o-Dichlorobenzene | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 77-117 | 0.5 | 25 | |
| o-Xylene | 46.4 | 5.0 | ug/kg | 50.0 | | 93 | 77-126 | 2 | 25 | |
| p-Dichlorobenzene | 47.0 | 5.0 | ug/kg | 50.0 | | 94 | 76-119 | 0.7 | 25 | |
| p-Isopropyltoluene | 47.3 | 5.0 | ug/kg | 50.0 | | 95 | 70-123 | 0.5 | 25 | |
| sec-Butylbenzene | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 67-120 | 0.3 | 25 | |
| Styrene | 46.9 | 5.0 | ug/kg | 50.0 | | 94 | 84-125 | 2 | 25 | |
| tert-Butylbenzene | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 70-119 | 0.6 | 25 | |
| Tetrachloroethene | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 80-129 | 0.8 | 25 | |
| Toluene | 45.0 | 5.0 | ug/kg | 50.0 | | 90 | 81-126 | 0.6 | 25 | |
| trans-1,2-Dichloroethene | 46.2 | 5.0 | ug/kg | 50.0 | | 92 | 82-123 | 3 | 25 | |
| trans-1,3-Dichloropropene | 56.2 | 5.0 | ug/kg | 50.0 | | 112 | 81-131 | 6 | 25 | |
| Trichloroethene | 46.4 | 5.0 | ug/kg | 50.0 | | 93 | 82-118 | 2 | 25 | |
| Trichlorofluoromethane | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 72-129 | 1 | 25 | |
| Vinyl chloride | 47.1 | 5.0 | ug/kg | 50.0 | | 94 | 63-130 | 1 | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *50.0* | | *ug/kg* | *50.0* | | *100* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *50.0* | | *ug/kg* | *50.0* | | *100* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *50.3* | | *ug/kg* | *50.0* | | *101* | *84-120* | | | |
| *Surr: Toluene-d8* | *50.2* | | *ug/kg* | *50.0* | | *100* | *82-120* | | | |
| **Duplicate (W5J1037-DUP1)** | | **Source: 5I25014-01** | | Analyzed: 10/20/15 17:21 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP1)** | **Source: 5I25014-01** | | | Analyzed: 10/20/15 17:21 | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acetone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP1)** | **Source: 5I25014-01** | | | Analyzed: 10/20/15 17:21 | | | | | | |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *247* | | *ug/kg* | *242* | | *102* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *236* | | *ug/kg* | *242* | | *97* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *239* | | *ug/kg* | *242* | | *99* | *84-120* | | | |
| *Surr: Toluene-d8* | *241* | | *ug/kg* | *242* | | *99* | *82-120* | | | |
| **Duplicate (W5J1037-DUP2)** | **Source: 5I25014-02** | | | Analyzed: 10/20/15 18:24 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2-Trichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 25 | ug/kg | | ND | | | NR | 25 | |



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**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP2)** | **Source: 5I25014-02** | | | Analyzed: 10/20/15 18:24 | | | | | | |
| 1,2-Dichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,3,5-Trimethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2-Butanone | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2-Chloroethyl vinyl ether | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2-Chlorotoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Acetone | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Acrolein | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromodichloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromoform | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Chloroform | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Chloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Ethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| m,p-Xylene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| m-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Naphthalene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP2)** | **Source: 5I25014-02** | | | Analyzed: 10/20/15 18:24 | | | | | | |
| n-Propylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| o-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| o-Xylene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| sec-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Styrene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| tert-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| trans-1,3-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Trichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *250* | | *ug/kg* | *248* | | *101* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *243* | | *ug/kg* | *248* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *240* | | *ug/kg* | *248* | | *97* | *84-120* | | | |
| *Surr: Toluene-d8* | *250* | | *ug/kg* | *248* | | *101* | *82-120* | | | |
| **Duplicate (W5J1037-DUP3)** | **Source: 5I25014-03** | | | Analyzed: 10/20/15 19:27 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP3)** | **Source: 5I25014-03** | | | Analyzed: 10/20/15 19:27 | | | | | | |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acetone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |



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**Date Received:** 09/25/15 11:34
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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP3)** | **Source: 5I25014-03** | | | Analyzed: 10/20/15 19:27 | | | | | | |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *248* | | *ug/kg* | *243* | | *102* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *238* | | *ug/kg* | *243* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *237* | | *ug/kg* | *243* | | *98* | *84-120* | | | |
| *Surr: Toluene-d8* | *241* | | *ug/kg* | *243* | | *99* | *82-120* | | | |
| **Duplicate (W5J1037-DUP4)** | **Source: 5J02045-01** | | | Analyzed: 10/20/15 20:30 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acetone | ND | 24 | ug/kg | | ND | | | NR | 25 | |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP4)** | **Source: 5J02045-01** | | | Analyzed: 10/20/15 20:30 | | | | | | |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |



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**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP4)** | **Source: 5J02045-01** | | | Analyzed: 10/20/15 20:30 | | | | | | |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *233* | | *ug/kg* | *240* | | *97* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *236* | | *ug/kg* | *240* | | *99* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *231* | | *ug/kg* | *240* | | *96* | *84-120* | | | |
| *Surr: Toluene-d8* | *241* | | *ug/kg* | *240* | | *101* | *82-120* | | | |
| **Duplicate (W5J1037-DUP5)** | **Source: 5J02045-02** | | | Analyzed: 10/20/15 21:33 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2-Trichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,3,5-Trimethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2-Butanone | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2-Chloroethyl vinyl ether | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2-Chlorotoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Acetone | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Acrolein | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromodichloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP5)** | **Source: 5J02045-02** | | | Analyzed: 10/20/15 21:33 | | | | | | |
| Bromoform | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Chloroform | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Chloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Ethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| m,p-Xylene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| m-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Naphthalene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| n-Propylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| o-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| o-Xylene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| sec-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Styrene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| tert-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| trans-1,3-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Trichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *250* | | *ug/kg* | *247* | | *101* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *242* | | *ug/kg* | *247* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *237* | | *ug/kg* | *247* | | *96* | *84-120* | | | |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP5)** | | **Source: 5J02045-02** | | Analyzed: 10/20/15 21:33 | | | | | | |
| *Surr: Toluene-d8* | *247* | | *ug/kg* | *247* | | *100* | *82-120* | | | |
| **Duplicate (W5J1037-DUP6)** | | **Source: 5J02045-03** | | Analyzed: 10/20/15 22:36 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acetone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP6)** | **Source: 5J02045-03** | | | Analyzed: 10/20/15 22:36 | | | | | | |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *239* | | *ug/kg* | *237* | | *101* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *232* | | *ug/kg* | *237* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *229* | | *ug/kg* | *237* | | *97* | *84-120* | | | |
| *Surr: Toluene-d8* | *235* | | *ug/kg* | *237* | | *99* | *82-120* | | | |
| **Duplicate (W5J1037-DUP7)** | **Source: 5J02045-04** | | | Analyzed: 10/20/15 23:39 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP7)** | **Source: 5J02045-04** | | | Analyzed: 10/20/15 23:39 | | | | | | |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acetone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP7)** | **Source: 5J02045-04** | | | Analyzed: 10/20/15 23:39 | | | | | | |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *247* | | *ug/kg* | *241* | | *102* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *237* | | *ug/kg* | *241* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *232* | | *ug/kg* | *241* | | *96* | *84-120* | | | |
| *Surr: Toluene-d8* | *242* | | *ug/kg* | *241* | | *101* | *82-120* | | | |
| **Matrix Spike (W5J1037-MS1)** | **Source: 5I25014-01** | | | Analyzed: 10/21/15 00:11 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 184 | 25 | ug/kg | 245 | ND | 75 | 50-150 | | | |
| 1,1,1-Trichloroethane | 205 | 25 | ug/kg | 245 | ND | 83 | 50-150 | | | |
| 1,1,2,2-Tetrachloroethane | 202 | 25 | ug/kg | 245 | ND | 82 | 50-150 | | | |
| 1,1,2-Trichloroethane | 213 | 25 | ug/kg | 245 | ND | 87 | 50-150 | | | |
| 1,1-Dichloroethane | 222 | 25 | ug/kg | 245 | ND | 91 | 50-150 | | | |
| 1,1-Dichloroethene | 223 | 25 | ug/kg | 245 | ND | 91 | 38-139 | | | |
| 1,1-Dichloropropene | 224 | 25 | ug/kg | 245 | ND | 91 | 50-150 | | | |
| 1,2,3-Trichlorobenzene | 225 | 25 | ug/kg | 245 | ND | 92 | 50-150 | | | |
| 1,2,3-Trichloropropane | 219 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| 1,2,4-Trichlorobenzene | 234 | 25 | ug/kg | 245 | ND | 95 | 50-150 | | | |



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**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J1037-MS1)** | **Source: 5I25014-01** | | | Analyzed: 10/21/15 00:11 | | | | | | |
| 1,2,4-Trimethylbenzene | 227 | 25 | ug/kg | 245 | ND | 93 | 50-150 | | | |
| 1,2-Dibromo-3-chloropropane | 167 | 25 | ug/kg | 245 | ND | 68 | 50-150 | | | |
| 1,2-Dibromoethane (EDB) | 197 | 25 | ug/kg | 245 | ND | 80 | 50-150 | | | |
| 1,2-Dichloroethane | 222 | 25 | ug/kg | 245 | ND | 91 | 50-150 | | | |
| 1,2-Dichloropropane | 222 | 25 | ug/kg | 245 | ND | 91 | 50-150 | | | |
| 1,3,5-Trimethylbenzene | 227 | 25 | ug/kg | 245 | ND | 92 | 50-150 | | | |
| 1,3-Dichloropropane | 219 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| 2,2-Dichloropropane | 228 | 25 | ug/kg | 245 | ND | 93 | 50-150 | | | |
| 2-Butanone | 234 | 25 | ug/kg | 245 | ND | 95 | 50-150 | | | |
| 2-Chloroethyl vinyl ether | 195 | 25 | ug/kg | 245 | ND | 80 | 50-150 | | | |
| 2-Chlorotoluene | 225 | 25 | ug/kg | 245 | ND | 92 | 50-150 | | | |
| 2-Hexanone | 204 | 25 | ug/kg | 245 | ND | 83 | 50-150 | | | |
| 4-Chlorotoluene | 224 | 25 | ug/kg | 245 | ND | 91 | 50-150 | | | |
| 4-Methyl-2-pentanone | 192 | 25 | ug/kg | 245 | ND | 78 | 50-150 | | | |
| Acetone | 198 | 25 | ug/kg | 245 | ND | 81 | 50-150 | | | |
| Acrolein | 93.3 | 25 | ug/kg | 245 | ND | 38 | 50-150 | | | |
| Acrylonitrile | 206 | 25 | ug/kg | 245 | ND | 84 | 50-150 | | | |
| Benzene | 222 | 25 | ug/kg | 245 | ND | 90 | 30-134 | | | |
| Bromobenzene | 219 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| Bromochloromethane | 236 | 25 | ug/kg | 245 | ND | 96 | 50-150 | | | |
| Bromodichloromethane | 195 | 25 | ug/kg | 245 | ND | 80 | 50-150 | | | |
| Bromoform | 178 | 25 | ug/kg | 245 | ND | 73 | 50-150 | | | |
| Bromomethane | 60.2 | 25 | ug/kg | 245 | ND | 25 | 50-150 | | | |
| Carbon tetrachloride | 184 | 25 | ug/kg | 245 | ND | 75 | 50-150 | | | |
| Chlorobenzene | 217 | 25 | ug/kg | 245 | ND | 88 | 3-135 | | | |
| Chloroethane | 215 | 25 | ug/kg | 245 | ND | 88 | 50-150 | | | |
| Chloroform | 219 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| Chloromethane | 207 | 25 | ug/kg | 245 | ND | 84 | 50-150 | | | |
| cis-1,2-Dichloroethene | 222 | 25 | ug/kg | 245 | ND | 91 | 50-150 | | | |
| cis-1,3-Dichloropropene | 208 | 25 | ug/kg | 245 | ND | 85 | 50-150 | | | |
| Dibromochloromethane | 181 | 25 | ug/kg | 245 | ND | 74 | 50-150 | | | |
| Dibromomethane | 218 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| Dichlorodifluoromethane (Freon 12) | 215 | 25 | ug/kg | 245 | ND | 88 | 50-150 | | | |
| Ethylbenzene | 220 | 25 | ug/kg | 245 | ND | 90 | 50-150 | | | |
| Hexachlorobutadiene | 201 | 25 | ug/kg | 245 | ND | 82 | 50-150 | | | |
| Isopropylbenzene | 227 | 25 | ug/kg | 245 | ND | 92 | 50-150 | | | |
| m,p-Xylene | 217 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| m-Dichlorobenzene | 219 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| Methyl tert-butyl ether (MTBE) | 298 | 25 | ug/kg | 245 | ND | 122 | 50-150 | | | |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J1037-MS1)** | **Source: 5I25014-01** | | | Analyzed: 10/21/15 00:11 | | | | | | |
| Methylene chloride | 221 | 25 | ug/kg | 245 | ND | 90 | 50-150 | | | |
| Naphthalene | 213 | 25 | ug/kg | 245 | ND | 87 | 50-150 | | | |
| n-Butylbenzene | 225 | 25 | ug/kg | 245 | ND | 92 | 50-150 | | | |
| n-Propylbenzene | 227 | 25 | ug/kg | 245 | ND | 92 | 50-150 | | | |
| o-Dichlorobenzene | 217 | 25 | ug/kg | 245 | ND | 88 | 50-150 | | | |
| o-Xylene | 220 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| p-Dichlorobenzene | 218 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| p-Isopropyltoluene | 224 | 25 | ug/kg | 245 | ND | 91 | 50-150 | | | |
| sec-Butylbenzene | 227 | 25 | ug/kg | 245 | ND | 93 | 50-150 | | | |
| Styrene | 218 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| tert-Butylbenzene | 224 | 25 | ug/kg | 245 | ND | 91 | 50-150 | | | |
| Tetrachloroethene | 217 | 25 | ug/kg | 245 | ND | 88 | 50-150 | | | |
| Toluene | 209 | 25 | ug/kg | 245 | ND | 85 | 11-140 | | | |
| trans-1,2-Dichloroethene | 225 | 25 | ug/kg | 245 | ND | 92 | 50-150 | | | |
| trans-1,3-Dichloropropene | 203 | 25 | ug/kg | 245 | ND | 83 | 50-150 | | | |
| Trichloroethene | 220 | 25 | ug/kg | 245 | ND | 90 | 10-144 | | | |
| Trichlorofluoromethane | 218 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| Vinyl chloride | 210 | 25 | ug/kg | 245 | ND | 86 | 50-150 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *245* | | *ug/kg* | *245* | | *100* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *241* | | *ug/kg* | *245* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *241* | | *ug/kg* | *245* | | *98* | *84-120* | | | |
| *Surr: Toluene-d8* | *244* | | *ug/kg* | *245* | | *99* | *82-120* | | | |
| **Matrix Spike (W5J1037-MS2)** | **Source: 5J02045-01** | | | Analyzed: 10/21/15 01:14 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 228 | 24 | ug/kg | 239 | ND | 95 | 50-150 | | | |
| 1,1,1-Trichloroethane | 247 | 24 | ug/kg | 239 | ND | 103 | 50-150 | | | |
| 1,1,2,2-Tetrachloroethane | 214 | 24 | ug/kg | 239 | ND | 89 | 50-150 | | | |
| 1,1,2-Trichloroethane | 219 | 24 | ug/kg | 239 | ND | 91 | 50-150 | | | |
| 1,1-Dichloroethane | 227 | 24 | ug/kg | 239 | ND | 95 | 50-150 | | | |
| 1,1-Dichloroethene | 221 | 24 | ug/kg | 239 | ND | 92 | 38-139 | | | |
| 1,1-Dichloropropene | 223 | 24 | ug/kg | 239 | ND | 93 | 50-150 | | | |
| 1,2,3-Trichlorobenzene | 230 | 24 | ug/kg | 239 | ND | 96 | 50-150 | | | |
| 1,2,3-Trichloropropane | 221 | 24 | ug/kg | 239 | ND | 92 | 50-150 | | | |
| 1,2,4-Trichlorobenzene | 231 | 24 | ug/kg | 239 | ND | 97 | 50-150 | | | |
| 1,2,4-Trimethylbenzene | 226 | 24 | ug/kg | 239 | ND | 94 | 50-150 | | | |
| 1,2-Dibromo-3-chloropropane | 215 | 24 | ug/kg | 239 | ND | 90 | 50-150 | | | |
| 1,2-Dibromoethane (EDB) | 241 | 24 | ug/kg | 239 | ND | 101 | 50-150 | | | |
| 1,2-Dichloroethane | 222 | 24 | ug/kg | 239 | ND | 93 | 50-150 | | | |
| 1,2-Dichloropropane | 231 | 24 | ug/kg | 239 | ND | 97 | 50-150 | | | |
| 1,3,5-Trimethylbenzene | 224 | 24 | ug/kg | 239 | ND | 94 | 50-150 | | | |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J1037-MS2)** | **Source: 5J02045-01** | | | Analyzed: 10/21/15 01:14 | | | | | | |
| 1,3-Dichloropropane | 220 | 24 | ug/kg | 239 | ND | 92 | 50-150 | | | |
| 2,2-Dichloropropane | 289 | 24 | ug/kg | 239 | ND | 120 | 50-150 | | | |
| 2-Butanone | 288 | 24 | ug/kg | 239 | ND | 120 | 50-150 | | | |
| 2-Chloroethyl vinyl ether | 204 | 24 | ug/kg | 239 | ND | 85 | 50-150 | | | |
| 2-Chlorotoluene | 224 | 24 | ug/kg | 239 | ND | 94 | 50-150 | | | |
| 2-Hexanone | 210 | 24 | ug/kg | 239 | ND | 88 | 50-150 | | | |
| 4-Chlorotoluene | 223 | 24 | ug/kg | 239 | ND | 93 | 50-150 | | | |
| 4-Methyl-2-pentanone | 197 | 24 | ug/kg | 239 | ND | 82 | 50-150 | | | |
| Acetone | 193 | 24 | ug/kg | 239 | ND | 81 | 50-150 | | | |
| Acrolein | 138 | 24 | ug/kg | 239 | ND | 58 | 50-150 | | | |
| Acrylonitrile | 198 | 24 | ug/kg | 239 | ND | 83 | 50-150 | | | |
| Benzene | 222 | 24 | ug/kg | 239 | ND | 93 | 30-134 | | | |
| Bromobenzene | 221 | 24 | ug/kg | 239 | ND | 92 | 50-150 | | | |
| Bromochloromethane | 238 | 24 | ug/kg | 239 | ND | 99 | 50-150 | | | |
| Bromodichloromethane | 228 | 24 | ug/kg | 239 | ND | 95 | 50-150 | | | |
| Bromoform | 213 | 24 | ug/kg | 239 | ND | 89 | 50-150 | | | |
| Bromomethane | 128 | 24 | ug/kg | 239 | ND | 54 | 50-150 | | | |
| Carbon tetrachloride | 229 | 24 | ug/kg | 239 | ND | 95 | 50-150 | | | |
| Chlorobenzene | 221 | 24 | ug/kg | 239 | ND | 92 | 3-135 | | | |
| Chloroethane | 192 | 24 | ug/kg | 239 | ND | 80 | 50-150 | | | |
| Chloroform | 224 | 24 | ug/kg | 239 | ND | 94 | 50-150 | | | |
| Chloromethane | 210 | 24 | ug/kg | 239 | ND | 88 | 50-150 | | | |
| cis-1,2-Dichloroethene | 228 | 24 | ug/kg | 239 | ND | 95 | 50-150 | | | |
| cis-1,3-Dichloropropene | 250 | 24 | ug/kg | 239 | ND | 104 | 50-150 | | | |
| Dibromochloromethane | 217 | 24 | ug/kg | 239 | ND | 91 | 50-150 | | | |
| Dibromomethane | 220 | 24 | ug/kg | 239 | ND | 92 | 50-150 | | | |
| Dichlorodifluoromethane (Freon 12) | 218 | 24 | ug/kg | 239 | ND | 91 | 50-150 | | | |
| Ethylbenzene | 223 | 24 | ug/kg | 239 | ND | 93 | 50-150 | | | |
| Hexachlorobutadiene | 216 | 24 | ug/kg | 239 | ND | 90 | 50-150 | | | |
| Isopropylbenzene | 228 | 24 | ug/kg | 239 | ND | 95 | 50-150 | | | |
| m,p-Xylene | 220 | 24 | ug/kg | 239 | ND | 92 | 50-150 | | | |
| m-Dichlorobenzene | 218 | 24 | ug/kg | 239 | ND | 91 | 50-150 | | | |
| Methyl tert-butyl ether (MTBE) | 327 | 24 | ug/kg | 239 | ND | 137 | 50-150 | | | |
| Methylene chloride | 223 | 24 | ug/kg | 239 | ND | 93 | 50-150 | | | |
| Naphthalene | 219 | 24 | ug/kg | 239 | ND | 92 | 50-150 | | | |
| n-Butylbenzene | 223 | 24 | ug/kg | 239 | ND | 93 | 50-150 | | | |
| n-Propylbenzene | 226 | 24 | ug/kg | 239 | ND | 94 | 50-150 | | | |
| o-Dichlorobenzene | 218 | 24 | ug/kg | 239 | ND | 91 | 50-150 | | | |
| o-Xylene | 225 | 24 | ug/kg | 239 | ND | 94 | 50-150 | | | |



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**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J1037-MS2)** | **Source: 5J02045-01** | | | Analyzed: 10/21/15 01:14 | | | | | | |
| p-Dichlorobenzene | 216 | 24 | ug/kg | 239 | ND | 90 | 50-150 | | | |
| p-Isopropyltoluene | 226 | 24 | ug/kg | 239 | ND | 94 | 50-150 | | | |
| sec-Butylbenzene | 227 | 24 | ug/kg | 239 | ND | 95 | 50-150 | | | |
| Styrene | 223 | 24 | ug/kg | 239 | ND | 93 | 50-150 | | | |
| tert-Butylbenzene | 228 | 24 | ug/kg | 239 | ND | 95 | 50-150 | | | |
| Tetrachloroethene | 218 | 24 | ug/kg | 239 | ND | 91 | 50-150 | | | |
| Toluene | 211 | 24 | ug/kg | 239 | ND | 88 | 11-140 | | | |
| trans-1,2-Dichloroethene | 225 | 24 | ug/kg | 239 | ND | 94 | 50-150 | | | |
| trans-1,3-Dichloropropene | 256 | 24 | ug/kg | 239 | ND | 107 | 50-150 | | | |
| Trichloroethene | 222 | 24 | ug/kg | 239 | ND | 93 | 10-144 | | | |
| Trichlorofluoromethane | 223 | 24 | ug/kg | 239 | ND | 93 | 50-150 | | | |
| Vinyl chloride | 214 | 24 | ug/kg | 239 | ND | 89 | 50-150 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *237* | | *ug/kg* | *239* | | *99* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *238* | | *ug/kg* | *239* | | *99* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *240* | | *ug/kg* | *239* | | *100* | *84-120* | | | |
| *Surr: Toluene-d8* | *237* | | *ug/kg* | *239* | | *99* | *82-120* | | | |
| **Matrix Spike Dup (W5J1037-MSD1)** | **Source: 5I25014-01** | | | Analyzed: 10/21/15 00:42 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 217 | 24 | ug/kg | 241 | ND | 90 | 50-150 | 16 | 25 | |
| 1,1,1-Trichloroethane | 246 | 24 | ug/kg | 241 | ND | 102 | 50-150 | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | 227 | 24 | ug/kg | 241 | ND | 94 | 50-150 | NR | 25 | |
| 1,1,2-Trichloroethane | 231 | 24 | ug/kg | 241 | ND | 96 | 50-150 | NR | 25 | |
| 1,1-Dichloroethane | 239 | 24 | ug/kg | 241 | ND | 100 | 50-150 | 7 | 25 | |
| 1,1-Dichloroethene | 240 | 24 | ug/kg | 241 | ND | 100 | 38-139 | NR | 25 | |
| 1,1-Dichloropropene | 240 | 24 | ug/kg | 241 | ND | 100 | 50-150 | NR | 25 | |
| 1,2,3-Trichlorobenzene | 226 | 24 | ug/kg | 241 | ND | 94 | 50-150 | NR | 25 | |
| 1,2,3-Trichloropropane | 234 | 24 | ug/kg | 241 | ND | 97 | 50-150 | NR | 25 | |
| 1,2,4-Trichlorobenzene | 224 | 24 | ug/kg | 241 | ND | 93 | 50-150 | 4 | 25 | |
| 1,2,4-Trimethylbenzene | 231 | 24 | ug/kg | 241 | ND | 96 | 50-150 | 2 | 25 | |
| 1,2-Dibromo-3-chloropropane | 210 | 24 | ug/kg | 241 | ND | 87 | 50-150 | NR | 25 | |
| 1,2-Dibromoethane (EDB) | 239 | 24 | ug/kg | 241 | ND | 99 | 50-150 | NR | 25 | |
| 1,2-Dichloroethane | 236 | 24 | ug/kg | 241 | ND | 98 | 50-150 | NR | 25 | |
| 1,2-Dichloropropane | 241 | 24 | ug/kg | 241 | ND | 100 | 50-150 | NR | 25 | |
| 1,3,5-Trimethylbenzene | 231 | 24 | ug/kg | 241 | ND | 96 | 50-150 | 2 | 25 | |
| 1,3-Dichloropropane | 236 | 24 | ug/kg | 241 | ND | 98 | 50-150 | 8 | 25 | |
| 2,2-Dichloropropane | 281 | 24 | ug/kg | 241 | ND | 117 | 50-150 | 21 | 25 | |
| 2-Butanone | 247 | 24 | ug/kg | 241 | ND | 103 | 50-150 | NR | 25 | |
| 2-Chloroethyl vinyl ether | 214 | 24 | ug/kg | 241 | ND | 89 | 50-150 | NR | 25 | |
| 2-Chlorotoluene | 232 | 24 | ug/kg | 241 | ND | 96 | 50-150 | 3 | 25 | |
| 2-Hexanone | 232 | 24 | ug/kg | 241 | ND | 96 | 50-150 | NR | 25 | |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5J1037-MSD1)** | **Source: 5I25014-01** | | | Analyzed: 10/21/15 00:42 | | | | | | |
| 4-Chlorotoluene | 224 | 24 | ug/kg | 241 | ND | 93 | 50-150 | 0.2 | 25 | |
| 4-Methyl-2-pentanone | 220 | 24 | ug/kg | 241 | ND | 91 | 50-150 | NR | 25 | |
| Acetone | 218 | 24 | ug/kg | 241 | ND | 91 | 50-150 | NR | 25 | |
| Acrolein | 98.7 | 24 | ug/kg | 241 | ND | 41 | 50-150 | NR | 25 | MS-05 |
| Acrylonitrile | 225 | 24 | ug/kg | 241 | ND | 93 | 50-150 | NR | 25 | |
| Benzene | 235 | 24 | ug/kg | 241 | ND | 98 | 30-134 | NR | 25 | |
| Bromobenzene | 224 | 24 | ug/kg | 241 | ND | 93 | 50-150 | 2 | 25 | |
| Bromochloromethane | 248 | 24 | ug/kg | 241 | ND | 103 | 50-150 | 5 | 25 | |
| Bromodichloromethane | 228 | 24 | ug/kg | 241 | ND | 95 | 50-150 | 15 | 25 | |
| Bromoform | 209 | 24 | ug/kg | 241 | ND | 87 | 50-150 | NR | 25 | |
| Bromomethane | 129 | 24 | ug/kg | 241 | ND | 54 | 50-150 | NR | 25 | MS-05 |
| Carbon tetrachloride | 224 | 24 | ug/kg | 241 | ND | 93 | 50-150 | NR | 25 | |
| Chlorobenzene | 227 | 24 | ug/kg | 241 | ND | 94 | 3-135 | 5 | 25 | |
| Chloroethane | 181 | 24 | ug/kg | 241 | ND | 75 | 50-150 | NR | 25 | |
| Chloroform | 234 | 24 | ug/kg | 241 | ND | 97 | 50-150 | NR | 25 | |
| Chloromethane | 226 | 24 | ug/kg | 241 | ND | 94 | 50-150 | 9 | 25 | |
| cis-1,2-Dichloroethene | 239 | 24 | ug/kg | 241 | ND | 99 | 50-150 | NR | 25 | |
| cis-1,3-Dichloropropene | 244 | 24 | ug/kg | 241 | ND | 101 | 50-150 | 16 | 25 | |
| Dibromochloromethane | 214 | 24 | ug/kg | 241 | ND | 89 | 50-150 | NR | 25 | |
| Dibromomethane | 235 | 24 | ug/kg | 241 | ND | 98 | 50-150 | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | 241 | 24 | ug/kg | 241 | ND | 100 | 50-150 | 11 | 25 | |
| Ethylbenzene | 231 | 24 | ug/kg | 241 | ND | 96 | 50-150 | 5 | 25 | |
| Hexachlorobutadiene | 212 | 24 | ug/kg | 241 | ND | 88 | 50-150 | NR | 25 | |
| Isopropylbenzene | 236 | 24 | ug/kg | 241 | ND | 98 | 50-150 | 4 | 25 | |
| m,p-Xylene | 228 | 24 | ug/kg | 241 | ND | 95 | 50-150 | NR | 25 | |
| m-Dichlorobenzene | 217 | 24 | ug/kg | 241 | ND | 90 | 50-150 | 0.8 | 25 | |
| Methyl tert-butyl ether (MTBE) | 334 | 24 | ug/kg | 241 | ND | 139 | 50-150 | 11 | 25 | |
| Methylene chloride | 234 | 24 | ug/kg | 241 | ND | 97 | 50-150 | 5 | 25 | |
| Naphthalene | 230 | 24 | ug/kg | 241 | ND | 95 | 50-150 | NR | 25 | |
| n-Butylbenzene | 224 | 24 | ug/kg | 241 | ND | 93 | 50-150 | 0.1 | 25 | |
| n-Propylbenzene | 232 | 24 | ug/kg | 241 | ND | 97 | 50-150 | 2 | 25 | |
| o-Dichlorobenzene | 220 | 24 | ug/kg | 241 | ND | 92 | 50-150 | 1 | 25 | |
| o-Xylene | 229 | 24 | ug/kg | 241 | ND | 95 | 50-150 | 4 | 25 | |
| p-Dichlorobenzene | 215 | 24 | ug/kg | 241 | ND | 90 | 50-150 | 1 | 25 | |
| p-Isopropyltoluene | 230 | 24 | ug/kg | 241 | ND | 96 | 50-150 | 3 | 25 | |
| sec-Butylbenzene | 236 | 24 | ug/kg | 241 | ND | 98 | 50-150 | 4 | 25 | |
| Styrene | 226 | 24 | ug/kg | 241 | ND | 94 | 50-150 | 4 | 25 | |
| tert-Butylbenzene | 237 | 24 | ug/kg | 241 | ND | 98 | 50-150 | 5 | 25 | |
| Tetrachloroethene | 231 | 24 | ug/kg | 241 | ND | 96 | 50-150 | NR | 25 | |



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**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5J1037-MSD1)** | **Source: 5I25014-01** | | | Analyzed: 10/21/15 00:42 | | | | | | |
| Toluene | 222 | 24 | ug/kg | 241 | ND | 92 | 11-140 | NR | 25 | |
| trans-1,2-Dichloroethene | 239 | 24 | ug/kg | 241 | ND | 99 | 50-150 | NR | 25 | |
| trans-1,3-Dichloropropene | 244 | 24 | ug/kg | 241 | ND | 101 | 50-150 | NR | 25 | |
| Trichloroethene | 237 | 24 | ug/kg | 241 | ND | 98 | 10-144 | NR | 25 | |
| Trichlorofluoromethane | 243 | 24 | ug/kg | 241 | ND | 101 | 50-150 | NR | 25 | |
| Vinyl chloride | 233 | 24 | ug/kg | 241 | ND | 97 | 50-150 | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *253* | | *ug/kg* | *241* | | *105* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *240* | | *ug/kg* | *241* | | *100* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *241* | | *ug/kg* | *241* | | *100* | *84-120* | | | |
| *Surr: Toluene-d8* | *239* | | *ug/kg* | *241* | | *99* | *82-120* | | | |
| **Matrix Spike Dup (W5J1037-MSD2)** | **Source: 5J02045-01** | | | Analyzed: 10/21/15 01:45 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 233 | 24 | ug/kg | 237 | ND | 98 | 50-150 | 2 | 25 | |
| 1,1,1-Trichloroethane | 258 | 24 | ug/kg | 237 | ND | 109 | 50-150 | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | 214 | 24 | ug/kg | 237 | ND | 90 | 50-150 | NR | 25 | |
| 1,1,2-Trichloroethane | 223 | 24 | ug/kg | 237 | ND | 94 | 50-150 | NR | 25 | |
| 1,1-Dichloroethane | 229 | 24 | ug/kg | 237 | ND | 97 | 50-150 | 1 | 25 | |
| 1,1-Dichloroethene | 223 | 24 | ug/kg | 237 | ND | 94 | 38-139 | NR | 25 | |
| 1,1-Dichloropropene | 228 | 24 | ug/kg | 237 | ND | 96 | 50-150 | NR | 25 | |
| 1,2,3-Trichlorobenzene | 228 | 24 | ug/kg | 237 | ND | 96 | 50-150 | NR | 25 | |
| 1,2,3-Trichloropropane | 220 | 24 | ug/kg | 237 | ND | 93 | 50-150 | NR | 25 | |
| 1,2,4-Trichlorobenzene | 227 | 24 | ug/kg | 237 | ND | 96 | 50-150 | 2 | 25 | |
| 1,2,4-Trimethylbenzene | 224 | 24 | ug/kg | 237 | ND | 94 | 50-150 | 1 | 25 | |
| 1,2-Dibromo-3-chloropropane | 222 | 24 | ug/kg | 237 | ND | 94 | 50-150 | NR | 25 | |
| 1,2-Dibromoethane (EDB) | 248 | 24 | ug/kg | 237 | ND | 105 | 50-150 | NR | 25 | |
| 1,2-Dichloroethane | 224 | 24 | ug/kg | 237 | ND | 94 | 50-150 | NR | 25 | |
| 1,2-Dichloropropane | 234 | 24 | ug/kg | 237 | ND | 99 | 50-150 | 1 | 25 | |
| 1,3,5-Trimethylbenzene | 224 | 24 | ug/kg | 237 | ND | 95 | 50-150 | 0.3 | 25 | |
| 1,3-Dichloropropane | 225 | 24 | ug/kg | 237 | ND | 95 | 50-150 | 3 | 25 | |
| 2,2-Dichloropropane | 309 | 24 | ug/kg | 237 | ND | 130 | 50-150 | 7 | 25 | |
| 2-Butanone | 298 | 24 | ug/kg | 237 | ND | 126 | 50-150 | NR | 25 | |
| 2-Chloroethyl vinyl ether | 201 | 24 | ug/kg | 237 | ND | 85 | 50-150 | NR | 25 | |
| 2-Chlorotoluene | 222 | 24 | ug/kg | 237 | ND | 94 | 50-150 | 0.8 | 25 | |
| 2-Hexanone | 218 | 24 | ug/kg | 237 | ND | 92 | 50-150 | NR | 25 | |
| 4-Chlorotoluene | 218 | 24 | ug/kg | 237 | ND | 92 | 50-150 | 2 | 25 | |
| 4-Methyl-2-pentanone | 205 | 24 | ug/kg | 237 | ND | 87 | 50-150 | NR | 25 | |
| Acetone | 208 | 24 | ug/kg | 237 | ND | 88 | 50-150 | NR | 25 | |
| Acrolein | 138 | 24 | ug/kg | 237 | ND | 58 | 50-150 | NR | 25 | |
| Acrylonitrile | 202 | 24 | ug/kg | 237 | ND | 85 | 50-150 | NR | 25 | |
| Benzene | 223 | 24 | ug/kg | 237 | ND | 94 | 30-134 | NR | 25 | |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5J1037-MSD2)** | **Source: 5J02045-01** | | | Analyzed: 10/21/15 01:45 | | | | | | |
| Bromobenzene | 219 | 24 | ug/kg | 237 | ND | 93 | 50-150 | 0.9 | 25 | |
| Bromochloromethane | 236 | 24 | ug/kg | 237 | ND | 100 | 50-150 | 0.5 | 25 | |
| Bromodichloromethane | 234 | 24 | ug/kg | 237 | ND | 99 | 50-150 | 3 | 25 | |
| Bromoform | 216 | 24 | ug/kg | 237 | ND | 91 | 50-150 | 1 | 25 | |
| Bromomethane | 63.4 | 24 | ug/kg | 237 | ND | 27 | 50-150 | NR | 25 | MS-05 |
| Carbon tetrachloride | 238 | 24 | ug/kg | 237 | ND | 100 | 50-150 | NR | 25 | |
| Chlorobenzene | 218 | 24 | ug/kg | 237 | ND | 92 | 3-135 | 1 | 25 | |
| Chloroethane | 220 | 24 | ug/kg | 237 | ND | 93 | 50-150 | NR | 25 | |
| Chloroform | 227 | 24 | ug/kg | 237 | ND | 96 | 50-150 | 1 | 25 | |
| Chloromethane | 212 | 24 | ug/kg | 237 | ND | 90 | 50-150 | 0.8 | 25 | |
| cis-1,2-Dichloroethene | 230 | 24 | ug/kg | 237 | ND | 97 | 50-150 | NR | 25 | |
| cis-1,3-Dichloropropene | 260 | 24 | ug/kg | 237 | ND | 110 | 50-150 | 4 | 25 | |
| Dibromochloromethane | 227 | 24 | ug/kg | 237 | ND | 96 | 50-150 | NR | 25 | |
| Dibromomethane | 221 | 24 | ug/kg | 237 | ND | 93 | 50-150 | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | 225 | 24 | ug/kg | 237 | ND | 95 | 50-150 | 3 | 25 | |
| Ethylbenzene | 221 | 24 | ug/kg | 237 | ND | 93 | 50-150 | 1 | 25 | |
| Hexachlorobutadiene | 217 | 24 | ug/kg | 237 | ND | 91 | 50-150 | NR | 25 | |
| Isopropylbenzene | 224 | 24 | ug/kg | 237 | ND | 95 | 50-150 | 2 | 25 | |
| m,p-Xylene | 217 | 24 | ug/kg | 237 | ND | 92 | 50-150 | NR | 25 | |
| m-Dichlorobenzene | 214 | 24 | ug/kg | 237 | ND | 91 | 50-150 | 2 | 25 | |
| Methyl tert-butyl ether (MTBE) | 336 | 24 | ug/kg | 237 | ND | 142 | 50-150 | 3 | 25 | |
| Methylene chloride | 226 | 24 | ug/kg | 237 | ND | 95 | 50-150 | 1 | 25 | |
| Naphthalene | 223 | 24 | ug/kg | 237 | ND | 94 | 50-150 | NR | 25 | |
| n-Butylbenzene | 219 | 24 | ug/kg | 237 | ND | 92 | 50-150 | 2 | 25 | |
| n-Propylbenzene | 225 | 24 | ug/kg | 237 | ND | 95 | 50-150 | 0.5 | 25 | |
| o-Dichlorobenzene | 215 | 24 | ug/kg | 237 | ND | 91 | 50-150 | 1 | 25 | |
| o-Xylene | 220 | 24 | ug/kg | 237 | ND | 93 | 50-150 | 2 | 25 | |
| p-Dichlorobenzene | 210 | 24 | ug/kg | 237 | ND | 89 | 50-150 | 3 | 25 | |
| p-Isopropyltoluene | 224 | 24 | ug/kg | 237 | ND | 95 | 50-150 | 0.8 | 25 | |
| sec-Butylbenzene | 227 | 24 | ug/kg | 237 | ND | 96 | 50-150 | 0.09 | 25 | |
| Styrene | 219 | 24 | ug/kg | 237 | ND | 92 | 50-150 | 2 | 25 | |
| tert-Butylbenzene | 229 | 24 | ug/kg | 237 | ND | 97 | 50-150 | 0.6 | 25 | |
| Tetrachloroethene | 220 | 24 | ug/kg | 237 | ND | 93 | 50-150 | NR | 25 | |
| Toluene | 215 | 24 | ug/kg | 237 | ND | 91 | 11-140 | NR | 25 | |
| trans-1,2-Dichloroethene | 225 | 24 | ug/kg | 237 | ND | 95 | 50-150 | NR | 25 | |
| trans-1,3-Dichloropropene | 264 | 24 | ug/kg | 237 | ND | 112 | 50-150 | NR | 25 | |
| Trichloroethene | 224 | 24 | ug/kg | 237 | ND | 95 | 10-144 | NR | 25 | |
| Trichlorofluoromethane | 224 | 24 | ug/kg | 237 | ND | 95 | 50-150 | NR | 25 | |
| Vinyl chloride | 219 | 24 | ug/kg | 237 | ND | 93 | 50-150 | NR | 25 | |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5J1037-MSD2)** | | **Source: 5J02045-01** | | Analyzed: 10/21/15 01:45 | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *236* | | *ug/kg* | *237* | | *100* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *232* | | *ug/kg* | *237* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *236* | | *ug/kg* | *237* | | *100* | *84-120* | | | |
| *Surr: Toluene-d8* | *237* | | *ug/kg* | *237* | | *100* | *82-120* | | | |

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5K0373-BLK1)** | | | | Analyzed: 11/06/15 01:09 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 2-Butanone | ND | 5.0 | ug/kg | | | | | | | |
| 2-Chloroethyl vinyl ether | ND | 5.0 | ug/kg | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/kg | | | | | | | |
| 2-Hexanone | ND | 5.0 | ug/kg | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/kg | | | | | | | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/kg | | | | | | | |
| Acetone | ND | 5.0 | ug/kg | | | | | | | |
| Acrolein | ND | 5.0 | ug/kg | | | | | | | |
| Acrylonitrile | ND | 5.0 | ug/kg | | | | | | | |
| Benzene | ND | 5.0 | ug/kg | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Bromodichloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Bromoform | ND | 5.0 | ug/kg | | | | | | | |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5K0373-BLK1)** | | | | Analyzed: 11/06/15 01:09 | | | | | | |
| Bromomethane | ND | 5.0 | ug/kg | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/kg | | | | | | | |
| Chlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Chloroethane | ND | 5.0 | ug/kg | | | | | | | |
| Chloroform | ND | 5.0 | ug/kg | | | | | | | |
| Chloromethane | ND | 5.0 | ug/kg | | | | | | | |
| cis-1,2-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| Dibromochloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Dibromomethane | ND | 5.0 | ug/kg | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 5.0 | ug/kg | | | | | | | |
| Ethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/kg | | | | | | | |
| Isopropylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| m,p-Xylene | ND | 5.0 | ug/kg | | | | | | | |
| m-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 5.0 | ug/kg | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/kg | | | | | | | |
| Naphthalene | ND | 5.0 | ug/kg | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| n-Propylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| o-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| o-Xylene | ND | 5.0 | ug/kg | | | | | | | |
| p-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| p-Isopropyltoluene | ND | 5.0 | ug/kg | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Styrene | ND | 5.0 | ug/kg | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Tetrachloroethene | ND | 5.0 | ug/kg | | | | | | | |
| Toluene | ND | 5.0 | ug/kg | | | | | | | |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| Trichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/kg | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/kg | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *52.3* | | *ug/kg* | *50.0* | | *105* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *49.4* | | *ug/kg* | *50.0* | | *99* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *51.5* | | *ug/kg* | *50.0* | | *103* | *84-120* | | | |
| *Surr: Toluene-d8* | *50.4* | | *ug/kg* | *50.0* | | *101* | *82-120* | | | |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS (W5K0373-BS1)** | | | | Analyzed: 11/05/15 21:58 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 50.3 | 5.0 | ug/kg | 50.0 | | 101 | 81-120 | | | |
| 1,1,1-Trichloroethane | 52.9 | 5.0 | ug/kg | 50.0 | | 106 | 78-125 | | | |
| 1,1,2,2-Tetrachloroethane | 49.4 | 5.0 | ug/kg | 50.0 | | 99 | 67-115 | | | |
| 1,1,2-Trichloroethane | 48.0 | 5.0 | ug/kg | 50.0 | | 96 | 85-121 | | | |
| 1,1-Dichloroethane | 48.7 | 5.0 | ug/kg | 50.0 | | 97 | 84-118 | | | |
| 1,1-Dichloroethene | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 80-123 | | | |
| 1,1-Dichloropropene | 50.9 | 5.0 | ug/kg | 50.0 | | 102 | 79-128 | | | |
| 1,2,3-Trichlorobenzene | 46.2 | 5.0 | ug/kg | 50.0 | | 92 | 36-201 | | | |
| 1,2,3-Trichloropropane | 48.0 | 5.0 | ug/kg | 50.0 | | 96 | 65-115 | | | |
| 1,2,4-Trichlorobenzene | 44.8 | 5.0 | ug/kg | 50.0 | | 90 | 69-143 | | | |
| 1,2,4-Trimethylbenzene | 48.2 | 5.0 | ug/kg | 50.0 | | 96 | 70-119 | | | |
| 1,2-Dibromo-3-chloropropane | 50.7 | 5.0 | ug/kg | 50.0 | | 101 | 62-140 | | | |
| 1,2-Dibromoethane (EDB) | 51.8 | 5.0 | ug/kg | 50.0 | | 104 | 86-125 | | | |
| 1,2-Dichloroethane | 47.9 | 5.0 | ug/kg | 50.0 | | 96 | 74-123 | | | |
| 1,2-Dichloropropane | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 83-122 | | | |
| 1,3,5-Trimethylbenzene | 48.0 | 5.0 | ug/kg | 50.0 | | 96 | 66-122 | | | |
| 1,3-Dichloropropane | 49.6 | 5.0 | ug/kg | 50.0 | | 99 | 85-122 | | | |
| 2,2-Dichloropropane | 51.1 | 5.0 | ug/kg | 50.0 | | 102 | 78-124 | | | |
| 2-Butanone | 50.9 | 5.0 | ug/kg | 50.0 | | 102 | 65-139 | | | |
| 2-Chloroethyl vinyl ether | 22.4 | 5.0 | ug/kg | 50.0 | | 45 | 62-134 | | | Q-ME |
| 2-Chlorotoluene | 49.8 | 5.0 | ug/kg | 50.0 | | 100 | 65-118 | | | |
| 2-Hexanone | 49.9 | 5.0 | ug/kg | 50.0 | | 100 | 72-138 | | | |
| 4-Chlorotoluene | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 71-116 | | | |
| 4-Methyl-2-pentanone | 48.7 | 5.0 | ug/kg | 50.0 | | 97 | 70-133 | | | |
| Acetone | 51.3 | 5.0 | ug/kg | 50.0 | | 103 | 57-138 | | | |
| Acrolein | 34.7 | 5.0 | ug/kg | 50.0 | | 69 | 57-139 | | | |
| Acrylonitrile | 51.2 | 5.0 | ug/kg | 50.0 | | 102 | 78-124 | | | |
| Benzene | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 83-121 | | | |
| Bromobenzene | 46.4 | 5.0 | ug/kg | 50.0 | | 93 | 67-115 | | | |
| Bromochloromethane | 50.1 | 5.0 | ug/kg | 50.0 | | 100 | 82-117 | | | |
| Bromodichloromethane | 52.3 | 5.0 | ug/kg | 50.0 | | 105 | 78-122 | | | |
| Bromoform | 49.6 | 5.0 | ug/kg | 50.0 | | 99 | 83-125 | | | |
| Bromomethane | 47.9 | 5.0 | ug/kg | 50.0 | | 96 | 58-133 | | | |
| Carbon tetrachloride | 55.0 | 5.0 | ug/kg | 50.0 | | 110 | 79-126 | | | |
| Chlorobenzene | 49.1 | 5.0 | ug/kg | 50.0 | | 98 | 84-118 | | | |
| Chloroethane | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 58-135 | | | |
| Chloroform | 48.5 | 5.0 | ug/kg | 50.0 | | 97 | 80-123 | | | |
| Chloromethane | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 58-128 | | | |
| cis-1,2-Dichloroethene | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 83-120 | | | |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS (W5K0373-BS1)** | | | | Analyzed: 11/05/15 21:58 | | | | | | |
| cis-1,3-Dichloropropene | 52.2 | 5.0 | ug/kg | 50.0 | | 104 | 88-123 | | | |
| Dibromochloromethane | 54.7 | 5.0 | ug/kg | 50.0 | | 109 | 83-124 | | | |
| Dibromomethane | 48.2 | 5.0 | ug/kg | 50.0 | | 96 | 84-123 | | | |
| Dichlorodifluoromethane (Freon 12) | 51.3 | 5.0 | ug/kg | 50.0 | | 103 | 67-126 | | | |
| Ethylbenzene | 49.1 | 5.0 | ug/kg | 50.0 | | 98 | 80-120 | | | |
| Hexachlorobutadiene | 47.7 | 5.0 | ug/kg | 50.0 | | 95 | 70-130 | | | |
| Isopropylbenzene | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 66-122 | | | |
| m,p-Xylene | 51.6 | 5.0 | ug/kg | 50.0 | | 103 | 78-120 | | | |
| m-Dichlorobenzene | 48.1 | 5.0 | ug/kg | 50.0 | | 96 | 75-119 | | | |
| Methyl tert-butyl ether (MTBE) | 48.5 | 5.0 | ug/kg | 50.0 | | 97 | 83-122 | | | |
| Methylene chloride | 53.2 | 5.0 | ug/kg | 50.0 | | 106 | 76-118 | | | |
| Naphthalene | 46.3 | 5.0 | ug/kg | 50.0 | | 93 | 42-190 | | | |
| n-Butylbenzene | 48.6 | 5.0 | ug/kg | 50.0 | | 97 | 68-119 | | | |
| n-Propylbenzene | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 64-120 | | | |
| o-Dichlorobenzene | 48.5 | 5.0 | ug/kg | 50.0 | | 97 | 77-117 | | | |
| o-Xylene | 48.3 | 5.0 | ug/kg | 50.0 | | 97 | 77-126 | | | |
| p-Dichlorobenzene | 46.3 | 5.0 | ug/kg | 50.0 | | 93 | 76-119 | | | |
| p-Isopropyltoluene | 48.1 | 5.0 | ug/kg | 50.0 | | 96 | 70-123 | | | |
| sec-Butylbenzene | 50.9 | 5.0 | ug/kg | 50.0 | | 102 | 67-120 | | | |
| Styrene | 49.9 | 5.0 | ug/kg | 50.0 | | 100 | 84-125 | | | |
| tert-Butylbenzene | 49.6 | 5.0 | ug/kg | 50.0 | | 99 | 70-119 | | | |
| Tetrachloroethene | 47.9 | 5.0 | ug/kg | 50.0 | | 96 | 80-129 | | | |
| Toluene | 47.8 | 5.0 | ug/kg | 50.0 | | 96 | 81-126 | | | |
| trans-1,2-Dichloroethene | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 82-123 | | | |
| trans-1,3-Dichloropropene | 52.7 | 5.0 | ug/kg | 50.0 | | 105 | 81-131 | | | |
| Trichloroethene | 48.6 | 5.0 | ug/kg | 50.0 | | 97 | 82-118 | | | |
| Trichlorofluoromethane | 50.3 | 5.0 | ug/kg | 50.0 | | 101 | 72-129 | | | |
| Vinyl chloride | 49.0 | 5.0 | ug/kg | 50.0 | | 98 | 63-130 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *51.0* | | *ug/kg* | *50.0* | | *102* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *51.2* | | *ug/kg* | *50.0* | | *102* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *51.8* | | *ug/kg* | *50.0* | | *104* | *84-120* | | | |
| *Surr: Toluene-d8* | *51.4* | | *ug/kg* | *50.0* | | *103* | *82-120* | | | |
| **LCS Dup (W5K0373-BSD1)** | | | | Analyzed: 11/05/15 22:30 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 47.4 | 5.0 | ug/kg | 50.0 | | 95 | 81-120 | 6 | 25 | |
| 1,1,1-Trichloroethane | 49.6 | 5.0 | ug/kg | 50.0 | | 99 | 78-125 | 6 | 25 | |
| 1,1,2,2-Tetrachloroethane | 46.8 | 5.0 | ug/kg | 50.0 | | 94 | 67-115 | 5 | 25 | |
| 1,1,2-Trichloroethane | 45.2 | 5.0 | ug/kg | 50.0 | | 90 | 85-121 | 6 | 25 | |
| 1,1-Dichloroethane | 45.2 | 5.0 | ug/kg | 50.0 | | 90 | 84-118 | 8 | 25 | |
| 1,1-Dichloroethene | 43.0 | 5.0 | ug/kg | 50.0 | | 86 | 80-123 | 8 | 25 | |



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2001 22nd Street, Suite 100
Bakersfield, CA 93301 CA, 93301

**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS Dup (W5K0373-BSD1)** | | | | Analyzed: 11/05/15 22:30 | | | | | | |
| 1,1-Dichloropropene | 47.3 | 5.0 | ug/kg | 50.0 | | 95 | 79-128 | 7 | 25 | |
| 1,2,3-Trichlorobenzene | 43.0 | 5.0 | ug/kg | 50.0 | | 86 | 36-201 | 7 | 25 | |
| 1,2,3-Trichloropropane | 44.5 | 5.0 | ug/kg | 50.0 | | 89 | 65-115 | 8 | 25 | |
| 1,2,4-Trichlorobenzene | 41.0 | 5.0 | ug/kg | 50.0 | | 82 | 69-143 | 9 | 25 | |
| 1,2,4-Trimethylbenzene | 45.0 | 5.0 | ug/kg | 50.0 | | 90 | 70-119 | 7 | 25 | |
| 1,2-Dibromo-3-chloropropane | 50.1 | 5.0 | ug/kg | 50.0 | | 100 | 62-140 | 1 | 25 | |
| 1,2-Dibromoethane (EDB) | 49.4 | 5.0 | ug/kg | 50.0 | | 99 | 86-125 | 5 | 25 | |
| 1,2-Dichloroethane | 44.8 | 5.0 | ug/kg | 50.0 | | 90 | 74-123 | 7 | 25 | |
| 1,2-Dichloropropane | 45.6 | 5.0 | ug/kg | 50.0 | | 91 | 83-122 | 7 | 25 | |
| 1,3,5-Trimethylbenzene | 45.3 | 5.0 | ug/kg | 50.0 | | 91 | 66-122 | 6 | 25 | |
| 1,3-Dichloropropane | 46.8 | 5.0 | ug/kg | 50.0 | | 94 | 85-122 | 6 | 25 | |
| 2,2-Dichloropropane | 48.9 | 5.0 | ug/kg | 50.0 | | 98 | 78-124 | 4 | 25 | |
| 2-Butanone | 47.7 | 5.0 | ug/kg | 50.0 | | 95 | 65-139 | 7 | 25 | |
| 2-Chloroethyl vinyl ether | 22.6 | 5.0 | ug/kg | 50.0 | | 45 | 62-134 | 0.5 | 25 | Q-ME |
| 2-Chlorotoluene | 46.8 | 5.0 | ug/kg | 50.0 | | 94 | 65-118 | 6 | 25 | |
| 2-Hexanone | 48.4 | 5.0 | ug/kg | 50.0 | | 97 | 72-138 | 3 | 25 | |
| 4-Chlorotoluene | 45.7 | 5.0 | ug/kg | 50.0 | | 91 | 71-116 | 7 | 25 | |
| 4-Methyl-2-pentanone | 46.9 | 5.0 | ug/kg | 50.0 | | 94 | 70-133 | 4 | 25 | |
| Acetone | 47.4 | 5.0 | ug/kg | 50.0 | | 95 | 57-138 | 8 | 25 | |
| Acrolein | 41.7 | 5.0 | ug/kg | 50.0 | | 83 | 57-139 | 18 | 25 | |
| Acrylonitrile | 50.8 | 5.0 | ug/kg | 50.0 | | 102 | 78-124 | 0.9 | 25 | |
| Benzene | 45.5 | 5.0 | ug/kg | 50.0 | | 91 | 83-121 | 7 | 25 | |
| Bromobenzene | 43.8 | 5.0 | ug/kg | 50.0 | | 88 | 67-115 | 6 | 25 | |
| Bromochloromethane | 47.6 | 5.0 | ug/kg | 50.0 | | 95 | 82-117 | 5 | 25 | |
| Bromodichloromethane | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 78-122 | 7 | 25 | |
| Bromoform | 47.4 | 5.0 | ug/kg | 50.0 | | 95 | 83-125 | 5 | 25 | |
| Bromomethane | 45.1 | 5.0 | ug/kg | 50.0 | | 90 | 58-133 | 6 | 25 | |
| Carbon tetrachloride | 51.4 | 5.0 | ug/kg | 50.0 | | 103 | 79-126 | 7 | 25 | |
| Chlorobenzene | 45.9 | 5.0 | ug/kg | 50.0 | | 92 | 84-118 | 7 | 25 | |
| Chloroethane | 43.3 | 5.0 | ug/kg | 50.0 | | 87 | 58-135 | 9 | 25 | |
| Chloroform | 45.0 | 5.0 | ug/kg | 50.0 | | 90 | 80-123 | 7 | 25 | |
| Chloromethane | 43.6 | 5.0 | ug/kg | 50.0 | | 87 | 58-128 | 7 | 25 | |
| cis-1,2-Dichloroethene | 43.9 | 5.0 | ug/kg | 50.0 | | 88 | 83-120 | 7 | 25 | |
| cis-1,3-Dichloropropene | 49.1 | 5.0 | ug/kg | 50.0 | | 98 | 88-123 | 6 | 25 | |
| Dibromochloromethane | 51.2 | 5.0 | ug/kg | 50.0 | | 102 | 83-124 | 7 | 25 | |
| Dibromomethane | 45.7 | 5.0 | ug/kg | 50.0 | | 91 | 84-123 | 5 | 25 | |
| Dichlorodifluoromethane (Freon 12) | 47.7 | 5.0 | ug/kg | 50.0 | | 95 | 67-126 | 7 | 25 | |
| Ethylbenzene | 45.4 | 5.0 | ug/kg | 50.0 | | 91 | 80-120 | 8 | 25 | |
| Hexachlorobutadiene | 44.5 | 5.0 | ug/kg | 50.0 | | 89 | 70-130 | 7 | 25 | |

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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS Dup (W5K0373-BSD1)** | | | | Analyzed: 11/05/15 22:30 | | | | | | |
| Isopropylbenzene | 44.8 | 5.0 | ug/kg | 50.0 | | 90 | 66-122 | 6 | 25 | |
| m,p-Xylene | 47.9 | 5.0 | ug/kg | 50.0 | | 96 | 78-120 | 7 | 25 | |
| m-Dichlorobenzene | 45.2 | 5.0 | ug/kg | 50.0 | | 90 | 75-119 | 6 | 25 | |
| Methyl tert-butyl ether (MTBE) | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 83-122 | 4 | 25 | |
| Methylene chloride | 49.3 | 5.0 | ug/kg | 50.0 | | 99 | 76-118 | 8 | 25 | |
| Naphthalene | 45.0 | 5.0 | ug/kg | 50.0 | | 90 | 42-190 | 3 | 25 | |
| n-Butylbenzene | 44.9 | 5.0 | ug/kg | 50.0 | | 90 | 68-119 | 8 | 25 | |
| n-Propylbenzene | 43.7 | 5.0 | ug/kg | 50.0 | | 87 | 64-120 | 7 | 25 | |
| o-Dichlorobenzene | 45.6 | 5.0 | ug/kg | 50.0 | | 91 | 77-117 | 6 | 25 | |
| o-Xylene | 45.1 | 5.0 | ug/kg | 50.0 | | 90 | 77-126 | 7 | 25 | |
| p-Dichlorobenzene | 43.5 | 5.0 | ug/kg | 50.0 | | 87 | 76-119 | 6 | 25 | |
| p-Isopropyltoluene | 44.7 | 5.0 | ug/kg | 50.0 | | 89 | 70-123 | 7 | 25 | |
| sec-Butylbenzene | 48.2 | 5.0 | ug/kg | 50.0 | | 96 | 67-120 | 5 | 25 | |
| Styrene | 46.8 | 5.0 | ug/kg | 50.0 | | 94 | 84-125 | 6 | 25 | |
| tert-Butylbenzene | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 70-119 | 5 | 25 | |
| Tetrachloroethene | 43.9 | 5.0 | ug/kg | 50.0 | | 88 | 80-129 | 9 | 25 | |
| Toluene | 44.1 | 5.0 | ug/kg | 50.0 | | 88 | 81-126 | 8 | 25 | |
| trans-1,2-Dichloroethene | 43.5 | 5.0 | ug/kg | 50.0 | | 87 | 82-123 | 7 | 25 | |
| trans-1,3-Dichloropropene | 49.6 | 5.0 | ug/kg | 50.0 | | 99 | 81-131 | 6 | 25 | |
| Trichloroethene | 45.2 | 5.0 | ug/kg | 50.0 | | 90 | 82-118 | 7 | 25 | |
| Trichlorofluoromethane | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 72-129 | 7 | 25 | |
| Vinyl chloride | 45.3 | 5.0 | ug/kg | 50.0 | | 91 | 63-130 | 8 | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *50.8* | | *ug/kg* | *50.0* | | *102* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *50.6* | | *ug/kg* | *50.0* | | *101* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *50.4* | | *ug/kg* | *50.0* | | *101* | *84-120* | | | |
| *Surr: Toluene-d8* | *50.5* | | *ug/kg* | *50.0* | | *101* | *82-120* | | | |
| **Duplicate (W5K0373-DUP1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 15:48 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 15:48 | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 194 | 24 | ug/kg | | 103 | | | 61 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 69.1 | 24 | ug/kg | | 38.3 | | | 57 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 15:48 | | | | | | |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *354* | | *ug/kg* | *238* | | *149* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *151* | | *ug/kg* | *238* | | *64* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *292* | | *ug/kg* | *238* | | *123* | *84-120* | | | |
| *Surr: Toluene-d8* | *189* | | *ug/kg* | *238* | | *79* | *82-120* | | | |
| **Duplicate (W5K0373-DUP2)** | | **Source: 5I25014-02RE1** | | Analyzed: 11/06/15 16:20 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP2)** | | **Source: 5I25014-02RE1** | | Analyzed: 11/06/15 16:20 | | | | | | |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 167 | 24 | ug/kg | | 124 | | | 30 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 17.0 | 24 | ug/kg | | 16.4 | | | 3 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP2)** | **Source: 5I25014-02RE1** | | | Analyzed: 11/06/15 16:20 | | | | | | |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *436* | | *ug/kg* | *238* | | *183* | *78-140* | | | *S-04* |
| *Surr: 4-Bromofluorobenzene* | *143* | | *ug/kg* | *238* | | *60* | *85-116* | | | *S-04* |
| *Surr: Dibromofluoromethane* | *329* | | *ug/kg* | *238* | | *138* | *84-120* | | | *S-04* |
| *Surr: Toluene-d8* | *166* | | *ug/kg* | *238* | | *70* | *82-120* | | | *S-04* |
| **Duplicate (W5K0373-DUP3)** | **Source: 5I25014-03RE1** | | | Analyzed: 11/06/15 16:52 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP3)** | | **Source: 5I25014-03RE1** | | Analyzed: 11/06/15 16:52 | | | | | | |
| Acetone | 217 | 25 | ug/kg | | 98.7 | | | 75 | 25 | M-05 |
| Acrolein | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 11.6 | 25 | ug/kg | | 11.2 | | | 3 | 25 | M-05 |
| Naphthalene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP3)** | **Source: 5I25014-03RE1** | | | Analyzed: 11/06/15 16:52 | | | | | | |
| trans-1,3-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *456* | | *ug/kg* | *246* | | *186* | *78-140* | | | *S-04* |
| *Surr: 4-Bromofluorobenzene* | *144* | | *ug/kg* | *246* | | *59* | *85-116* | | | *S-04* |
| *Surr: Dibromofluoromethane* | *344* | | *ug/kg* | *246* | | *140* | *84-120* | | | *S-04* |
| *Surr: Toluene-d8* | *164* | | *ug/kg* | *246* | | *67* | *82-120* | | | *S-04* |
| **Duplicate (W5K0373-DUP4)** | **Source: 5J02045-01RE1** | | | Analyzed: 11/06/15 08:37 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 217 | 24 | ug/kg | | 186 | | | 16 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP4)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 08:37 | | | | | | |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 5.67 | 24 | ug/kg | | 6.15 | | | 8 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *260* | | *ug/kg* | *242* | | *107* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *245* | | *ug/kg* | *242* | | *101* | *85-116* | | | |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP4)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 08:37 | | | | | | |
| *Surr: Dibromofluoromethane* | *243* | | *ug/kg* | *242* | | *100* | *84-120* | | | |
| *Surr: Toluene-d8* | *254* | | *ug/kg* | *242* | | *105* | *82-120* | | | |
| **Duplicate (W5K0373-DUP5)** | | **Source: 5J02045-02RE1** | | Analyzed: 11/06/15 09:46 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 184 | 24 | ug/kg | | 211 | | | 14 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP5)** | | **Source: 5J02045-02RE1** | | Analyzed: 11/06/15 09:46 | | | | | | |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *249* | | *ug/kg* | *239* | | *104* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *239* | | *ug/kg* | *239* | | *100* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *232* | | *ug/kg* | *239* | | *97* | *84-120* | | | |
| *Surr: Toluene-d8* | *251* | | *ug/kg* | *239* | | *105* | *82-120* | | | |
| **Duplicate (W5K0373-DUP6)** | | **Source: 5J02045-03RE1** | | Analyzed: 11/06/15 10:54 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP6)** | | **Source: 5J02045-03RE1** | | Analyzed: 11/06/15 10:54 | | | | | | |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 187 | 24 | ug/kg | | 175 | | | 6 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP6)** | | **Source: 5J02045-03RE1** | | Analyzed: 11/06/15 10:54 | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *259* | | *ug/kg* | *237* | | *109* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *236* | | *ug/kg* | *237* | | *100* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *245* | | *ug/kg* | *237* | | *103* | *84-120* | | | |
| *Surr: Toluene-d8* | *243* | | *ug/kg* | *237* | | *102* | *82-120* | | | |
| **Duplicate (W5K0373-DUP7)** | | **Source: 5J02045-04RE1** | | Analyzed: 11/06/15 12:02 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP7)** | | **Source: 5J02045-04RE1** | | Analyzed: 11/06/15 12:02 | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 251 | 24 | ug/kg | | 259 | | | 3 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP7)** | | **Source: 5J02045-04RE1** | | Analyzed: 11/06/15 12:02 | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 6.00 | 24 | ug/kg | | 8.75 | | | 37 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *251* | | *ug/kg* | *238* | | *105* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *237* | | *ug/kg* | *238* | | *100* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *233* | | *ug/kg* | *238* | | *98* | *84-120* | | | |
| *Surr: Toluene-d8* | *252* | | *ug/kg* | *238* | | *106* | *82-120* | | | |
| **Duplicate (W5K0373-DUP8)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/07/15 00:15 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP8)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/07/15 00:15 | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 581 | 24 | ug/kg | | 947 | | | 48 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 11.0 | 24 | ug/kg | | 16.7 | | | 41 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP8)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/07/15 00:15 | | | | | | |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | 6.20 | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *286* | | *ug/kg* | *244* | | *117* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *239* | | *ug/kg* | *244* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *261* | | *ug/kg* | *244* | | *107* | *84-120* | | | |
| *Surr: Toluene-d8* | *250* | | *ug/kg* | *244* | | *103* | *82-120* | | | |
| **Duplicate (W5K0373-DUP9)** | | **Source: 5J02046-02RE1** | | Analyzed: 11/07/15 00:47 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP9)** | | **Source: 5J02046-02RE1** | | Analyzed: 11/07/15 00:47 | | | | | | |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 1070 | 24 | ug/kg | | 869 | | | 21 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 24.5 | 24 | ug/kg | | 18.3 | | | 29 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | 134 | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP9)** | | **Source: 5J02046-02RE1** | | Analyzed: 11/07/15 00:47 | | | | | | |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *287* | | *ug/kg* | *240* | | *119* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *227* | | *ug/kg* | *240* | | *95* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *264* | | *ug/kg* | *240* | | *110* | *84-120* | | | |
| *Surr: Toluene-d8* | *249* | | *ug/kg* | *240* | | *104* | *82-120* | | | |
| **Duplicate (W5K0373-DUPA)** | | **Source: 5J02046-03RE1** | | Analyzed: 11/07/15 01:19 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 1510 | 24 | ug/kg | | 1100 | | | 31 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUPA)** | | **Source: 5J02046-03RE1** | | Analyzed: 11/07/15 01:19 | | | | | | |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 53.6 | 24 | ug/kg | | 51.8 | | | 3 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUPA)** | | **Source: 5J02046-03RE1** | | Analyzed: 11/07/15 01:19 | | | | | | |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *285* | | *ug/kg* | *239* | | *120* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *221* | | *ug/kg* | *239* | | *93* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *262* | | *ug/kg* | *239* | | *110* | *84-120* | | | |
| *Surr: Toluene-d8* | *236* | | *ug/kg* | *239* | | *99* | *82-120* | | | |
| **Matrix Spike (W5K0373-MS1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 21:05 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 28.6 | 5.0 | ug/kg | 50.0 | ND | 57 | 50-150 | | | |
| 1,1,1-Trichloroethane | 36.9 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| 1,1,2,2-Tetrachloroethane | 64.0 | 5.0 | ug/kg | 50.0 | ND | 128 | 50-150 | | | |
| 1,1,2-Trichloroethane | 29.2 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | | | |
| 1,1-Dichloroethane | 40.6 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | | | |
| 1,1-Dichloroethene | 38.9 | 5.0 | ug/kg | 50.0 | ND | 78 | 38-139 | | | |
| 1,1-Dichloropropene | 33.8 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | | | |
| 1,2,3-Trichlorobenzene | 14.8 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | | | MS-05 |
| 1,2,3-Trichloropropane | 70.7 | 5.0 | ug/kg | 50.0 | ND | 141 | 50-150 | | | |
| 1,2,4-Trichlorobenzene | 12.4 | 5.0 | ug/kg | 50.0 | ND | 25 | 50-150 | | | MS-05 |
| 1,2,4-Trimethylbenzene | 30.4 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | | | |
| 1,2-Dibromo-3-chloropropane | 50.3 | 5.0 | ug/kg | 50.0 | ND | 101 | 50-150 | | | |
| 1,2-Dibromoethane (EDB) | 30.5 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | | | |
| 1,2-Dichloroethane | 40.3 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | | | |
| 1,2-Dichloropropane | 33.0 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| 1,3,5-Trimethylbenzene | 32.2 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | | | |
| 1,3-Dichloropropane | 31.1 | 5.0 | ug/kg | 50.0 | ND | 62 | 50-150 | | | |
| 2,2-Dichloropropane | 41.5 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | | | |
| 2-Butanone | 70.4 | 5.0 | ug/kg | 50.0 | ND | 141 | 50-150 | | | |
| 2-Chloroethyl vinyl ether | 15.5 | 5.0 | ug/kg | 50.0 | ND | 31 | 50-150 | | | MS-05 |
| 2-Chlorotoluene | 40.3 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | | | |
| 2-Hexanone | 41.8 | 5.0 | ug/kg | 50.0 | ND | 84 | 50-150 | | | |
| 4-Chlorotoluene | 39.5 | 5.0 | ug/kg | 50.0 | ND | 79 | 50-150 | | | |
| 4-Methyl-2-pentanone | 47.5 | 5.0 | ug/kg | 50.0 | ND | 95 | 50-150 | | | |
| Acetone | 76.6 | 5.0 | ug/kg | 50.0 | 103 | NR | 50-150 | | | MS-05 |
| Acrolein | 10.6 | 5.0 | ug/kg | 50.0 | ND | 21 | 50-150 | | | MS-05 |
| Acrylonitrile | 62.4 | 5.0 | ug/kg | 50.0 | ND | 125 | 50-150 | | | |
| Benzene | 35.0 | 5.0 | ug/kg | 50.0 | ND | 70 | 30-134 | | | |
| Bromobenzene | 47.5 | 5.0 | ug/kg | 50.0 | ND | 95 | 50-150 | | | |
| Bromochloromethane | 43.4 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | | | |
| Bromodichloromethane | 31.9 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | | | |
| Bromoform | 29.3 | 5.0 | ug/kg | 50.0 | ND | 59 | 50-150 | | | |
| Bromomethane | 46.8 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | | | |



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2001 22nd Street, Suite 100
Bakersfield, CA 93301 CA, 93301

**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 21:05 | | | | | | |
| Carbon tetrachloride | 36.2 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | | | |
| Chlorobenzene | 29.2 | 5.0 | ug/kg | 50.0 | ND | 58 | 3-135 | | | |
| Chloroethane | 43.7 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | | | |
| Chloroform | 36.5 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | | | |
| Chloromethane | 50.6 | 5.0 | ug/kg | 50.0 | ND | 101 | 50-150 | | | |
| cis-1,2-Dichloroethene | 38.2 | 5.0 | ug/kg | 50.0 | ND | 76 | 50-150 | | | |
| cis-1,3-Dichloropropene | 32.8 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| Dibromochloromethane | 26.2 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | | | |
| Dibromomethane | 37.2 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| Dichlorodifluoromethane (Freon 12) | 46.2 | 5.0 | ug/kg | 50.0 | ND | 92 | 50-150 | | | |
| Ethylbenzene | 26.7 | 5.0 | ug/kg | 50.0 | ND | 53 | 50-150 | | | |
| Hexachlorobutadiene | 10.1 | 5.0 | ug/kg | 50.0 | ND | 20 | 50-150 | | | MS-05 |
| Isopropylbenzene | 46.6 | 5.0 | ug/kg | 50.0 | ND | 93 | 50-150 | | | |
| m,p-Xylene | 26.1 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | | | |
| m-Dichlorobenzene | 28.4 | 5.0 | ug/kg | 50.0 | ND | 57 | 50-150 | | | |
| Methyl tert-butyl ether (MTBE) | 51.9 | 5.0 | ug/kg | 50.0 | ND | 104 | 50-150 | | | |
| Methylene chloride | 58.5 | 5.0 | ug/kg | 50.0 | 38.3 | 40 | 50-150 | | | MS-05 |
| Naphthalene | 21.8 | 5.0 | ug/kg | 50.0 | ND | 44 | 50-150 | | | MS-05 |
| n-Butylbenzene | 22.5 | 5.0 | ug/kg | 50.0 | ND | 45 | 50-150 | | | MS-05 |
| n-Propylbenzene | 39.8 | 5.0 | ug/kg | 50.0 | ND | 80 | 50-150 | | | |
| o-Dichlorobenzene | 26.3 | 5.0 | ug/kg | 50.0 | ND | 53 | 50-150 | | | |
| o-Xylene | 21.7 | 5.0 | ug/kg | 50.0 | ND | 43 | 50-150 | | | MS-05 |
| p-Dichlorobenzene | 27.1 | 5.0 | ug/kg | 50.0 | ND | 54 | 50-150 | | | |
| p-Isopropyltoluene | 26.0 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | | | |
| sec-Butylbenzene | 32.8 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| Styrene | 22.0 | 5.0 | ug/kg | 50.0 | ND | 44 | 50-150 | | | MS-05 |
| tert-Butylbenzene | 32.7 | 5.0 | ug/kg | 50.0 | ND | 65 | 50-150 | | | |
| Tetrachloroethene | 20.9 | 5.0 | ug/kg | 50.0 | ND | 42 | 50-150 | | | MS-05 |
| Toluene | 24.5 | 5.0 | ug/kg | 50.0 | ND | 49 | 11-140 | | | |
| trans-1,2-Dichloroethene | 38.0 | 5.0 | ug/kg | 50.0 | ND | 76 | 50-150 | | | |
| trans-1,3-Dichloropropene | 31.7 | 5.0 | ug/kg | 50.0 | ND | 63 | 50-150 | | | |
| Trichloroethene | 29.0 | 5.0 | ug/kg | 50.0 | ND | 58 | 10-144 | | | |
| Trichlorofluoromethane | 41.4 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | | | |
| Vinyl chloride | 45.1 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *67.0* | | *ug/kg* | *50.0* | | *134* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *34.2* | | *ug/kg* | *50.0* | | *68* | *85-116* | | | *S-04* |
| *Surr: Dibromofluoromethane* | *58.1* | | *ug/kg* | *50.0* | | *116* | *84-120* | | | |
| *Surr: Toluene-d8* | *41.3* | | *ug/kg* | *50.0* | | *83* | *82-120* | | | |
| **Matrix Spike (W5K0373-MS2)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 17:24 | | | | | | |



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Bakersfield, CA 93301 CA, 93301

**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS2)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 17:24 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 33.6 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| 1,1,1-Trichloroethane | 39.7 | 5.0 | ug/kg | 50.0 | ND | 79 | 50-150 | | | |
| 1,1,2,2-Tetrachloroethane | 31.6 | 5.0 | ug/kg | 50.0 | ND | 63 | 50-150 | | | |
| 1,1,2-Trichloroethane | 34.2 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | | | |
| 1,1-Dichloroethane | 37.8 | 5.0 | ug/kg | 50.0 | ND | 76 | 50-150 | | | |
| 1,1-Dichloroethene | 36.1 | 5.0 | ug/kg | 50.0 | ND | 72 | 38-139 | | | |
| 1,1-Dichloropropene | 39.0 | 5.0 | ug/kg | 50.0 | ND | 78 | 50-150 | | | |
| 1,2,3-Trichlorobenzene | 24.4 | 5.0 | ug/kg | 50.0 | ND | 49 | 50-150 | | | MS-05 |
| 1,2,3-Trichloropropane | 32.0 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | | | |
| 1,2,4-Trichlorobenzene | 25.6 | 5.0 | ug/kg | 50.0 | ND | 51 | 50-150 | | | |
| 1,2,4-Trimethylbenzene | 33.4 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| 1,2-Dibromo-3-chloropropane | 29.1 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | | | |
| 1,2-Dibromoethane (EDB) | 36.4 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | | | |
| 1,2-Dichloroethane | 36.1 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | | | |
| 1,2-Dichloropropane | 37.6 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | | | |
| 1,3,5-Trimethylbenzene | 33.4 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| 1,3-Dichloropropane | 35.6 | 5.0 | ug/kg | 50.0 | ND | 71 | 50-150 | | | |
| 2,2-Dichloropropane | 41.3 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | | | |
| 2-Butanone | ND | 5.0 | ug/kg | 50.0 | ND | NR | 50-150 | | | MS-05 |
| 2-Chloroethyl vinyl ether | 22.1 | 5.0 | ug/kg | 50.0 | ND | 44 | 50-150 | | | MS-05 |
| 2-Chlorotoluene | 35.2 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| 2-Hexanone | 33.0 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| 4-Chlorotoluene | 34.8 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| 4-Methyl-2-pentanone | 50.5 | 5.0 | ug/kg | 50.0 | ND | 101 | 50-150 | | | |
| Acetone | 37.0 | 5.0 | ug/kg | 50.0 | 186 | NR | 50-150 | | | MS-05 |
| Acrolein | 19.8 | 5.0 | ug/kg | 50.0 | ND | 40 | 50-150 | | | MS-05 |
| Acrylonitrile | 33.8 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | | | |
| Benzene | 38.2 | 5.0 | ug/kg | 50.0 | ND | 76 | 30-134 | | | |
| Bromobenzene | 31.9 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | | | |
| Bromochloromethane | 37.2 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| Bromodichloromethane | 37.4 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | | | |
| Bromoform | 31.3 | 5.0 | ug/kg | 50.0 | ND | 63 | 50-150 | | | |
| Bromomethane | 37.7 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | | | |
| Carbon tetrachloride | 40.4 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | | | |
| Chlorobenzene | 35.6 | 5.0 | ug/kg | 50.0 | ND | 71 | 3-135 | | | |
| Chloroethane | 36.0 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | | | |
| Chloroform | 36.8 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| Chloromethane | 37.4 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | | | |
| cis-1,2-Dichloroethene | 314 | 5.0 | ug/kg | 50.0 | ND | 628 | 50-150 | | | MS-05 |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS2)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 17:24 | | | | | | |
| cis-1,3-Dichloropropene | 38.6 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | | | |
| Dibromochloromethane | 36.5 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | | | |
| Dibromomethane | 34.9 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| Dichlorodifluoromethane (Freon 12) | 39.9 | 5.0 | ug/kg | 50.0 | ND | 80 | 50-150 | | | |
| Ethylbenzene | 35.0 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| Hexachlorobutadiene | 27.0 | 5.0 | ug/kg | 50.0 | ND | 54 | 50-150 | | | |
| Isopropylbenzene | 33.3 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| m,p-Xylene | 36.8 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| m-Dichlorobenzene | 33.3 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| Methyl tert-butyl ether (MTBE) | 33.8 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | | | |
| Methylene chloride | 41.5 | 5.0 | ug/kg | 50.0 | 6.15 | 71 | 50-150 | | | |
| Naphthalene | 23.3 | 5.0 | ug/kg | 50.0 | ND | 47 | 50-150 | | | MS-05 |
| n-Butylbenzene | 33.0 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| n-Propylbenzene | 33.2 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| o-Dichlorobenzene | 32.4 | 5.0 | ug/kg | 50.0 | ND | 65 | 50-150 | | | |
| o-Xylene | 33.7 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| p-Dichlorobenzene | 32.0 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | | | |
| p-Isopropyltoluene | 32.6 | 5.0 | ug/kg | 50.0 | ND | 65 | 50-150 | | | |
| sec-Butylbenzene | 34.7 | 5.0 | ug/kg | 50.0 | ND | 69 | 50-150 | | | |
| Styrene | 35.1 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| tert-Butylbenzene | 33.7 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| Tetrachloroethene | 35.8 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | | | |
| Toluene | 36.6 | 5.0 | ug/kg | 50.0 | ND | 73 | 11-140 | | | |
| trans-1,2-Dichloroethene | 36.4 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | | | |
| trans-1,3-Dichloropropene | 38.3 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | | | |
| Trichloroethene | 37.1 | 5.0 | ug/kg | 50.0 | ND | 74 | 10-144 | | | |
| Trichlorofluoromethane | 38.7 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | | | |
| Vinyl chloride | 36.9 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *55.9* | | *ug/kg* | *50.0* | | *112* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *50.4* | | *ug/kg* | *50.0* | | *101* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *52.9* | | *ug/kg* | *50.0* | | *106* | *84-120* | | | |
| *Surr: Toluene-d8* | *52.1* | | *ug/kg* | *50.0* | | *104* | *82-120* | | | |
| **Matrix Spike (W5K0373-MS3)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/06/15 22:08 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 15.2 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | | | MS-05 |
| 1,1,1-Trichloroethane | 26.9 | 5.0 | ug/kg | 50.0 | ND | 54 | 50-150 | | | |
| 1,1,2,2-Tetrachloroethane | 17.8 | 5.0 | ug/kg | 50.0 | ND | 36 | 50-150 | | | MS-05 |
| 1,1,2-Trichloroethane | 17.4 | 5.0 | ug/kg | 50.0 | ND | 35 | 50-150 | | | MS-05 |
| 1,1-Dichloroethane | 29.0 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | | | |
| 1,1-Dichloroethene | 27.9 | 5.0 | ug/kg | 50.0 | ND | 56 | 38-139 | | | |

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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS3)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/06/15 22:08 | | | | | | |
| 1,1-Dichloropropene | 24.5 | 5.0 | ug/kg | 50.0 | ND | 49 | 50-150 | | | MS-05 |
| 1,2,3-Trichlorobenzene | 7.65 | 5.0 | ug/kg | 50.0 | ND | 15 | 50-150 | | | MS-05 |
| 1,2,3-Trichloropropane | 19.5 | 5.0 | ug/kg | 50.0 | ND | 39 | 50-150 | | | MS-05 |
| 1,2,4-Trichlorobenzene | 8.69 | 5.0 | ug/kg | 50.0 | ND | 17 | 50-150 | | | MS-05 |
| 1,2,4-Trimethylbenzene | 17.4 | 5.0 | ug/kg | 50.0 | ND | 35 | 50-150 | | | MS-05 |
| 1,2-Dibromo-3-chloropropane | 16.2 | 5.0 | ug/kg | 50.0 | ND | 32 | 50-150 | | | MS-05 |
| 1,2-Dibromoethane (EDB) | 17.7 | 5.0 | ug/kg | 50.0 | ND | 35 | 50-150 | | | MS-05 |
| 1,2-Dichloroethane | 26.1 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | | | |
| 1,2-Dichloropropane | 22.1 | 5.0 | ug/kg | 50.0 | ND | 44 | 50-150 | | | MS-05 |
| 1,3,5-Trimethylbenzene | 18.8 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | | | MS-05 |
| 1,3-Dichloropropane | 18.7 | 5.0 | ug/kg | 50.0 | ND | 37 | 50-150 | | | MS-05 |
| 2,2-Dichloropropane | 30.7 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | | | |
| 2-Butanone | 35.1 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| 2-Chloroethyl vinyl ether | 10.8 | 5.0 | ug/kg | 50.0 | ND | 22 | 50-150 | | | MS-05 |
| 2-Chlorotoluene | 18.2 | 5.0 | ug/kg | 50.0 | ND | 36 | 50-150 | | | MS-05 |
| 2-Hexanone | 29.4 | 5.0 | ug/kg | 50.0 | ND | 59 | 50-150 | | | |
| 4-Chlorotoluene | 17.2 | 5.0 | ug/kg | 50.0 | ND | 34 | 50-150 | | | MS-05 |
| 4-Methyl-2-pentanone | 40.6 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | | | |
| Acetone | 209 | 5.0 | ug/kg | 50.0 | 947 | NR | 50-150 | | | MS-05 |
| Acrolein | 3.42 | 5.0 | ug/kg | 50.0 | ND | 7 | 50-150 | | | MS-05 |
| Acrylonitrile | 43.2 | 5.0 | ug/kg | 50.0 | ND | 86 | 50-150 | | | |
| Benzene | 23.8 | 5.0 | ug/kg | 50.0 | ND | 48 | 30-134 | | | |
| Bromobenzene | 15.4 | 5.0 | ug/kg | 50.0 | ND | 31 | 50-150 | | | MS-05 |
| Bromochloromethane | 28.3 | 5.0 | ug/kg | 50.0 | ND | 57 | 50-150 | | | |
| Bromodichloromethane | 20.2 | 5.0 | ug/kg | 50.0 | ND | 40 | 50-150 | | | MS-05 |
| Bromoform | 13.3 | 5.0 | ug/kg | 50.0 | ND | 27 | 50-150 | | | MS-05 |
| Bromomethane | 12.1 | 5.0 | ug/kg | 50.0 | ND | 24 | 50-150 | | | MS-05 |
| Carbon tetrachloride | 27.9 | 5.0 | ug/kg | 50.0 | ND | 56 | 50-150 | | | |
| Chlorobenzene | 14.8 | 5.0 | ug/kg | 50.0 | ND | 30 | 3-135 | | | |
| Chloroethane | 34.3 | 5.0 | ug/kg | 50.0 | ND | 69 | 50-150 | | | |
| Chloroform | 24.8 | 5.0 | ug/kg | 50.0 | ND | 50 | 50-150 | | | |
| Chloromethane | 30.7 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | | | |
| cis-1,2-Dichloroethene | 29.9 | 5.0 | ug/kg | 50.0 | ND | 60 | 50-150 | | | |
| cis-1,3-Dichloropropene | 20.3 | 5.0 | ug/kg | 50.0 | ND | 41 | 50-150 | | | MS-05 |
| Dibromochloromethane | 15.9 | 5.0 | ug/kg | 50.0 | ND | 32 | 50-150 | | | MS-05 |
| Dibromomethane | 22.3 | 5.0 | ug/kg | 50.0 | ND | 45 | 50-150 | | | MS-05 |
| Dichlorodifluoromethane (Freon 12) | 34.5 | 5.0 | ug/kg | 50.0 | ND | 69 | 50-150 | | | |
| Ethylbenzene | 16.4 | 5.0 | ug/kg | 50.0 | ND | 33 | 50-150 | | | MS-05 |
| Hexachlorobutadiene | 11.3 | 5.0 | ug/kg | 50.0 | ND | 23 | 50-150 | | | MS-05 |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS3)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/06/15 22:08 | | | | | | |
| Isopropylbenzene | 23.1 | 5.0 | ug/kg | 50.0 | ND | 46 | 50-150 | | | MS-05 |
| m,p-Xylene | 16.4 | 5.0 | ug/kg | 50.0 | ND | 33 | 50-150 | | | MS-05 |
| m-Dichlorobenzene | 15.1 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | | | MS-05 |
| Methyl tert-butyl ether (MTBE) | 37.6 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | | | |
| Methylene chloride | 38.4 | 5.0 | ug/kg | 50.0 | 16.7 | 44 | 50-150 | | | MS-05 |
| Naphthalene | 7.54 | 5.0 | ug/kg | 50.0 | ND | 15 | 50-150 | | | MS-05 |
| n-Butylbenzene | 18.9 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | | | MS-05 |
| n-Propylbenzene | 21.0 | 5.0 | ug/kg | 50.0 | ND | 42 | 50-150 | | | MS-05 |
| o-Dichlorobenzene | 13.8 | 5.0 | ug/kg | 50.0 | ND | 28 | 50-150 | | | MS-05 |
| o-Xylene | 13.8 | 5.0 | ug/kg | 50.0 | ND | 28 | 50-150 | | | MS-05 |
| p-Dichlorobenzene | 14.1 | 5.0 | ug/kg | 50.0 | ND | 28 | 50-150 | | | MS-05 |
| p-Isopropyltoluene | 20.0 | 5.0 | ug/kg | 50.0 | ND | 40 | 50-150 | | | MS-05 |
| sec-Butylbenzene | 23.1 | 5.0 | ug/kg | 50.0 | ND | 46 | 50-150 | | | MS-05 |
| Styrene | 12.8 | 5.0 | ug/kg | 50.0 | ND | 26 | 50-150 | | | MS-05 |
| tert-Butylbenzene | 21.7 | 5.0 | ug/kg | 50.0 | ND | 43 | 50-150 | | | MS-05 |
| Tetrachloroethene | 19.0 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | | | MS-05 |
| Toluene | 17.8 | 5.0 | ug/kg | 50.0 | ND | 36 | 11-140 | | | |
| trans-1,2-Dichloroethene | 26.9 | 5.0 | ug/kg | 50.0 | ND | 54 | 50-150 | | | |
| trans-1,3-Dichloropropene | 19.2 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | | | MS-05 |
| Trichloroethene | 20.8 | 5.0 | ug/kg | 50.0 | ND | 42 | 10-144 | | | |
| Trichlorofluoromethane | 29.8 | 5.0 | ug/kg | 50.0 | ND | 60 | 50-150 | | | |
| Vinyl chloride | 36.3 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *58.9* | | *ug/kg* | *50.0* | | *118* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *44.9* | | *ug/kg* | *50.0* | | *90* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *54.7* | | *ug/kg* | *50.0* | | *109* | *84-120* | | | |
| *Surr: Toluene-d8* | *49.8* | | *ug/kg* | *50.0* | | *100* | *82-120* | | | |
| **Matrix Spike Dup (W5K0373-MSD1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 21:37 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 32.2 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | 12 | 25 | |
| 1,1,1-Trichloroethane | 43.5 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | 16 | 25 | |
| 1,1,2,2-Tetrachloroethane | 71.8 | 5.0 | ug/kg | 50.0 | ND | 144 | 50-150 | 11 | 25 | |
| 1,1,2-Trichloroethane | 34.0 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | 15 | 25 | |
| 1,1-Dichloroethane | 45.8 | 5.0 | ug/kg | 50.0 | ND | 92 | 50-150 | 12 | 25 | |
| 1,1-Dichloroethene | 45.8 | 5.0 | ug/kg | 50.0 | ND | 92 | 38-139 | 16 | 25 | |
| 1,1-Dichloropropene | 39.7 | 5.0 | ug/kg | 50.0 | ND | 79 | 50-150 | 16 | 25 | |
| 1,2,3-Trichlorobenzene | 9.53 | 5.0 | ug/kg | 50.0 | ND | 19 | 50-150 | 43 | 25 | MS-05 |
| 1,2,3-Trichloropropane | 78.0 | 5.0 | ug/kg | 50.0 | ND | 156 | 50-150 | 10 | 25 | MS-05 |
| 1,2,4-Trichlorobenzene | 9.88 | 5.0 | ug/kg | 50.0 | ND | 20 | 50-150 | 23 | 25 | MS-05 |
| 1,2,4-Trimethylbenzene | 34.0 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | 11 | 25 | |
| 1,2-Dibromo-3-chloropropane | 53.7 | 5.0 | ug/kg | 50.0 | ND | 107 | 50-150 | 6 | 25 | |



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**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD1)** | **Source: 5I25014-01RE1** | | | Analyzed: 11/06/15 21:37 | | | | | | |
| 1,2-Dibromoethane (EDB) | 35.9 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | 16 | 25 | |
| 1,2-Dichloroethane | 44.0 | 5.0 | ug/kg | 50.0 | ND | 88 | 50-150 | 9 | 25 | |
| 1,2-Dichloropropane | 37.7 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | 13 | 25 | |
| 1,3,5-Trimethylbenzene | 35.4 | 5.0 | ug/kg | 50.0 | ND | 71 | 50-150 | 9 | 25 | |
| 1,3-Dichloropropane | 35.6 | 5.0 | ug/kg | 50.0 | ND | 71 | 50-150 | 14 | 25 | |
| 2,2-Dichloropropane | 47.0 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | 12 | 25 | |
| 2-Butanone | 74.4 | 5.0 | ug/kg | 50.0 | ND | 149 | 50-150 | 6 | 25 | |
| 2-Chloroethyl vinyl ether | 17.8 | 5.0 | ug/kg | 50.0 | ND | 36 | 50-150 | 14 | 25 | MS-05 |
| 2-Chlorotoluene | 43.9 | 5.0 | ug/kg | 50.0 | ND | 88 | 50-150 | 8 | 25 | |
| 2-Hexanone | 45.1 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | 8 | 25 | |
| 4-Chlorotoluene | 42.8 | 5.0 | ug/kg | 50.0 | ND | 86 | 50-150 | 8 | 25 | |
| 4-Methyl-2-pentanone | 50.1 | 5.0 | ug/kg | 50.0 | ND | 100 | 50-150 | 5 | 25 | |
| Acetone | 86.0 | 5.0 | ug/kg | 50.0 | 103 | NR | 50-150 | 12 | 25 | MS-05 |
| Acrolein | 13.7 | 5.0 | ug/kg | 50.0 | ND | 27 | 50-150 | 25 | 25 | MS-05 |
| Acrylonitrile | 63.9 | 5.0 | ug/kg | 50.0 | ND | 128 | 50-150 | 2 | 25 | |
| Benzene | 40.8 | 5.0 | ug/kg | 50.0 | ND | 82 | 30-134 | 15 | 25 | |
| Bromobenzene | 52.5 | 5.0 | ug/kg | 50.0 | ND | 105 | 50-150 | 10 | 25 | |
| Bromochloromethane | 47.4 | 5.0 | ug/kg | 50.0 | ND | 95 | 50-150 | 9 | 25 | |
| Bromodichloromethane | 36.5 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | 13 | 25 | |
| Bromoform | 33.6 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | 14 | 25 | |
| Bromomethane | 53.1 | 5.0 | ug/kg | 50.0 | ND | 106 | 50-150 | 13 | 25 | |
| Carbon tetrachloride | 41.9 | 5.0 | ug/kg | 50.0 | ND | 84 | 50-150 | 15 | 25 | |
| Chlorobenzene | 33.3 | 5.0 | ug/kg | 50.0 | ND | 67 | 3-135 | 13 | 25 | |
| Chloroethane | 50.0 | 5.0 | ug/kg | 50.0 | ND | 100 | 50-150 | 13 | 25 | |
| Chloroform | 41.7 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | 13 | 25 | |
| Chloromethane | 55.6 | 5.0 | ug/kg | 50.0 | ND | 111 | 50-150 | 9 | 25 | |
| cis-1,2-Dichloroethene | 43.4 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | 13 | 25 | |
| cis-1,3-Dichloropropene | 37.6 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | 14 | 25 | |
| Dibromochloromethane | 30.4 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | 15 | 25 | |
| Dibromomethane | 41.2 | 5.0 | ug/kg | 50.0 | ND | 82 | 50-150 | 10 | 25 | |
| Dichlorodifluoromethane (Freon 12) | 54.2 | 5.0 | ug/kg | 50.0 | ND | 108 | 50-150 | 16 | 25 | |
| Ethylbenzene | 30.4 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | 13 | 25 | |
| Hexachlorobutadiene | 8.99 | 5.0 | ug/kg | 50.0 | ND | 18 | 50-150 | 12 | 25 | MS-05 |
| Isopropylbenzene | 50.0 | 5.0 | ug/kg | 50.0 | ND | 100 | 50-150 | 7 | 25 | |
| m,p-Xylene | 29.2 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | 11 | 25 | |
| m-Dichlorobenzene | 31.4 | 5.0 | ug/kg | 50.0 | ND | 63 | 50-150 | 10 | 25 | |
| Methyl tert-butyl ether (MTBE) | 54.5 | 5.0 | ug/kg | 50.0 | ND | 109 | 50-150 | 5 | 25 | |
| Methylene chloride | 63.3 | 5.0 | ug/kg | 50.0 | 38.3 | 50 | 50-150 | 8 | 25 | |
| Naphthalene | 14.3 | 5.0 | ug/kg | 50.0 | ND | 29 | 50-150 | 42 | 25 | MS-05 |



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**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 21:37 | | | | | | |
| n-Butylbenzene | 23.5 | 5.0 | ug/kg | 50.0 | ND | 47 | 50-150 | 5 | 25 | MS-05 |
| n-Propylbenzene | 42.7 | 5.0 | ug/kg | 50.0 | ND | 85 | 50-150 | 7 | 25 | |
| o-Dichlorobenzene | 29.1 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | 10 | 25 | |
| o-Xylene | 25.1 | 5.0 | ug/kg | 50.0 | ND | 50 | 50-150 | 14 | 25 | |
| p-Dichlorobenzene | 29.9 | 5.0 | ug/kg | 50.0 | ND | 60 | 50-150 | 10 | 25 | |
| p-Isopropyltoluene | 27.9 | 5.0 | ug/kg | 50.0 | ND | 56 | 50-150 | 7 | 25 | |
| sec-Butylbenzene | 35.1 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | 7 | 25 | |
| Styrene | 25.7 | 5.0 | ug/kg | 50.0 | ND | 51 | 50-150 | 15 | 25 | |
| tert-Butylbenzene | 35.8 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | 9 | 25 | |
| Tetrachloroethene | 24.3 | 5.0 | ug/kg | 50.0 | ND | 49 | 50-150 | 15 | 25 | MS-05 |
| Toluene | 28.8 | 5.0 | ug/kg | 50.0 | ND | 58 | 11-140 | 16 | 25 | |
| trans-1,2-Dichloroethene | 43.8 | 5.0 | ug/kg | 50.0 | ND | 88 | 50-150 | 14 | 25 | |
| trans-1,3-Dichloropropene | 36.6 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | 14 | 25 | |
| Trichloroethene | 34.4 | 5.0 | ug/kg | 50.0 | ND | 69 | 10-144 | 17 | 25 | |
| Trichlorofluoromethane | 49.6 | 5.0 | ug/kg | 50.0 | ND | 99 | 50-150 | 18 | 25 | |
| Vinyl chloride | 52.1 | 5.0 | ug/kg | 50.0 | ND | 104 | 50-150 | 14 | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *66.9* | | *ug/kg* | *50.0* | | *134* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *35.4* | | *ug/kg* | *50.0* | | *71* | *85-116* | | | *S-04* |
| *Surr: Dibromofluoromethane* | *57.7* | | *ug/kg* | *50.0* | | *115* | *84-120* | | | |
| *Surr: Toluene-d8* | *42.5* | | *ug/kg* | *50.0* | | *85* | *82-120* | | | |
| **Matrix Spike Dup (W5K0373-MSD2)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 17:55 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 43.6 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | 26 | 25 | MS-05 |
| 1,1,1-Trichloroethane | 46.8 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | 16 | 25 | |
| 1,1,2,2-Tetrachloroethane | 45.1 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | 35 | 25 | MS-05 |
| 1,1,2-Trichloroethane | 46.2 | 5.0 | ug/kg | 50.0 | ND | 92 | 50-150 | 30 | 25 | MS-05 |
| 1,1-Dichloroethane | 45.2 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | 18 | 25 | |
| 1,1-Dichloroethene | 41.0 | 5.0 | ug/kg | 50.0 | ND | 82 | 38-139 | 13 | 25 | |
| 1,1-Dichloropropene | 44.8 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | 14 | 25 | |
| 1,2,3-Trichlorobenzene | 32.9 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | 30 | 25 | MS-05 |
| 1,2,3-Trichloropropane | 43.7 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | 31 | 25 | MS-05 |
| 1,2,4-Trichlorobenzene | 33.6 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | 27 | 25 | MS-05 |
| 1,2,4-Trimethylbenzene | 40.3 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | 19 | 25 | |
| 1,2-Dibromo-3-chloropropane | 44.2 | 5.0 | ug/kg | 50.0 | ND | 88 | 50-150 | 41 | 25 | MS-05 |
| 1,2-Dibromoethane (EDB) | 50.2 | 5.0 | ug/kg | 50.0 | ND | 100 | 50-150 | 32 | 25 | MS-05 |
| 1,2-Dichloroethane | 46.8 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | 26 | 25 | MS-05 |
| 1,2-Dichloropropane | 46.5 | 5.0 | ug/kg | 50.0 | ND | 93 | 50-150 | 21 | 25 | |
| 1,3,5-Trimethylbenzene | 39.1 | 5.0 | ug/kg | 50.0 | ND | 78 | 50-150 | 15 | 25 | |
| 1,3-Dichloropropane | 48.2 | 5.0 | ug/kg | 50.0 | ND | 96 | 50-150 | 30 | 25 | MS-05 |
| 2,2-Dichloropropane | 48.8 | 5.0 | ug/kg | 50.0 | ND | 98 | 50-150 | 17 | 25 | |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD2)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 17:55 | | | | | | |
| 2-Butanone | 125 | 5.0 | ug/kg | 50.0 | ND | 251 | 50-150 | NR | 25 | MS-05 |
| 2-Chloroethyl vinyl ether | 29.9 | 5.0 | ug/kg | 50.0 | ND | 60 | 50-150 | 30 | 25 | MS-05 |
| 2-Chlorotoluene | 42.6 | 5.0 | ug/kg | 50.0 | ND | 85 | 50-150 | 19 | 25 | |
| 2-Hexanone | 46.5 | 5.0 | ug/kg | 50.0 | ND | 93 | 50-150 | 34 | 25 | MS-05 |
| 4-Chlorotoluene | 43.2 | 5.0 | ug/kg | 50.0 | ND | 86 | 50-150 | 22 | 25 | |
| 4-Methyl-2-pentanone | 77.7 | 5.0 | ug/kg | 50.0 | ND | 155 | 50-150 | 42 | 25 | MS-05 |
| Acetone | 55.6 | 5.0 | ug/kg | 50.0 | 186 | NR | 50-150 | 40 | 25 | MS-05 |
| Acrolein | 6.63 | 5.0 | ug/kg | 50.0 | ND | 13 | 50-150 | 100 | 25 | MS-05 |
| Acrylonitrile | 46.2 | 5.0 | ug/kg | 50.0 | ND | 92 | 50-150 | 31 | 25 | MS-05 |
| Benzene | 45.9 | 5.0 | ug/kg | 50.0 | ND | 92 | 30-134 | 18 | 25 | |
| Bromobenzene | 41.4 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | 26 | 25 | MS-05 |
| Bromochloromethane | 49.2 | 5.0 | ug/kg | 50.0 | ND | 98 | 50-150 | 28 | 25 | MS-05 |
| Bromodichloromethane | 48.6 | 5.0 | ug/kg | 50.0 | ND | 97 | 50-150 | 26 | 25 | MS-05 |
| Bromoform | 44.4 | 5.0 | ug/kg | 50.0 | ND | 89 | 50-150 | 35 | 25 | MS-05 |
| Bromomethane | 45.3 | 5.0 | ug/kg | 50.0 | ND | 91 | 50-150 | 18 | 25 | |
| Carbon tetrachloride | 46.9 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | 15 | 25 | |
| Chlorobenzene | 43.9 | 5.0 | ug/kg | 50.0 | ND | 88 | 3-135 | 21 | 25 | |
| Chloroethane | 42.2 | 5.0 | ug/kg | 50.0 | ND | 84 | 50-150 | 16 | 25 | |
| Chloroform | 45.6 | 5.0 | ug/kg | 50.0 | ND | 91 | 50-150 | 21 | 25 | |
| Chloromethane | 44.3 | 5.0 | ug/kg | 50.0 | ND | 89 | 50-150 | 17 | 25 | |
| cis-1,2-Dichloroethene | 54.0 | 5.0 | ug/kg | 50.0 | ND | 108 | 50-150 | 141 | 25 | MS-05 |
| cis-1,3-Dichloropropene | 50.3 | 5.0 | ug/kg | 50.0 | ND | 101 | 50-150 | 26 | 25 | MS-05 |
| Dibromochloromethane | 51.0 | 5.0 | ug/kg | 50.0 | ND | 102 | 50-150 | 33 | 25 | MS-05 |
| Dibromomethane | 47.0 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | 30 | 25 | MS-05 |
| Dichlorodifluoromethane (Freon 12) | 45.0 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | 12 | 25 | |
| Ethylbenzene | 41.8 | 5.0 | ug/kg | 50.0 | ND | 84 | 50-150 | 18 | 25 | |
| Hexachlorobutadiene | 26.0 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | 4 | 25 | |
| Isopropylbenzene | 38.7 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | 15 | 25 | |
| m,p-Xylene | 44.0 | 5.0 | ug/kg | 50.0 | ND | 88 | 50-150 | 18 | 25 | |
| m-Dichlorobenzene | 41.9 | 5.0 | ug/kg | 50.0 | ND | 84 | 50-150 | 23 | 25 | |
| Methyl tert-butyl ether (MTBE) | 47.8 | 5.0 | ug/kg | 50.0 | ND | 96 | 50-150 | 34 | 25 | MS-05 |
| Methylene chloride | 51.6 | 5.0 | ug/kg | 50.0 | 6.15 | 91 | 50-150 | 22 | 25 | |
| Naphthalene | 35.6 | 5.0 | ug/kg | 50.0 | ND | 71 | 50-150 | 42 | 25 | MS-05 |
| n-Butylbenzene | 36.2 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | 9 | 25 | |
| n-Propylbenzene | 38.4 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | 14 | 25 | |
| o-Dichlorobenzene | 42.6 | 5.0 | ug/kg | 50.0 | ND | 85 | 50-150 | 27 | 25 | MS-05 |
| o-Xylene | 41.4 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | 21 | 25 | |
| p-Dichlorobenzene | 41.4 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | 25 | 25 | |
| p-Isopropyltoluene | 36.4 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | 11 | 25 | |



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Law Offices of McMurtrey, Hartsock & Worth
2001 22nd Street, Suite 100
Bakersfield, CA 93301 CA, 93301

**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD2)** | **Source: 5J02045-01RE1** | | | Analyzed: 11/06/15 17:55 | | | | | | |
| sec-Butylbenzene | 38.3 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | 10 | 25 | |
| Styrene | 44.4 | 5.0 | ug/kg | 50.0 | ND | 89 | 50-150 | 24 | 25 | |
| tert-Butylbenzene | 37.8 | 5.0 | ug/kg | 50.0 | ND | 76 | 50-150 | 12 | 25 | |
| Tetrachloroethene | 41.6 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | 15 | 25 | |
| Toluene | 44.0 | 5.0 | ug/kg | 50.0 | ND | 88 | 11-140 | 18 | 25 | |
| trans-1,2-Dichloroethene | 42.4 | 5.0 | ug/kg | 50.0 | ND | 85 | 50-150 | 15 | 25 | |
| trans-1,3-Dichloropropene | 51.6 | 5.0 | ug/kg | 50.0 | ND | 103 | 50-150 | 30 | 25 | MS-05 |
| Trichloroethene | 43.7 | 5.0 | ug/kg | 50.0 | ND | 87 | 10-144 | 16 | 25 | |
| Trichlorofluoromethane | 43.4 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | 12 | 25 | |
| Vinyl chloride | 42.8 | 5.0 | ug/kg | 50.0 | ND | 86 | 50-150 | 15 | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *55.7* | | *ug/kg* | *50.0* | | *111* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *51.2* | | *ug/kg* | *50.0* | | *102* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *52.6* | | *ug/kg* | *50.0* | | *105* | *84-120* | | | |
| *Surr: Toluene-d8* | *52.7* | | *ug/kg* | *50.0* | | *105* | *82-120* | | | |
| **Matrix Spike Dup (W5K0373-MSD3)** | **Source: 5J02046-01RE1** | | | Analyzed: 11/06/15 22:40 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 16.5 | 5.0 | ug/kg | 50.0 | ND | 33 | 50-150 | 8 | 25 | MS-05 |
| 1,1,1-Trichloroethane | 31.7 | 5.0 | ug/kg | 50.0 | ND | 63 | 50-150 | 17 | 25 | |
| 1,1,2,2-Tetrachloroethane | 13.6 | 5.0 | ug/kg | 50.0 | ND | 27 | 50-150 | 27 | 25 | MS-05 |
| 1,1,2-Trichloroethane | 17.0 | 5.0 | ug/kg | 50.0 | ND | 34 | 50-150 | 3 | 25 | MS-05 |
| 1,1-Dichloroethane | 30.2 | 5.0 | ug/kg | 50.0 | ND | 60 | 50-150 | 4 | 25 | |
| 1,1-Dichloroethene | 31.4 | 5.0 | ug/kg | 50.0 | ND | 63 | 38-139 | 12 | 25 | |
| 1,1-Dichloropropene | 29.3 | 5.0 | ug/kg | 50.0 | ND | 59 | 50-150 | 18 | 25 | |
| 1,2,3-Trichlorobenzene | 10.0 | 5.0 | ug/kg | 50.0 | ND | 20 | 50-150 | 27 | 25 | MS-05 |
| 1,2,3-Trichloropropane | 14.5 | 5.0 | ug/kg | 50.0 | ND | 29 | 50-150 | 29 | 25 | MS-05 |
| 1,2,4-Trichlorobenzene | 10.8 | 5.0 | ug/kg | 50.0 | ND | 22 | 50-150 | 22 | 25 | MS-05 |
| 1,2,4-Trimethylbenzene | 19.1 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | 9 | 25 | MS-05 |
| 1,2-Dibromo-3-chloropropane | 13.4 | 5.0 | ug/kg | 50.0 | ND | 27 | 50-150 | 19 | 25 | MS-05 |
| 1,2-Dibromoethane (EDB) | 16.4 | 5.0 | ug/kg | 50.0 | ND | 33 | 50-150 | 8 | 25 | MS-05 |
| 1,2-Dichloroethane | 24.7 | 5.0 | ug/kg | 50.0 | ND | 49 | 50-150 | 6 | 25 | MS-05 |
| 1,2-Dichloropropane | 22.8 | 5.0 | ug/kg | 50.0 | ND | 46 | 50-150 | 3 | 25 | MS-05 |
| 1,3,5-Trimethylbenzene | 21.3 | 5.0 | ug/kg | 50.0 | ND | 43 | 50-150 | 13 | 25 | MS-05 |
| 1,3-Dichloropropane | 17.7 | 5.0 | ug/kg | 50.0 | ND | 35 | 50-150 | 5 | 25 | MS-05 |
| 2,2-Dichloropropane | 34.4 | 5.0 | ug/kg | 50.0 | ND | 69 | 50-150 | 11 | 25 | |
| 2-Butanone | 33.2 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | 6 | 25 | |
| 2-Chloroethyl vinyl ether | 9.57 | 5.0 | ug/kg | 50.0 | ND | 19 | 50-150 | 12 | 25 | MS-05 |
| 2-Chlorotoluene | 19.7 | 5.0 | ug/kg | 50.0 | ND | 39 | 50-150 | 8 | 25 | MS-05 |
| 2-Hexanone | 26.2 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | 12 | 25 | |
| 4-Chlorotoluene | 18.5 | 5.0 | ug/kg | 50.0 | ND | 37 | 50-150 | 7 | 25 | MS-05 |
| 4-Methyl-2-pentanone | 32.5 | 5.0 | ug/kg | 50.0 | ND | 65 | 50-150 | 22 | 25 | |



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Bakersfield, CA 93301 CA, 93301

**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD3)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/06/15 22:40 | | | | | | |
| Acetone | 190 | 5.0 | ug/kg | 50.0 | 947 | NR | 50-150 | 9 | 25 | MS-05 |
| Acrolein | 4.50 | 5.0 | ug/kg | 50.0 | ND | 9 | 50-150 | NR | 25 | MS-05 |
| Acrylonitrile | 38.6 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | 11 | 25 | |
| Benzene | 26.0 | 5.0 | ug/kg | 50.0 | ND | 52 | 30-134 | 9 | 25 | |
| Bromobenzene | 14.8 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | 4 | 25 | MS-05 |
| Bromochloromethane | 26.1 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | 8 | 25 | |
| Bromodichloromethane | 21.1 | 5.0 | ug/kg | 50.0 | ND | 42 | 50-150 | 4 | 25 | MS-05 |
| Bromoform | 12.8 | 5.0 | ug/kg | 50.0 | ND | 26 | 50-150 | 4 | 25 | MS-05 |
| Bromomethane | 15.6 | 5.0 | ug/kg | 50.0 | ND | 31 | 50-150 | 26 | 25 | MS-05 |
| Carbon tetrachloride | 33.2 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | 17 | 25 | |
| Chlorobenzene | 17.2 | 5.0 | ug/kg | 50.0 | ND | 34 | 3-135 | 15 | 25 | |
| Chloroethane | 34.7 | 5.0 | ug/kg | 50.0 | ND | 69 | 50-150 | 1 | 25 | |
| Chloroform | 25.8 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | 4 | 25 | |
| Chloromethane | 30.8 | 5.0 | ug/kg | 50.0 | ND | 62 | 50-150 | 0.4 | 25 | |
| cis-1,2-Dichloroethene | 30.8 | 5.0 | ug/kg | 50.0 | ND | 62 | 50-150 | 3 | 25 | |
| cis-1,3-Dichloropropene | 20.5 | 5.0 | ug/kg | 50.0 | ND | 41 | 50-150 | 1 | 25 | MS-05 |
| Dibromochloromethane | 16.0 | 5.0 | ug/kg | 50.0 | ND | 32 | 50-150 | 0.1 | 25 | MS-05 |
| Dibromomethane | 20.4 | 5.0 | ug/kg | 50.0 | ND | 41 | 50-150 | 9 | 25 | MS-05 |
| Dichlorodifluoromethane (Freon 12) | 38.4 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | 11 | 25 | |
| Ethylbenzene | 20.2 | 5.0 | ug/kg | 50.0 | ND | 40 | 50-150 | 21 | 25 | MS-05 |
| Hexachlorobutadiene | 15.1 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | 29 | 25 | MS-05 |
| Isopropylbenzene | 24.4 | 5.0 | ug/kg | 50.0 | ND | 49 | 50-150 | 5 | 25 | MS-05 |
| m,p-Xylene | 20.4 | 5.0 | ug/kg | 50.0 | ND | 41 | 50-150 | 22 | 25 | MS-05 |
| m-Dichlorobenzene | 16.1 | 5.0 | ug/kg | 50.0 | ND | 32 | 50-150 | 6 | 25 | MS-05 |
| Methyl tert-butyl ether (MTBE) | 33.8 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | 11 | 25 | |
| Methylene chloride | 36.5 | 5.0 | ug/kg | 50.0 | 16.7 | 40 | 50-150 | 5 | 25 | MS-05 |
| Naphthalene | 8.30 | 5.0 | ug/kg | 50.0 | ND | 17 | 50-150 | 10 | 25 | MS-05 |
| n-Butylbenzene | 21.9 | 5.0 | ug/kg | 50.0 | ND | 44 | 50-150 | 14 | 25 | MS-05 |
| n-Propylbenzene | 23.2 | 5.0 | ug/kg | 50.0 | ND | 46 | 50-150 | 10 | 25 | MS-05 |
| o-Dichlorobenzene | 14.1 | 5.0 | ug/kg | 50.0 | ND | 28 | 50-150 | 2 | 25 | MS-05 |
| o-Xylene | 16.9 | 5.0 | ug/kg | 50.0 | ND | 34 | 50-150 | 20 | 25 | MS-05 |
| p-Dichlorobenzene | 14.8 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | 5 | 25 | MS-05 |
| p-Isopropyltoluene | 22.4 | 5.0 | ug/kg | 50.0 | ND | 45 | 50-150 | 11 | 25 | MS-05 |
| sec-Butylbenzene | 26.1 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | 12 | 25 | |
| Styrene | 15.2 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | 17 | 25 | MS-05 |
| tert-Butylbenzene | 24.0 | 5.0 | ug/kg | 50.0 | ND | 48 | 50-150 | 10 | 25 | MS-05 |
| Tetrachloroethene | 23.9 | 5.0 | ug/kg | 50.0 | ND | 48 | 50-150 | 23 | 25 | MS-05 |
| Toluene | 21.5 | 5.0 | ug/kg | 50.0 | ND | 43 | 11-140 | 19 | 25 | |
| trans-1,2-Dichloroethene | 28.8 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | 7 | 25 | |



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Bakersfield, CA 93301 CA, 93301

**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD3)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/06/15 22:40 | | | | | | |
| trans-1,3-Dichloropropene | 18.9 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | 2 | 25 | MS-05 |
| Trichloroethene | 24.6 | 5.0 | ug/kg | 50.0 | ND | 49 | 10-144 | 17 | 25 | |
| Trichlorofluoromethane | 34.8 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | 16 | 25 | |
| Vinyl chloride | 36.2 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | 0.3 | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *58.7* | | *ug/kg* | *50.0* | | *117* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *49.1* | | *ug/kg* | *50.0* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *54.0* | | *ug/kg* | *50.0* | | *108* | *84-120* | | | |
| *Surr: Toluene-d8* | *51.0* | | *ug/kg* | *50.0* | | *102* | *82-120* | | | |



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**Date Received:** 09/25/15 11:34
**Date Reported:** 11/11/15 15:48

## Notes and Definitions

| | |
|---|---|
| **S-11** | Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate. |
| **S-04** | The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect. |
| **R-03** | The RPD is not applicable for result below the reporting limit (either ND or J value). |
| **R-02** | The RPD was outside of QC acceptance limits due to possible matrix interference. |
| **Q-ME** | Acceptable QC with marginal exceedance |
| **Q-12** | The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data. |
| **MS-05** | The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable. |
| **M-05** | Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution. |
| **M-02** | Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution. |
| **HC-02** | Hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel. |
| **C-3640** | The "GPC Cleanup" was performed to the sample. |
| **A-01** | Analyses are not controlled on RPD values from sample concentrations less than or at the reporting limit. |
| **ND** | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| **NR** | Not Reportable |
| **Dil** | Dilution |
| **dry** | Sample results reported on a dry weight basis |
| **RPD** | Relative Percent Difference |
| **% Rec** | Percent Recovery |
| **Sub** | Subcontracted analysis, original report available upon request |
| **MDL** | Method Detection Limit |
| **MDA** | Minimum Detectable Activity |
| **MRL** | Method Reporting Limit |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



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# CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| **Client:** | Law Offices of McMurtrey, Hartsock & Worth<br>2001 22nd Street, Suite 100<br>Bakersfield, CA 93301 CA, 93301 | **Report Date:** | 11/11/15 15:51 |
| | | **Received Date:** | 10/02/15 15:50 |
| | | **Turn Around:** | Normal |
| **Attention:** | Robert Hartsock | **Client Project:** | Cawelo Water District |
| **Phone:** | (661) 322-4417 | | |
| **Fax:** | - | | |
| **Work Order(s):** | 5J02045 | | |

**NELAC #4047-002 ORELAP ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143**

*The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.*

Dear Robert Hartsock :

Enclosed are the results of analyses for samples received 10/02/15 15:50 with the Chain of Custody document. The samples were received in good condition, at 7.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

**Case Narrative:**

The samples consisted of whole grapes collected in plastic bags. The samples were received intact and in good condition. Composite samples were prepared by collecting approximately fifty grams of fruit from each bag to provide a representative sample composition for each sample. The fruits were prepared by homogenizing the entire fruits in a steel-blade homogenizer for thirty seconds, transferred to a glass jar with a PTFE-lined lid, and stored at 4°C until analysis.

Being composed of organic matter, these samples inherently contain a large variety of volatile organic material, including but not limited to aldehydes, ketones, alcohols, and aromatics. Due to the extreme interferences observed in preliminary analyses of these samples, several dilutions were performed in order to satisfy the quality control measures required by some analytical methods. The volatile nature of the interferants means that the methods most affected by these matrix effects are those measuring volatile organics—EPA 8260 and EPA 8015. For this reason, two sets of samples were analyzed—one with a large dilution to satisfy the quality control requirements of each analytical method, and one with no dilution factor to determine the presence or absence of the analytes of interest. The diluted samples can be identified by the lab work order numbers 5J02045-01, -02, -03. The undiluted samples can be identified by work order numbers 5J02045-01RE1, -02RE1, -03RE1.

For both EPA 8015 GRO and EPA 8015 DRO, the results are determined by integrating an entire chromatographic range and summing all of the found compounds in that range. This approach will include all hydrocarbons that have a similar molecular weight (C6 to C10 for GRO, and C10-C23 for DRO), so it is susceptible to matrix interferences for samples high in organic matter. For all detections in these methods, the sample chromatogram is compared to a chromatogram of an authentic standard to confirm that the hydrocarbon pattern corresponds to the particular fuel. In the case of sample 5J02045, the compounds identified in the quantitation range for EPA 8015 DRO did not match the hydrocarbon pattern from the authentic standard, indicating that diesel fuel is not present in each sample. In the report, these samples are also tagged with the qualifier HC-02.

**Reviewed by:**

Agustin Pierri For Alfredo E. Pierri
Project Manager



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Lab ID | Matrix | Date Sampled |
|---|---|---|---|---|
| G1 Composite | Leo Raab | 5J02045-01 | Solid | 10/01/15 10:45 |
| Comments: Composite of G1D1, G1D2, G1D3, G1D4 and G1D5 | | | | |
| Comments: Composite of G1D1, G1D2, G1D3, G1D4 and G1D5 | | | | |
| G2 Composite | Leo Raab | 5J02045-02 | Solid | 10/01/15 09:48 |
| Comments: Composite of G2D1, G2D2, G2D3, G2D4 and G2D5 | | | | |
| Comments: Composite of G2D1, G2D2, G2D3, G2D4 and G2D5 | | | | |
| G3R1+2 | Leo Raab | 5J02045-03 | Solid | 10/01/15 11:42 |
| Comments: Composite of G3R1 and G3R2 | | | | |
| Comments: Composite of G3R1 and G3R2 | | | | |
| G4R1+2 | Leo Raab | 5J02045-04 | Solid | 10/01/15 12:03 |
| Comments: Composite of G4R1 and G4R2 | | | | |
| Comments: Composite of G4R1 and G4R2 | | | | |

## ANALYSES

Anions in solids by EPA 9056/300.0

Hydrocarbons by EPA 8015B

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Semivolatile Organics - Low Level by GC/MS SIM Mode

Volatile Organic Compounds by EPA Method 8260B



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-01 G1 Composite**

**Sampled:** 10/01/15 10:45 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G1D1, G1D2, G1D3, G1D4 and G1D5**

## Anions in solids by EPA 9056/300.0

Method: EPA 9056A Batch: W5J0909 Prepared: 10/17/15 11:00 Analyst: atl

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromide, Water Leachable | ND | 15 | mg/kg | 1 | 10/17/15 15:53 | |
| **Chloride, Water Leachable** | **40** | 15 | mg/kg | 1 | 10/17/15 15:53 | |
| **Fluoride, Water Leachable** | **32** | 12 | mg/kg | 4 | 10/17/15 17:19 | |
| Nitrate as NO3, Water Leachable | ND | 15 | mg/kg | 1 | 10/17/15 15:53 | |
| Sulfate as S, Water Leachable | ND | 59 | mg/kg | 4 | 10/17/15 17:19 | |

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5J0866 Prepared: 10/16/15 09:59 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 250 | mg/kg | 1 | 10/16/15 18:23 | |
| *Surr: 4-Bromofluorobenzene* | *90 %* | Conc:*112* | *54-139* | % | | | |

Method: EPA 8015B Batch: W5J1579 Prepared: 10/29/15 11:24 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics | ND | | 43 | mg/kg | 1 | 10/29/15 20:48 | |
| *Surr: n-Tetracosane* | *100 %* | Conc:*217* | *53-134* | % | | | |

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6010B Batch: W5J1375 Prepared: 10/26/15 14:52 Analyst: jck

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Boron, Total** | **8.2** | 4.0 | mg/kg | 1 | 10/28/15 15:14 | |
| **Calcium, Total** | **90** | 50 | mg/kg | 1 | 10/28/15 15:14 | |
| Iron, Total | ND | 20 | mg/kg | 1 | 10/28/15 15:14 | |
| Lithium, Total | ND | 5.0 | mg/kg | 1 | 10/28/15 15:14 | |
| Magnesium, Total | ND | 200 | mg/kg | 1 | 10/28/15 15:14 | |
| Manganese, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 15:14 | |
| **Potassium, Total** | **1500** | 200 | mg/kg | 1 | 10/28/15 15:14 | |
| Sodium, Total | ND | 400 | mg/kg | 1 | 10/28/15 15:14 | |

Method: EPA 6020A Batch: W5J1376 Prepared: 10/26/15 14:54 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Antimony, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 18:18 | |
| Arsenic, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 18:18 | |
| Barium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 18:18 | |
| Beryllium, Total | ND | 1.2 | mg/kg | 1 | 10/28/15 18:18 | |
| Cadmium, Total | ND | 0.80 | mg/kg | 1 | 10/28/15 18:18 | |
| Chromium, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 18:18 | |
| Cobalt, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 18:18 | |
| **Copper, Total** | **9.2** | 2.0 | mg/kg | 1 | 10/28/15 18:18 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-01 G1 Composite**

**Sampled:** 10/01/15 10:45 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G1D1, G1D2, G1D3, G1D4 and G1D5**

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6020A Batch: W5J1376 Prepared: 10/26/15 14:54 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Molybdenum, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 18:18 | |
| Selenium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 18:18 | |
| Silver, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 18:18 | |
| **Strontium, Total** | **2.0** | 2.0 | mg/kg | 1 | 10/28/15 18:18 | |
| Thallium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 18:18 | |
| Uranium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 18:18 | |
| Zinc, Total | ND | 20 | mg/kg | 1 | 10/28/15 18:18 | |

Method: EPA 6020B Batch: W5J1376 Prepared: 10/26/15 14:54 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Lead, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 18:18 | |
| Nickel, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 18:18 | |
| Vanadium, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 18:18 | |

## Semivolatile Organics - Low Level by GC/MS SIM Mode

Method: EPA 8270C SIM Batch: W5J0874 Prepared: 10/16/15 11:34 Analyst: mxw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| 2-Methylnaphthalene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| Acenaphthene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| Acenaphthylene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| Anthracene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| Benzo (a) anthracene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| Benzo (a) pyrene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| Benzo (b) fluoranthene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| Benzo (g,h,i) perylene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| Benzo (k) fluoranthene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| Chrysene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| Dibenzo (a,h) anthracene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| Fluoranthene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| Fluorene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| Indeno (1,2,3-cd) pyrene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| Naphthalene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| Phenanthrene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| Pyrene | ND | 68 | ug/kg | 1 | 10/30/15 00:52 | M-02 |
| *Surr: 2-Fluorobiphenyl* | *56 %* | Conc:*1260* *0.1-109* | % | | | *M-02* |
| *Surr: Nitrobenzene-d5* | *71 %* | Conc:*1590* *0.1-107* | % | | | *M-02* |
| *Surr: Terphenyl-d14* | *81 %* | Conc:*1820* *28-128* | % | | | *M-02* |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-01 G1 Composite**

**Sampled:** 10/01/15 10:45 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G1D1, G1D2, G1D3, G1D4 and G1D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5J1037 Prepared: 10/20/15 10:03 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 1,1,1-Trichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 1,1,2-Trichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 1,1-Dichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 1,1-Dichloroethene | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 1,1-Dichloropropene | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 1,2,3-Trichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 1,2-Dichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 1,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 1,3-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 2,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 2-Butanone | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 2-Chlorotoluene | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 2-Hexanone | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 4-Chlorotoluene | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| 4-Methyl-2-pentanone | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Acetone | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Acrolein | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Acrylonitrile | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Benzene | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Bromobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Bromochloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Bromodichloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Bromoform | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Bromomethane | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Carbon tetrachloride | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Chlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Chloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Chloroform | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Chloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| cis-1,2-Dichloroethene | ND | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-01 G1 Composite**

**Sampled:** 10/01/15 10:45 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G1D1, G1D2, G1D3, G1D4 and G1D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5J1037 Prepared: 10/20/15 10:03 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Dibromochloromethane | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Dibromomethane | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Ethylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Hexachlorobutadiene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Isopropylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| m,p-Xylene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| m-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Methylene chloride | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Naphthalene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| n-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| n-Propylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| o-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| o-Xylene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| p-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| p-Isopropyltoluene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| sec-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Styrene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| tert-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Tetrachloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Toluene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| trans-1,2-Dichloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| trans-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Trichloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Trichlorofluoromethane | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| Vinyl chloride | ND | | 1200 | ug/kg | 50 | 10/20/15 19:59 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *99 %* | Conc:*240* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *99 %* | Conc:*239* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *96 %* | Conc:*232* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *102 %* | Conc:*245* | *82-120* | % | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-01RE1 G1 Composite**

**Sampled:** 10/01/15 10:45 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G1D1, G1D2, G1D3, G1D4 and G1D5**

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5K0050 Prepared: 10/28/15 09:22 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics** | **6.7** | | 0.50 | mg/kg | 1 | 10/28/15 13:19 | HC-02 |
| *Surr: 4-Bromofluorobenzene* | *74 %* | Conc:*0.185* | *54-139* | % | | | |

Method: EPA 8015B Batch: W5K0345 Prepared: 10/30/15 17:00 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Diesel Range Organics** | **57** | | 9.9 | mg/kg | 1 | 10/31/15 00:20 | HC-02 |
| *Surr: n-Tetracosane* | *102 %* | Conc:*50.7* | *53-134* | % | | | |

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| **Acetone** | **190** | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Acrolein | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Benzene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-01RE1 G1 Composite**

**Sampled:** 10/01/15 10:45 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G1D1, G1D2, G1D3, G1D4 and G1D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromobenzene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Bromoform | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Bromomethane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Chloroethane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Chloroform | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Chloromethane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Methylene chloride | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Naphthalene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| o-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Styrene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Toluene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | 1 | 11/06/15 08:05 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-01RE1 G1 Composite**

**Sampled:** 10/01/15 10:45 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G1D1, G1D2, G1D3, G1D4 and G1D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| *Surr: 1,2-Dichloroethane-d4* | *105 %* | Conc:*253* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *99 %* | Conc:*237* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *98 %* | Conc:*236* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *105 %* | Conc:*253* | *82-120* | % | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-02 G2 Composite**

**Sampled:** 10/01/15 09:48 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G2D1, G2D2, G2D3, G2D4 and G2D5**

## Anions in solids by EPA 9056/300.0

Method: EPA 9056A Batch: W5J0909 Prepared: 10/17/15 11:00 Analyst: atl

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromide, Water Leachable | ND | 15 | mg/kg | 1 | 10/17/15 18:13 | |
| **Chloride, Water Leachable** | **50** | 15 | mg/kg | 1 | 10/17/15 18:13 | |
| **Fluoride, Water Leachable** | **34** | 12 | mg/kg | 4 | 10/17/15 18:29 | |
| Nitrate as NO3, Water Leachable | ND | 15 | mg/kg | 1 | 10/17/15 18:13 | |
| Sulfate as S, Water Leachable | ND | 59 | mg/kg | 4 | 10/17/15 18:29 | |

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5J0866 Prepared: 10/16/15 09:59 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 250 | mg/kg | 1 | 10/16/15 19:22 | |
| *Surr: 4-Bromofluorobenzene* | *94 %* | Conc:*118* | *54-139* | % | | | |

Method: EPA 8015B Batch: W5J1579 Prepared: 10/29/15 11:24 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics | ND | | 42 | mg/kg | 1 | 10/29/15 21:55 | |
| *Surr: n-Tetracosane* | *101 %* | Conc:*210* | *53-134* | % | | | |

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6010B Batch: W5J1375 Prepared: 10/26/15 14:52 Analyst: jck

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Boron, Total** | **7.3** | 4.0 | mg/kg | 1 | 10/28/15 15:19 | |
| **Calcium, Total** | **97** | 50 | mg/kg | 1 | 10/28/15 15:19 | |
| Iron, Total | ND | 20 | mg/kg | 1 | 10/28/15 15:19 | |
| Lithium, Total | ND | 5.0 | mg/kg | 1 | 10/28/15 15:19 | |
| Magnesium, Total | ND | 200 | mg/kg | 1 | 10/28/15 15:19 | |
| Manganese, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 15:19 | |
| **Potassium, Total** | **1800** | 200 | mg/kg | 1 | 10/28/15 15:19 | |
| Sodium, Total | ND | 400 | mg/kg | 1 | 10/28/15 15:19 | |

Method: EPA 6020A Batch: W5J1376 Prepared: 10/26/15 14:54 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Antimony, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:01 | |
| Arsenic, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:01 | |
| Barium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:01 | |
| Beryllium, Total | ND | 1.2 | mg/kg | 1 | 10/28/15 19:01 | |
| Cadmium, Total | ND | 0.79 | mg/kg | 1 | 10/28/15 19:01 | |
| Chromium, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 19:01 | |
| Cobalt, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:01 | |
| **Copper, Total** | **3.6** | 2.0 | mg/kg | 1 | 10/28/15 19:01 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-02 G2 Composite**

**Sampled:** 10/01/15 09:48 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G2D1, G2D2, G2D3, G2D4 and G2D5**

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6020A Batch: W5J1376 Prepared: 10/26/15 14:54 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Molybdenum, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:01 | |
| Selenium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:01 | |
| Silver, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:01 | |
| Strontium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:01 | |
| Thallium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:01 | |
| Uranium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:01 | |
| Zinc, Total | ND | 20 | mg/kg | 1 | 10/28/15 19:01 | |

Method: EPA 6020B Batch: W5J1376 Prepared: 10/26/15 14:54 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Lead, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:01 | |
| Nickel, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 19:01 | |
| Vanadium, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 19:01 | |

## Semivolatile Organics - Low Level by GC/MS SIM Mode

Method: EPA 8270C SIM Batch: W5J0874 Prepared: 10/16/15 11:34 Analyst: mxw

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| 2-Methylnaphthalene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| Acenaphthene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| Acenaphthylene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| Anthracene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| Benzo (a) anthracene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| Benzo (a) pyrene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| Benzo (b) fluoranthene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| Benzo (g,h,i) perylene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| Benzo (k) fluoranthene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| Chrysene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| Dibenzo (a,h) anthracene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| Fluoranthene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| Fluorene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| Indeno (1,2,3-cd) pyrene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| Naphthalene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| Phenanthrene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| Pyrene | ND | | 73 | ug/kg | 1 | 10/30/15 02:04 | M-02 |
| *Surr: 2-Fluorobiphenyl* | *50 %* | Conc:*1220* | *0.1-109* | % | | | *M-02* |
| *Surr: Nitrobenzene-d5* | *63 %* | Conc:*1530* | *0.1-107* | % | | | *M-02* |
| *Surr: Terphenyl-d14* | *74 %* | Conc:*1820* | *28-128* | % | | | *M-02* |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-02 G2 Composite**

**Sampled:** 10/01/15 09:48 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G2D1, G2D2, G2D3, G2D4 and G2D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5J1037 Prepared: 10/20/15 10:03 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 1,1,1-Trichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 1,1,2-Trichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 1,1-Dichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 1,1-Dichloroethene | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 1,1-Dichloropropene | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 1,2,3-Trichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 1,2-Dichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 1,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 1,3-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 2,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 2-Butanone | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 2-Chlorotoluene | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 2-Hexanone | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 4-Chlorotoluene | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| 4-Methyl-2-pentanone | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Acetone | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Acrolein | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Acrylonitrile | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Benzene | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Bromobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Bromochloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Bromodichloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Bromoform | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Bromomethane | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Carbon tetrachloride | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Chlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Chloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Chloroform | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Chloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| cis-1,2-Dichloroethene | ND | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-02 G2 Composite**

**Sampled:** 10/01/15 09:48 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G2D1, G2D2, G2D3, G2D4 and G2D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5J1037 Prepared: 10/20/15 10:03 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Dibromochloromethane | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Dibromomethane | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Ethylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Hexachlorobutadiene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Isopropylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| m,p-Xylene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| m-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Methylene chloride | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Naphthalene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| n-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| n-Propylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| o-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| o-Xylene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| p-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| p-Isopropyltoluene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| sec-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Styrene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| tert-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Tetrachloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Toluene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| trans-1,2-Dichloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| trans-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Trichloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Trichlorofluoromethane | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| Vinyl chloride | ND | | 1200 | ug/kg | 50 | 10/20/15 21:02 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *100 %* | Conc:*237* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *99 %* | Conc:*234* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *97 %* | Conc:*229* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *100 %* | Conc:*237* | *82-120* | % | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-02RE1 G2 Composite**

**Sampled:** 10/01/15 09:48 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G2D1, G2D2, G2D3, G2D4 and G2D5**

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5K0050 Prepared: 10/28/15 09:22 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics** | **14** | | 1.0 | mg/kg | 1 | 10/28/15 19:13 | HC-02 |
| *Surr: 4-Bromofluorobenzene* | *86 %* | Conc:*0.430* | *54-139* | % | | | |

Method: EPA 8015B Batch: W5K0345 Prepared: 10/30/15 17:00 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Diesel Range Organics** | **53** | | 9.5 | mg/kg | 1 | 10/31/15 00:53 | HC-02 |
| *Surr: n-Tetracosane* | *102 %* | Conc:*48.6* | *53-134* | % | | | |

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| **Acetone** | **210** | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Acrolein | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Benzene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-02RE1 G2 Composite**

**Sampled:** 10/01/15 09:48 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G2D1, G2D2, G2D3, G2D4 and G2D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromobenzene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Bromoform | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Bromomethane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Chloroethane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Chloroform | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Chloromethane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Methylene chloride | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Naphthalene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| o-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Styrene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Toluene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | 1 | 11/06/15 09:11 | M-05 |



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**Date Received:** 10/02/15 15:50
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**5J02045-02RE1 G2 Composite**

**Sampled:** 10/01/15 09:48 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G2D1, G2D2, G2D3, G2D4 and G2D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| *Surr: 1,2-Dichloroethane-d4* | *105 %* | Conc:*250* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *98 %* | Conc:*234* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *97 %* | Conc:*232* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *105 %* | Conc:*250* | *82-120* | % | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-03 G3R1+2**

**Sampled:** 10/01/15 11:42 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G3R1 and G3R2**

## Anions in solids by EPA 9056/300.0

Method: EPA 9056A Batch: W5J0909 Prepared: 10/17/15 11:00 Analyst: atl

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromide, Water Leachable | ND | 15 | mg/kg | 1 | 10/17/15 20:06 | |
| **Chloride, Water Leachable** | **40** | 15 | mg/kg | 1 | 10/17/15 20:06 | |
| **Fluoride, Water Leachable** | **35** | 12 | mg/kg | 4 | 10/17/15 20:23 | |
| Nitrate as NO3, Water Leachable | ND | 15 | mg/kg | 1 | 10/17/15 20:06 | |
| Sulfate as S, Water Leachable | ND | 60 | mg/kg | 4 | 10/17/15 20:23 | |

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5J0866 Prepared: 10/16/15 09:59 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 250 | mg/kg | 1 | 10/16/15 22:19 | |
| *Surr: 4-Bromofluorobenzene* | *88 %* | Conc:*110* | *54-139* | % | | | |

Method: EPA 8015B Batch: W5J1579 Prepared: 10/29/15 11:24 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics | ND | | 50 | mg/kg | 1 | 10/29/15 23:02 | |
| *Surr: n-Tetracosane* | *99 %* | Conc:*244* | *53-134* | % | | | |

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6010B Batch: W5J1375 Prepared: 10/26/15 14:52 Analyst: jck

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Boron, Total** | **5.2** | 4.0 | mg/kg | 1 | 10/28/15 15:24 | |
| **Calcium, Total** | **88** | 50 | mg/kg | 1 | 10/28/15 15:24 | |
| Iron, Total | ND | 20 | mg/kg | 1 | 10/28/15 15:24 | |
| Lithium, Total | ND | 5.0 | mg/kg | 1 | 10/28/15 15:24 | |
| Magnesium, Total | ND | 200 | mg/kg | 1 | 10/28/15 15:24 | |
| Manganese, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 15:24 | |
| **Potassium, Total** | **2400** | 200 | mg/kg | 1 | 10/28/15 15:24 | |
| Sodium, Total | ND | 400 | mg/kg | 1 | 10/28/15 15:24 | |

Method: EPA 6020A Batch: W5J1376 Prepared: 10/26/15 14:54 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Antimony, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:16 | |
| Arsenic, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:16 | |
| Barium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:16 | |
| Beryllium, Total | ND | 1.2 | mg/kg | 1 | 10/28/15 19:16 | |
| Cadmium, Total | ND | 0.80 | mg/kg | 1 | 10/28/15 19:16 | |
| Chromium, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 19:16 | |
| Cobalt, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:16 | |
| **Copper, Total** | **8.0** | 2.0 | mg/kg | 1 | 10/28/15 19:16 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-03 G3R1+2**

**Sampled:** 10/01/15 11:42 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G3R1 and G3R2**

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6020A Batch: W5J1376 Prepared: 10/26/15 14:54 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Molybdenum, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:16 | |
| Selenium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:16 | |
| Silver, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:16 | |
| **Strontium, Total** | **2.4** | 2.0 | mg/kg | 1 | 10/28/15 19:16 | |
| Thallium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:16 | |
| Uranium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:16 | |
| Zinc, Total | ND | 20 | mg/kg | 1 | 10/28/15 19:16 | |

Method: EPA 6020B Batch: W5J1376 Prepared: 10/26/15 14:54 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Lead, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 19:16 | |
| Nickel, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 19:16 | |
| Vanadium, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 19:16 | |

## Semivolatile Organics - Low Level by GC/MS SIM Mode

Method: EPA 8270C SIM Batch: W5J0874 Prepared: 10/16/15 11:34 Analyst: mxw

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| 2-Methylnaphthalene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| Acenaphthene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| Acenaphthylene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| Anthracene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| Benzo (a) anthracene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| Benzo (a) pyrene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| Benzo (b) fluoranthene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| Benzo (g,h,i) perylene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| Benzo (k) fluoranthene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| Chrysene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| Dibenzo (a,h) anthracene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| Fluoranthene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| Fluorene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| Indeno (1,2,3-cd) pyrene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| Naphthalene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| Phenanthrene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| Pyrene | ND | | 74 | ug/kg | 1 | 10/30/15 03:15 | M-02 |
| *Surr: 2-Fluorobiphenyl* | *52 %* | Conc:*1290* | *0.1-109* | % | | | *M-02* |
| *Surr: Nitrobenzene-d5* | *73 %* | Conc:*1810* | *0.1-107* | % | | | *M-02* |
| *Surr: Terphenyl-d14* | *83 %* | Conc:*2060* | *28-128* | % | | | *M-02* |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-03 G3R1+2**

**Sampled:** 10/01/15 11:42 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G3R1 and G3R2**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5J1037 Prepared: 10/20/15 10:03 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 1,1,1-Trichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 1,1,2-Trichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 1,1-Dichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 1,1-Dichloroethene | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 1,1-Dichloropropene | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 1,2,3-Trichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 1,2-Dichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 1,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 1,3-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 2,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 2-Butanone | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 2-Chlorotoluene | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 2-Hexanone | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 4-Chlorotoluene | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| 4-Methyl-2-pentanone | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Acetone | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Acrolein | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Acrylonitrile | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Benzene | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Bromobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Bromochloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Bromodichloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Bromoform | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Bromomethane | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Carbon tetrachloride | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Chlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Chloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Chloroform | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Chloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| cis-1,2-Dichloroethene | ND | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |



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**5J02045-03 G3R1+2**

**Sampled:** 10/01/15 11:42 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G3R1 and G3R2**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5J1037 Prepared: 10/20/15 10:03 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Dibromochloromethane | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Dibromomethane | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Ethylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Hexachlorobutadiene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Isopropylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| m,p-Xylene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| m-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Methylene chloride | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Naphthalene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| n-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| n-Propylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| o-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| o-Xylene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| p-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| p-Isopropyltoluene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| sec-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Styrene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| tert-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Tetrachloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Toluene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| trans-1,2-Dichloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| trans-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Trichloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Trichlorofluoromethane | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| Vinyl chloride | ND | | 1200 | ug/kg | 50 | 10/20/15 22:05 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *100 %* | Conc:*241* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *97 %* | Conc:*235* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *96 %* | Conc:*232* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *100 %* | Conc:*242* | *82-120* | % | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-03RE1 G3R1+2**

**Sampled:** 10/01/15 11:42 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G3R1 and G3R2**

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5K0050 Prepared: 10/28/15 09:22 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 0.50 | mg/kg | 1 | 10/28/15 14:18 | |
| *Surr: 4-Bromofluorobenzene* | *90 %* | Conc:*0.225* | *54-139* | % | | | |

Method: EPA 8015B Batch: W5K0345 Prepared: 10/30/15 17:00 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Diesel Range Organics** | **51** | | 9.9 | mg/kg | 1 | 10/31/15 01:26 | HC-02 |
| *Surr: n-Tetracosane* | *101 %* | Conc:*50.0* | *53-134* | % | | | |

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| **Acetone** | **180** | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Acrolein | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Benzene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-03RE1 G3R1+2**

**Sampled:** 10/01/15 11:42 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G3R1 and G3R2**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromobenzene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Bromoform | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Bromomethane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Chloroethane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Chloroform | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Chloromethane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Methylene chloride | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Naphthalene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| o-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Styrene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Toluene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | 1 | 11/06/15 10:20 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-03RE1 G3R1+2**

**Sampled:** 10/01/15 11:42 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G3R1 and G3R2**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| *Surr: 1,2-Dichloroethane-d4* | *110 %* | Conc:*259* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *101 %* | Conc:*239* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *104 %* | Conc:*244* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *103 %* | Conc:*243* | *82-120* | % | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-04 G4R1+2**

**Sampled:** 10/01/15 12:03 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G4R1 and G4R2**

## Anions in solids by EPA 9056/300.0

Method: EPA 9056A Batch: W5J0909 Prepared: 10/17/15 11:00 Analyst: atl

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromide, Water Leachable | ND | 15 | mg/kg | 1 | 10/17/15 21:04 | |
| **Chloride, Water Leachable** | **47** | 15 | mg/kg | 1 | 10/17/15 21:04 | |
| **Fluoride, Water Leachable** | **41** | 12 | mg/kg | 4 | 10/17/15 21:17 | |
| Nitrate as NO3, Water Leachable | ND | 15 | mg/kg | 1 | 10/17/15 21:04 | |
| Sulfate as S, Water Leachable | ND | 59 | mg/kg | 4 | 10/17/15 21:17 | |

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5J0866 Prepared: 10/16/15 09:59 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 250 | mg/kg | 1 | 10/16/15 23:18 | |
| *Surr: 4-Bromofluorobenzene* | *86 %* | Conc:*108* | *54-139* | % | | | |

Method: EPA 8015B Batch: W5J1579 Prepared: 10/29/15 11:24 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics | ND | | 48 | mg/kg | 1 | 10/30/15 00:09 | |
| *Surr: n-Tetracosane* | *100 %* | Conc:*238* | *53-134* | % | | | |

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6010B Batch: W5J1375 Prepared: 10/26/15 14:52 Analyst: jck

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Boron, Total** | **4.3** | 3.9 | mg/kg | 1 | 10/28/15 15:30 | |
| **Calcium, Total** | **83** | 50 | mg/kg | 1 | 10/28/15 15:30 | |
| Iron, Total | ND | 19 | mg/kg | 1 | 10/28/15 15:30 | |
| Lithium, Total | ND | 5.0 | mg/kg | 1 | 10/28/15 15:30 | |
| Magnesium, Total | ND | 190 | mg/kg | 1 | 10/28/15 15:30 | |
| Manganese, Total | ND | 3.9 | mg/kg | 1 | 10/28/15 15:30 | |
| **Potassium, Total** | **2100** | 190 | mg/kg | 1 | 10/28/15 15:30 | |
| Sodium, Total | ND | 390 | mg/kg | 1 | 10/28/15 15:30 | |

Method: EPA 6020A Batch: W5J1376 Prepared: 10/26/15 14:54 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Antimony, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 19:30 | |
| Arsenic, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 19:30 | |
| Barium, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 19:30 | |
| Beryllium, Total | ND | 1.2 | mg/kg | 1 | 10/28/15 19:30 | |
| Cadmium, Total | ND | 0.78 | mg/kg | 1 | 10/28/15 19:30 | |
| Chromium, Total | ND | 3.9 | mg/kg | 1 | 10/28/15 19:30 | |
| Cobalt, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 19:30 | |
| **Copper, Total** | **5.0** | 1.9 | mg/kg | 1 | 10/28/15 19:30 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-04 G4R1+2**

**Sampled:** 10/01/15 12:03 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G4R1 and G4R2**

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6020A Batch: W5J1376 Prepared: 10/26/15 14:54 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Molybdenum, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 19:30 | |
| Selenium, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 19:30 | |
| Silver, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 19:30 | |
| Strontium, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 19:30 | |
| Thallium, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 19:30 | |
| Uranium, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 19:30 | |
| Zinc, Total | ND | 19 | mg/kg | 1 | 10/28/15 19:30 | |

Method: EPA 6020B Batch: W5J1376 Prepared: 10/26/15 14:54 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Lead, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 19:30 | |
| Nickel, Total | ND | 3.9 | mg/kg | 1 | 10/28/15 19:30 | |
| Vanadium, Total | ND | 3.9 | mg/kg | 1 | 10/28/15 19:30 | |

## Semivolatile Organics - Low Level by GC/MS SIM Mode

Method: EPA 8270C SIM Batch: W5J0874 Prepared: 10/16/15 11:34 Analyst: mxw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| 2-Methylnaphthalene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| Acenaphthene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| Acenaphthylene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| Anthracene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| Benzo (a) anthracene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| Benzo (a) pyrene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| Benzo (b) fluoranthene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| Benzo (g,h,i) perylene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| Benzo (k) fluoranthene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| Chrysene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| Dibenzo (a,h) anthracene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| Fluoranthene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| Fluorene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| Indeno (1,2,3-cd) pyrene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| Naphthalene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| Phenanthrene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| Pyrene | ND | 71 | ug/kg | 1 | 10/30/15 04:26 | M-02 |
| *Surr: 2-Fluorobiphenyl* | *54 %* | Conc:*1270* *0.1-109* | % | | | *M-02* |
| *Surr: Nitrobenzene-d5* | *76 %* | Conc:*1790* *0.1-107* | % | | | *M-02* |
| *Surr: Terphenyl-d14* | *76 %* | Conc:*1810* *28-128* | % | | | *M-02* |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-04 G4R1+2**

**Sampled:** 10/01/15 12:03 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G4R1 and G4R2**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5J1037 Prepared: 10/20/15 10:03 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 1,1,1-Trichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 1,1,2-Trichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 1,1-Dichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 1,1-Dichloroethene | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 1,1-Dichloropropene | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 1,2,3-Trichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 1,2-Dichloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 1,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 1,3-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 2,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 2-Butanone | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 2-Chlorotoluene | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 2-Hexanone | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 4-Chlorotoluene | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| 4-Methyl-2-pentanone | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Acetone | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Acrolein | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Acrylonitrile | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Benzene | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Bromobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Bromochloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Bromodichloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Bromoform | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Bromomethane | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Carbon tetrachloride | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Chlorobenzene | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Chloroethane | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Chloroform | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Chloromethane | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| cis-1,2-Dichloroethene | ND | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-04 G4R1+2**

**Sampled:** 10/01/15 12:03 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G4R1 and G4R2**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5J1037 Prepared: 10/20/15 10:03 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Dibromochloromethane | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Dibromomethane | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Ethylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Hexachlorobutadiene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Isopropylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| m,p-Xylene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| m-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Methylene chloride | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Naphthalene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| n-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| n-Propylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| o-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| o-Xylene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| p-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| p-Isopropyltoluene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| sec-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Styrene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| tert-Butylbenzene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Tetrachloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Toluene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| trans-1,2-Dichloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| trans-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Trichloroethene | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Trichlorofluoromethane | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| Vinyl chloride | ND | | 1200 | ug/kg | 50 | 10/20/15 23:07 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *100 %* | Conc:*243* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *99 %* | Conc:*239* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *96 %* | Conc:*232* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *101 %* | Conc:*244* | *82-120* | % | | | |



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Bakersfield, CA 93301 CA, 93301

**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-04RE1 G4R1+2**

**Sampled:** 10/01/15 12:03 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G4R1 and G4R2**

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5K0050 Prepared: 10/28/15 09:22 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics** | **6.9** | | 0.50 | mg/kg | 1 | 10/28/15 14:47 | HC-02 |
| *Surr: 4-Bromofluorobenzene* | *72 %* | Conc:*0.180* | *54-139* | % | | | |

Method: EPA 8015B Batch: W5K0345 Prepared: 10/30/15 17:00 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Diesel Range Organics** | **48** | | 9.8 | mg/kg | 1 | 10/31/15 02:00 | HC-02 |
| *Surr: n-Tetracosane* | *101 %* | Conc:*49.4* | *53-134* | % | | | |

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| **Acetone** | **260** | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Acrolein | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Benzene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-04RE1 G4R1+2**

**Sampled:** 10/01/15 12:03 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G4R1 and G4R2**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromobenzene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Bromoform | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Bromomethane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Chloroethane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Chloroform | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Chloromethane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Methylene chloride | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Naphthalene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| o-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Styrene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Toluene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | 1 | 11/06/15 11:28 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

**5J02045-04RE1 G4R1+2**

**Sampled:** 10/01/15 12:03 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of G4R1 and G4R2**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| *Surr: 1,2-Dichloroethane-d4* | *106 %* | Conc:*250* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *101 %* | Conc:*240* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *93 %* | Conc:*221* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *107 %* | Conc:*254* | *82-120* | % | | | |



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# QUALITY CONTROL SECTION



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Anions in solids by EPA 9056/300.0 - Quality Control

**Batch W5J0909 - EPA 9056A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J0909-BLK1)** | | | | Analyzed: 10/17/15 11:49 | | | | | | |
| Bromide, Water Leachable | ND | 5.0 | mg/kg | | | | | | | |
| Chloride, Water Leachable | ND | 5.0 | mg/kg | | | | | | | |
| Fluoride, Water Leachable | ND | 1.0 | mg/kg | | | | | | | |
| Nitrate as NO3, Water Leachable | ND | 5.0 | mg/kg | | | | | | | |
| Sulfate as S, Water Leachable | ND | 5.0 | mg/kg | | | | | | | |
| **LCS (W5J0909-BS1)** | | | | Analyzed: 10/17/15 12:04 | | | | | | |
| Bromide, Water Leachable | 86.1 | 5.0 | mg/kg | 79.9 | | 108 | 90-110 | | | |
| Chloride, Water Leachable | 43.7 | 5.0 | mg/kg | 39.9 | | 109 | 90-110 | | | |
| Fluoride, Water Leachable | 20.4 | 1.0 | mg/kg | 20.0 | | 102 | 90-110 | | | |
| Nitrate as NO3, Water Leachable | 83.0 | 5.0 | mg/kg | 79.9 | | 104 | 90-110 | | | |
| Sulfate as S, Water Leachable | 81.2 | 5.0 | mg/kg | 79.9 | | 102 | 90-110 | | | |
| **Duplicate (W5J0909-DUP1)** | **Source: 5I25014-01** | | | Analyzed: 10/17/15 14:16 | | | | | | |
| Bromide, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 29.6 | 37 | mg/kg | | 29.8 | | | 0.6 | 20 | |
| Fluoride, Water Leachable | 9.28 | 7.4 | mg/kg | | 9.40 | | | 1 | 20 | |
| Nitrate as NO3, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Sulfate as S, Water Leachable | 378 | 37 | mg/kg | | 438 | | | 15 | 20 | |
| **Duplicate (W5J0909-DUP2)** | **Source: 5I25014-02** | | | Analyzed: 10/17/15 15:12 | | | | | | |
| Bromide, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 77.2 | 37 | mg/kg | | 80.7 | | | 4 | 20 | |
| Fluoride, Water Leachable | 16.0 | 7.5 | mg/kg | | 16.1 | | | 0.5 | 20 | |
| Nitrate as NO3, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Sulfate as S, Water Leachable | 556 | 37 | mg/kg | | 567 | | | 2 | 20 | |
| **Duplicate (W5J0909-DUP3)** | **Source: 5I25014-03** | | | Analyzed: 10/17/15 15:39 | | | | | | |
| Bromide, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 51.6 | 37 | mg/kg | | 57.5 | | | 11 | 20 | |
| Fluoride, Water Leachable | 13.1 | 7.4 | mg/kg | | 13.6 | | | 4 | 20 | |
| Nitrate as NO3, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Sulfate as S, Water Leachable | 687 | 37 | mg/kg | | 724 | | | 5 | 20 | |
| **Duplicate (W5J0909-DUP4)** | **Source: 5J02045-01** | | | Analyzed: 10/17/15 16:07 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 51.8 | 15 | mg/kg | | 39.7 | | | 26 | 20 | A-01 |
| Fluoride, Water Leachable | 28.8 | 12 | mg/kg | | 31.8 | | | 10 | 20 | |
| Nitrate as NO3, Water Leachable | 3.30 | 15 | mg/kg | | 5.65 | | | 52 | 20 | A-01 |
| Sulfate as S, Water Leachable | ND | 60 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J0909-DUP5)** | **Source: 5J02045-02** | | | Analyzed: 10/17/15 18:42 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 48.9 | 15 | mg/kg | | 50.0 | | | 2 | 20 | |
| Fluoride, Water Leachable | 35.4 | 12 | mg/kg | | 34.1 | | | 4 | 20 | |

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## Anions in solids by EPA 9056/300.0 - Quality Control

**Batch W5J0909 - EPA 9056A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J0909-DUP5)** | | **Source: 5J02045-02** | | Analyzed: 10/17/15 18:42 | | | | | | |
| Nitrate as NO3, Water Leachable | 3.01 | 15 | mg/kg | | 3.55 | | | 16 | 20 | |
| Sulfate as S, Water Leachable | ND | 59 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J0909-DUP6)** | | **Source: 5J02045-03** | | Analyzed: 10/17/15 20:36 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | 4.18 | | | NR | 20 | A-01 |
| Chloride, Water Leachable | 32.5 | 15 | mg/kg | | 40.3 | | | 21 | 20 | A-01 |
| Fluoride, Water Leachable | 29.3 | 12 | mg/kg | | 34.6 | | | 16 | 20 | |
| Nitrate as NO3, Water Leachable | 4.55 | 15 | mg/kg | | 9.27 | | | 68 | 20 | A-01 |
| Sulfate as S, Water Leachable | ND | 59 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J0909-DUP7)** | | **Source: 5J02045-04** | | Analyzed: 10/17/15 21:31 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 42.8 | 15 | mg/kg | | 46.7 | | | 9 | 20 | |
| Fluoride, Water Leachable | 41.6 | 12 | mg/kg | | 41.2 | | | 1 | 20 | |
| Nitrate as NO3, Water Leachable | 2.26 | 15 | mg/kg | | 5.21 | | | 79 | 20 | A-01 |
| Sulfate as S, Water Leachable | ND | 60 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J0909-DUP8)** | | **Source: 5J02046-01** | | Analyzed: 10/17/15 19:23 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 87.1 | 15 | mg/kg | | 87.2 | | | 0.1 | 20 | |
| Fluoride, Water Leachable | 43.0 | 3.0 | mg/kg | | 48.8 | | | 13 | 20 | |
| Nitrate as NO3, Water Leachable | 5.55 | 15 | mg/kg | | 4.77 | | | 15 | 20 | |
| Sulfate as S, Water Leachable | 346 | 15 | mg/kg | | 394 | | | 13 | 20 | |
| **Duplicate (W5J0909-DUP9)** | | **Source: 5J02046-02** | | Analyzed: 10/17/15 22:12 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 81.7 | 15 | mg/kg | | 82.9 | | | 1 | 20 | |
| Fluoride, Water Leachable | 48.9 | 3.0 | mg/kg | | 44.9 | | | 8 | 20 | |
| Nitrate as NO3, Water Leachable | 7.00 | 15 | mg/kg | | 6.10 | | | 14 | 20 | |
| Sulfate as S, Water Leachable | 294 | 15 | mg/kg | | 286 | | | 3 | 20 | |
| **Duplicate (W5J0909-DUPA)** | | **Source: 5J02046-03** | | Analyzed: 10/17/15 22:39 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 83.8 | 15 | mg/kg | | 86.1 | | | 3 | 20 | |
| Fluoride, Water Leachable | 42.3 | 3.0 | mg/kg | | 43.6 | | | 3 | 20 | |
| Nitrate as NO3, Water Leachable | 7.38 | 15 | mg/kg | | 3.83 | | | 63 | 20 | A-01 |
| Sulfate as S, Water Leachable | 191 | 15 | mg/kg | | 263 | | | 32 | 20 | R-02 |
| **Matrix Spike (W5J0909-MS1)** | | **Source: 5J08055-02** | | Analyzed: 10/17/15 12:41 | | | | | | |
| Bromide, Water Leachable | 143 | 10 | mg/kg | 160 | ND | 89 | 76-113 | | | |
| Chloride, Water Leachable | 226 | 10 | mg/kg | 79.8 | 139 | 109 | 31-160 | | | |
| Fluoride, Water Leachable | 33.8 | 2.0 | mg/kg | 39.9 | 3.65 | 75 | 0.1-134 | | | |
| Nitrate as NO3, Water Leachable | 138 | 10 | mg/kg | 160 | 1.59 | 86 | 0.1-163 | | | |
| Sulfate as S, Water Leachable | 558 | 10 | mg/kg | 160 | 375 | 115 | 5-159 | | | |
| **Matrix Spike (W5J0909-MS2)** | | **Source: 5I25014-01** | | Analyzed: 10/17/15 14:30 | | | | | | |



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**Date Reported:** 11/11/15 15:51

## Anions in solids by EPA 9056/300.0 - Quality Control

**Batch W5J0909 - EPA 9056A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J0909-MS2)** | | **Source: 5I25014-01** | | Analyzed: 10/17/15 14:30 | | | | | | |
| Bromide, Water Leachable | 1170 | 72 | mg/kg | 1160 | ND | 101 | 76-113 | | | |
| Chloride, Water Leachable | 669 | 72 | mg/kg | 580 | 29.8 | 110 | 31-160 | | | |
| Fluoride, Water Leachable | 308 | 14 | mg/kg | 290 | 9.40 | 103 | 0.1-134 | | | |
| Nitrate as NO3, Water Leachable | 1160 | 72 | mg/kg | 1160 | ND | 100 | 0.1-163 | | | |
| Sulfate as S, Water Leachable | 1650 | 72 | mg/kg | 1160 | 438 | 104 | 5-159 | | | |
| **Matrix Spike (W5J0909-MS3)** | | **Source: 5J02045-01** | | Analyzed: 10/17/15 16:21 | | | | | | |
| Bromide, Water Leachable | 440 | 30 | mg/kg | 475 | ND | 93 | 76-113 | | | |
| Chloride, Water Leachable | 259 | 30 | mg/kg | 238 | 39.7 | 92 | 31-160 | | | |
| Fluoride, Water Leachable | 173 | 5.9 | mg/kg | 119 | 31.8 | 119 | 0.1-134 | | | |
| Nitrate as NO3, Water Leachable | 426 | 30 | mg/kg | 475 | 5.65 | 88 | 0.1-163 | | | |
| Sulfate as S, Water Leachable | 133 | 120 | mg/kg | 475 | ND | 28 | 5-159 | | | |
| **Matrix Spike (W5J0909-MS4)** | | **Source: 5J02046-01** | | Analyzed: 10/17/15 19:37 | | | | | | |
| Bromide, Water Leachable | 932 | 59 | mg/kg | 938 | ND | 99 | 76-113 | | | |
| Chloride, Water Leachable | 523 | 59 | mg/kg | 469 | 87.2 | 93 | 31-160 | | | |
| Fluoride, Water Leachable | 267 | 12 | mg/kg | 234 | 48.8 | 93 | 0.1-134 | | | |
| Nitrate as NO3, Water Leachable | 979 | 59 | mg/kg | 938 | 4.77 | 104 | 0.1-163 | | | |
| Sulfate as S, Water Leachable | 1140 | 59 | mg/kg | 938 | 394 | 79 | 5-159 | | | |
| **Matrix Spike Dup (W5J0909-MSD1)** | | **Source: 5J08055-02** | | Analyzed: 10/17/15 12:55 | | | | | | |
| Bromide, Water Leachable | 153 | 10 | mg/kg | 160 | ND | 96 | 76-113 | 7 | 20 | |
| Chloride, Water Leachable | 217 | 10 | mg/kg | 79.8 | 139 | 97 | 31-160 | 4 | 20 | |
| Fluoride, Water Leachable | 41.5 | 2.0 | mg/kg | 39.9 | 3.65 | 95 | 0.1-134 | 21 | 20 | Q-12 |
| Nitrate as NO3, Water Leachable | 148 | 10 | mg/kg | 160 | 1.59 | 92 | 0.1-163 | 7 | 20 | |
| Sulfate as S, Water Leachable | 546 | 10 | mg/kg | 160 | 375 | 107 | 5-159 | 2 | 20 | |
| **Matrix Spike Dup (W5J0909-MSD2)** | | **Source: 5I25014-01** | | Analyzed: 10/17/15 14:45 | | | | | | |
| Bromide, Water Leachable | 1180 | 73 | mg/kg | 1170 | ND | 102 | 76-113 | 0.7 | 20 | |
| Chloride, Water Leachable | 653 | 73 | mg/kg | 583 | 29.8 | 107 | 31-160 | 2 | 20 | |
| Fluoride, Water Leachable | 300 | 15 | mg/kg | 291 | 9.40 | 100 | 0.1-134 | 3 | 20 | |
| Nitrate as NO3, Water Leachable | 1160 | 73 | mg/kg | 1170 | ND | 100 | 0.1-163 | 0.2 | 20 | |
| Sulfate as S, Water Leachable | 1480 | 73 | mg/kg | 1170 | 438 | 89 | 5-159 | 11 | 20 | |
| **Matrix Spike Dup (W5J0909-MSD3)** | | **Source: 5J02045-01** | | Analyzed: 10/17/15 16:36 | | | | | | |
| Bromide, Water Leachable | 444 | 29 | mg/kg | 470 | ND | 95 | 76-113 | 0.9 | 20 | |
| Chloride, Water Leachable | 260 | 29 | mg/kg | 235 | 39.7 | 94 | 31-160 | 0.4 | 20 | |
| Fluoride, Water Leachable | 173 | 5.9 | mg/kg | 117 | 31.8 | 121 | 0.1-134 | 0.04 | 20 | |
| Nitrate as NO3, Water Leachable | 439 | 29 | mg/kg | 470 | 5.65 | 92 | 0.1-163 | 3 | 20 | |
| Sulfate as S, Water Leachable | 131 | 120 | mg/kg | 470 | ND | 28 | 5-159 | 2 | 20 | |
| **Matrix Spike Dup (W5J0909-MSD4)** | | **Source: 5J02046-01** | | Analyzed: 10/17/15 19:52 | | | | | | |
| Bromide, Water Leachable | 910 | 58 | mg/kg | 927 | ND | 98 | 76-113 | 2 | 20 | |
| Chloride, Water Leachable | 544 | 58 | mg/kg | 463 | 87.2 | 99 | 31-160 | 4 | 20 | |
| Fluoride, Water Leachable | 278 | 12 | mg/kg | 232 | 48.8 | 99 | 0.1-134 | 4 | 20 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Anions in solids by EPA 9056/300.0 - Quality Control

**Batch W5J0909 - EPA 9056A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5J0909-MSD4)** | | **Source: 5J02046-01** | | Analyzed: 10/17/15 19:52 | | | | | | |
| Nitrate as NO3, Water Leachable | 904 | 58 | mg/kg | 927 | 4.77 | 97 | 0.1-163 | 8 | 20 | |
| Sulfate as S, Water Leachable | 1200 | 58 | mg/kg | 927 | 394 | 87 | 5-159 | 6 | 20 | |

## Hydrocarbons by EPA 8015B - Quality Control

**Batch W5J0866 - EPA 8015B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J0866-BLK1)** | | | | Analyzed: 10/16/15 14:56 | | | | | | |
| Gasoline Range Organics | ND | 0.50 | mg/kg | | | | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.235* | | *mg/kg* | *0.250* | | *94* | *54-139* | | | |
| **LCS (W5J0866-BS1)** | | | | Analyzed: 10/16/15 13:57 | | | | | | |
| Gasoline Range Organics | 5.06 | 0.50 | mg/kg | 5.00 | | 101 | 76-123 | | | |
| *Surr: 4-Bromofluorobenzene* | *0.240* | | *mg/kg* | *0.250* | | *96* | *54-139* | | | |
| **Matrix Spike (W5J0866-MS1)** | | **Source: 5I25014-03** | | Analyzed: 10/16/15 20:21 | | | | | | |
| Gasoline Range Organics | 1760 | 250 | mg/kg | 2500 | ND | 70 | 3-126 | | | |
| *Surr: 4-Bromofluorobenzene* | *92.5* | | *mg/kg* | *125* | | *74* | *54-139* | | | |
| **Matrix Spike (W5J0866-MS2)** | | **Source: 5J02045-02** | | Analyzed: 10/17/15 00:18 | | | | | | |
| Gasoline Range Organics | 1970 | 250 | mg/kg | 2500 | ND | 79 | 3-126 | | | |
| *Surr: 4-Bromofluorobenzene* | *115* | | *mg/kg* | *125* | | *92* | *54-139* | | | |
| **Matrix Spike Dup (W5J0866-MSD1)** | | **Source: 5I25014-03** | | Analyzed: 10/16/15 20:51 | | | | | | |
| Gasoline Range Organics | 1840 | 250 | mg/kg | 2500 | ND | 74 | 3-126 | 4 | 25 | |
| *Surr: 4-Bromofluorobenzene* | *105* | | *mg/kg* | *125* | | *84* | *54-139* | | | |
| **Matrix Spike Dup (W5J0866-MSD2)** | | **Source: 5J02045-02** | | Analyzed: 10/17/15 00:47 | | | | | | |
| Gasoline Range Organics | 2040 | 250 | mg/kg | 2500 | ND | 82 | 3-126 | 4 | 25 | |
| *Surr: 4-Bromofluorobenzene* | *120* | | *mg/kg* | *125* | | *96* | *54-139* | | | |

**Batch W5J1579 - EPA 8015B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1579-BLK1)** | | | | Analyzed: 10/29/15 18:35 | | | | | | |
| Diesel Range Organics | ND | 5.0 | mg/kg | | | | | | | |
| *Surr: n-Tetracosane* | *24.7* | | *mg/kg* | *25.0* | | *99* | *53-134* | | | |
| **LCS (W5J1579-BS1)** | | | | Analyzed: 10/29/15 19:09 | | | | | | |
| Diesel Range Organics | 41.6 | 5.0 | mg/kg | 50.0 | | 83 | 49-125 | | | |
| *Surr: n-Tetracosane* | *24.5* | | *mg/kg* | *25.0* | | *98* | *53-134* | | | |
| **Matrix Spike (W5J1579-MS1)** | | **Source: 5I25014-01** | | Analyzed: 10/30/15 06:49 | | | | | | |
| Diesel Range Organics | 3100 | 100 | mg/kg | 1000 | 2150 | 96 | 42-121 | | | |
| *Surr: n-Tetracosane* | *483* | | *mg/kg* | *500* | | *97* | *53-134* | | | |
| **Matrix Spike (W5J1579-MS2)** | | **Source: 5J02045-01** | | Analyzed: 10/29/15 19:41 | | | | | | |
| Diesel Range Organics | 270 | 50 | mg/kg | 500 | 29.3 | 48 | 42-121 | | | |
| *Surr: n-Tetracosane* | *253* | | *mg/kg* | *250* | | *101* | *53-134* | | | |

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## Hydrocarbons by EPA 8015B - Quality Control

### Batch W5J1579 - EPA 8015B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J1579-MS3)** | | **Source: 5J02046-01** | | Analyzed: 10/30/15 01:50 | | | | | | |
| Diesel Range Organics | 2600 | 98 | mg/kg | 980 | 3040 | NR | 42-121 | | | |
| *Surr: n-Tetracosane* | *463* | | *mg/kg* | *490* | | *94* | *53-134* | | | |
| **Matrix Spike Dup (W5J1579-MSD1)** | | **Source: 5I25014-01** | | Analyzed: 10/30/15 07:22 | | | | | | |
| Diesel Range Organics | 2710 | 100 | mg/kg | 1000 | 2150 | 56 | 42-121 | 14 | 25 | |
| *Surr: n-Tetracosane* | *499* | | *mg/kg* | *500* | | *100* | *53-134* | | | |
| **Matrix Spike Dup (W5J1579-MSD2)** | | **Source: 5J02045-01** | | Analyzed: 10/29/15 20:15 | | | | | | |
| Diesel Range Organics | 314 | 50 | mg/kg | 500 | 29.3 | 57 | 42-121 | 15 | 25 | |
| *Surr: n-Tetracosane* | *241* | | *mg/kg* | *250* | | *96* | *53-134* | | | |
| **Matrix Spike Dup (W5J1579-MSD3)** | | **Source: 5J02046-01** | | Analyzed: 10/30/15 02:23 | | | | | | |
| Diesel Range Organics | 4100 | 98 | mg/kg | 980 | 3040 | 108 | 42-121 | 45 | 25 | |
| *Surr: n-Tetracosane* | *443* | | *mg/kg* | *490* | | *90* | *53-134* | | | |

### Batch W5K0050 - EPA 8015B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5K0050-BLK1)** | | | | Analyzed: 10/28/15 12:49 | | | | | | |
| Gasoline Range Organics | ND | 0.50 | mg/kg | | | | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.245* | | *mg/kg* | *0.250* | | *98* | *54-139* | | | |
| **LCS (W5K0050-BS1)** | | | | Analyzed: 10/28/15 11:50 | | | | | | |
| Gasoline Range Organics | 4.72 | 0.50 | mg/kg | 5.00 | | 94 | 76-123 | | | |
| *Surr: 4-Bromofluorobenzene* | *0.230* | | *mg/kg* | *0.250* | | *92* | *54-139* | | | |
| **LCS Dup (W5K0050-BSD1)** | | | | Analyzed: 10/28/15 12:20 | | | | | | |
| Gasoline Range Organics | 5.03 | 0.50 | mg/kg | 5.00 | | 101 | 76-123 | 6 | 25 | |
| *Surr: 4-Bromofluorobenzene* | *0.250* | | *mg/kg* | *0.250* | | *100* | *54-139* | | | |

### Batch W5K0345 - EPA 8015B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5K0345-BLK1)** | | | | Analyzed: 10/30/15 23:46 | | | | | | |
| Diesel Range Organics | 22.6 | 5.0 | mg/kg | | | | | | | HC-02 |
| *Surr: n-Tetracosane* | *27.9* | | *mg/kg* | *25.0* | | *112* | *53-134* | | | |

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

### Batch W5J1375 - EPA 6010B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1375-BLK1)** | | | | Analyzed: 10/28/15 14:58 | | | | | | |
| Boron, Total | ND | 1.0 | mg/kg | | | | | | | |
| Calcium, Total | ND | 50 | mg/kg | | | | | | | |
| Iron, Total | ND | 5.0 | mg/kg | | | | | | | |
| Lithium, Total | ND | 5.0 | mg/kg | | | | | | | |
| Magnesium, Total | ND | 50 | mg/kg | | | | | | | |

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**Date Reported:** 11/11/15 15:51

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

**Batch W5J1375 - EPA 6010B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1375-BLK1)** | | | | Analyzed: 10/28/15 14:58 | | | | | | |
| Manganese, Total | ND | 1.0 | mg/kg | | | | | | | |
| Potassium, Total | ND | 50 | mg/kg | | | | | | | |
| Sodium, Total | ND | 100 | mg/kg | | | | | | | |
| **LCS (W5J1375-BS1)** | | | | Analyzed: 10/28/15 15:03 | | | | | | |
| Boron, Total | 43.8 | 1.0 | mg/kg | 50.0 | | 88 | 80-120 | | | |
| Calcium, Total | 2260 | 50 | mg/kg | 2550 | | 89 | 80-120 | | | |
| Iron, Total | 45.8 | 5.0 | mg/kg | 50.0 | | 91 | 80-120 | | | |
| Lithium, Total | 39.4 | 5.0 | mg/kg | 40.0 | | 98 | 80-120 | | | |
| Magnesium, Total | 2140 | 50 | mg/kg | 2550 | | 84 | 80-120 | | | |
| Manganese, Total | 45.6 | 1.0 | mg/kg | 50.0 | | 91 | 80-120 | | | |
| Potassium, Total | 2390 | 50 | mg/kg | 2550 | | 94 | 80-120 | | | |
| Sodium, Total | 2210 | 100 | mg/kg | 2550 | | 87 | 80-120 | | | |
| **Duplicate (W5J1375-DUP1)** | **Source: 5J02045-01** | | | Analyzed: 10/28/15 15:16 | | | | | | |
| Boron, Total | 8.02 | 4.0 | mg/kg | | 8.24 | | | 3 | 20 | |
| Calcium, Total | 93.0 | 50 | mg/kg | | 89.6 | | | 4 | 20 | |
| Iron, Total | 5.13 | 20 | mg/kg | | 4.80 | | | 7 | 20 | |
| Lithium, Total | ND | 5.0 | mg/kg | | ND | | | NR | 20 | |
| Magnesium, Total | 58.7 | 200 | mg/kg | | 57.1 | | | 3 | 20 | |
| Manganese, Total | ND | 4.0 | mg/kg | | ND | | | NR | 20 | |
| Potassium, Total | 1410 | 200 | mg/kg | | 1490 | | | 6 | 20 | |
| Sodium, Total | 22.3 | 400 | mg/kg | | 24.5 | | | 9 | 20 | |
| **Duplicate (W5J1375-DUP2)** | **Source: 5J02045-02** | | | Analyzed: 10/28/15 15:22 | | | | | | |
| Boron, Total | 7.01 | 3.7 | mg/kg | | 7.29 | | | 4 | 20 | |
| Calcium, Total | 98.4 | 50 | mg/kg | | 96.7 | | | 2 | 20 | |
| Iron, Total | 4.34 | 19 | mg/kg | | 4.48 | | | 3 | 20 | |
| Lithium, Total | ND | 5.0 | mg/kg | | ND | | | NR | 20 | |
| Magnesium, Total | 89.1 | 190 | mg/kg | | 90.6 | | | 2 | 20 | |
| Manganese, Total | ND | 3.7 | mg/kg | | ND | | | NR | 20 | |
| Potassium, Total | 1780 | 190 | mg/kg | | 1790 | | | 0.1 | 20 | |
| Sodium, Total | 59.7 | 370 | mg/kg | | 58.5 | | | 2 | 20 | |
| **Duplicate (W5J1375-DUP3)** | **Source: 5J02045-03** | | | Analyzed: 10/28/15 15:27 | | | | | | |
| Boron, Total | 5.12 | 3.9 | mg/kg | | 5.20 | | | 2 | 20 | |
| Calcium, Total | 92.5 | 50 | mg/kg | | 88.0 | | | 5 | 20 | |
| Iron, Total | 10.8 | 20 | mg/kg | | 11.0 | | | 2 | 20 | |
| Lithium, Total | ND | 5.0 | mg/kg | | ND | | | NR | 20 | |
| Magnesium, Total | 84.0 | 200 | mg/kg | | 81.7 | | | 3 | 20 | |
| Manganese, Total | ND | 3.9 | mg/kg | | ND | | | NR | 20 | |
| Potassium, Total | 2370 | 200 | mg/kg | | 2370 | | | 0.1 | 20 | |
| Sodium, Total | ND | 390 | mg/kg | | ND | | | NR | 20 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

### Batch W5J1375 - EPA 6010B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1375-DUP4)** | | **Source: 5J02045-04** | | Analyzed: 10/28/15 15:32 | | | | | | |
| Boron, Total | 4.14 | 3.8 | mg/kg | | 4.27 | | | 3 | 20 | |
| Calcium, Total | 83.7 | 50 | mg/kg | | 83.0 | | | 0.8 | 20 | |
| Iron, Total | 3.93 | 19 | mg/kg | | 4.17 | | | 6 | 20 | |
| Lithium, Total | ND | 5.0 | mg/kg | | ND | | | NR | 20 | |
| Magnesium, Total | 87.6 | 190 | mg/kg | | 92.5 | | | 5 | 20 | |
| Manganese, Total | ND | 3.8 | mg/kg | | ND | | | NR | 20 | |
| Potassium, Total | 2060 | 190 | mg/kg | | 2110 | | | 3 | 20 | |
| Sodium, Total | ND | 380 | mg/kg | | ND | | | NR | 20 | |
| **Matrix Spike (W5J1375-MS1)** | | **Source: 5J02045-01** | | Analyzed: 10/28/15 15:54 | | | | | | |
| Boron, Total | 179 | 3.8 | mg/kg | 189 | 8.24 | 91 | 75-125 | | | |
| Calcium, Total | 8870 | 50 | mg/kg | 9620 | 89.6 | 91 | 75-125 | | | |
| Iron, Total | 181 | 19 | mg/kg | 189 | 4.80 | 93 | 75-125 | | | |
| Lithium, Total | 151 | 5.0 | mg/kg | 151 | ND | 100 | 75-125 | | | |
| Magnesium, Total | 8580 | 190 | mg/kg | 9620 | 57.1 | 89 | 75-125 | | | |
| Manganese, Total | 176 | 3.8 | mg/kg | 189 | ND | 93 | 75-125 | | | |
| Potassium, Total | 10400 | 190 | mg/kg | 9620 | 1490 | 92 | 75-125 | | | |
| Sodium, Total | 8580 | 380 | mg/kg | 9620 | 24.5 | 89 | 75-125 | | | |
| **Matrix Spike Dup (W5J1375-MSD1)** | | **Source: 5J02045-01** | | Analyzed: 10/28/15 15:57 | | | | | | |
| Boron, Total | 178 | 3.7 | mg/kg | 187 | 8.24 | 91 | 75-125 | 0.7 | 20 | |
| Calcium, Total | 8770 | 50 | mg/kg | 9510 | 89.6 | 91 | 75-125 | 1 | 20 | |
| Iron, Total | 180 | 19 | mg/kg | 187 | 4.80 | 94 | 75-125 | 0.5 | 20 | |
| Lithium, Total | 150 | 5.0 | mg/kg | 149 | ND | 100 | 75-125 | 1 | 20 | |
| Magnesium, Total | 8470 | 190 | mg/kg | 9510 | 57.1 | 88 | 75-125 | 1 | 20 | |
| Manganese, Total | 174 | 3.7 | mg/kg | 187 | ND | 93 | 75-125 | 1 | 20 | |
| Potassium, Total | 10300 | 190 | mg/kg | 9510 | 1490 | 92 | 75-125 | 1 | 20 | |
| Sodium, Total | 8420 | 370 | mg/kg | 9510 | 24.5 | 88 | 75-125 | 2 | 20 | |

### Batch W5J1376 - EPA 6020A

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1376-BLK1)** | | | | Analyzed: 10/28/15 17:36 | | | | | | |
| Antimony, Total | ND | 2.0 | mg/kg | | | | | | | |
| Arsenic, Total | ND | 2.0 | mg/kg | | | | | | | |
| Barium, Total | ND | 2.0 | mg/kg | | | | | | | |
| Beryllium, Total | ND | 1.2 | mg/kg | | | | | | | |
| Cadmium, Total | ND | 0.80 | mg/kg | | | | | | | |
| Chromium, Total | ND | 4.0 | mg/kg | | | | | | | |
| Cobalt, Total | ND | 2.0 | mg/kg | | | | | | | |
| Copper, Total | ND | 2.0 | mg/kg | | | | | | | |
| Lead, Total | ND | 2.0 | mg/kg | | | | | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

**Batch W5J1376 - EPA 6020A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1376-BLK1)** | | | | Analyzed: 10/28/15 17:36 | | | | | | |
| Molybdenum, Total | ND | 2.0 | mg/kg | | | | | | | |
| Nickel, Total | ND | 4.0 | mg/kg | | | | | | | |
| Selenium, Total | ND | 2.0 | mg/kg | | | | | | | |
| Silver, Total | ND | 2.0 | mg/kg | | | | | | | |
| Strontium, Total | ND | 2.0 | mg/kg | | | | | | | |
| Thallium, Total | ND | 2.0 | mg/kg | | | | | | | |
| Uranium, Total | ND | 2.0 | mg/kg | | | | | | | |
| Vanadium, Total | ND | 4.0 | mg/kg | | | | | | | |
| Zinc, Total | ND | 20 | mg/kg | | | | | | | |
| **LCS (W5J1376-BS1)** | | | | Analyzed: 10/28/15 17:43 | | | | | | |
| Antimony, Total | 766 | 2.0 | mg/kg | 800 | | 96 | 80-120 | | | |
| Arsenic, Total | 773 | 2.0 | mg/kg | 800 | | 97 | 80-120 | | | |
| Barium, Total | 844 | 2.0 | mg/kg | 800 | | 106 | 80-120 | | | |
| Beryllium, Total | 841 | 1.2 | mg/kg | 800 | | 105 | 80-120 | | | |
| Cadmium, Total | 755 | 0.80 | mg/kg | 800 | | 94 | 80-120 | | | |
| Chromium, Total | 828 | 4.0 | mg/kg | 800 | | 104 | 80-120 | | | |
| Cobalt, Total | 825 | 2.0 | mg/kg | 800 | | 103 | 80-120 | | | |
| Copper, Total | 822 | 2.0 | mg/kg | 800 | | 103 | 80-120 | | | |
| Lead, Total | 804 | 2.0 | mg/kg | 800 | | 101 | 80-120 | | | |
| Molybdenum, Total | 765 | 2.0 | mg/kg | 800 | | 96 | 80-120 | | | |
| Nickel, Total | 792 | 4.0 | mg/kg | 800 | | 99 | 80-120 | | | |
| Selenium, Total | 726 | 2.0 | mg/kg | 800 | | 91 | 80-120 | | | |
| Silver, Total | 767 | 2.0 | mg/kg | 800 | | 96 | 80-120 | | | |
| Strontium, Total | 1580 | 2.0 | mg/kg | 1600 | | 99 | 80-120 | | | |
| Thallium, Total | 765 | 2.0 | mg/kg | 800 | | 96 | 80-120 | | | |
| Uranium, Total | 784 | 2.0 | mg/kg | 800 | | 98 | 80-120 | | | |
| Vanadium, Total | 799 | 4.0 | mg/kg | 800 | | 100 | 80-120 | | | |
| Zinc, Total | 748 | 20 | mg/kg | 800 | | 94 | 80-120 | | | |
| **Duplicate (W5J1376-DUP1)** | | **Source: 5J02045-01** | | Analyzed: 10/28/15 18:54 | | | | | | |
| Antimony, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Arsenic, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Barium, Total | 0.398 | 2.0 | mg/kg | | 0.400 | | | 0.4 | 20 | |
| Beryllium, Total | ND | 1.2 | mg/kg | | ND | | | NR | 20 | |
| Cadmium, Total | ND | 0.80 | mg/kg | | ND | | | NR | 20 | |
| Chromium, Total | ND | 4.0 | mg/kg | | 0.920 | | | NR | 20 | R-03 |
| Cobalt, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Copper, Total | 9.76 | 2.0 | mg/kg | | 9.16 | | | 6 | 20 | |
| Lead, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Molybdenum, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |

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## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

**Batch W5J1376 - EPA 6020B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1376-DUP1)** | | **Source: 5J02045-01** | | Analyzed: 10/28/15 18:54 | | | | | | |
| Nickel, Total | ND | 4.0 | mg/kg | | ND | | | NR | 20 | |
| Selenium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Silver, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Strontium, Total | 2.03 | 2.0 | mg/kg | | 2.00 | | | 2 | 20 | |
| Thallium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Uranium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Vanadium, Total | ND | 4.0 | mg/kg | | ND | | | NR | 20 | |
| Zinc, Total | ND | 20 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J1376-DUP2)** | | **Source: 5J02045-02** | | Analyzed: 10/28/15 19:09 | | | | | | |
| Antimony, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Arsenic, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Barium, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Beryllium, Total | ND | 1.1 | mg/kg | | ND | | | NR | 20 | |
| Cadmium, Total | ND | 0.74 | mg/kg | | ND | | | NR | 20 | |
| Chromium, Total | ND | 3.7 | mg/kg | | ND | | | NR | 20 | |
| Cobalt, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Copper, Total | 3.79 | 1.9 | mg/kg | | 3.57 | | | 6 | 20 | |
| Lead, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Molybdenum, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Nickel, Total | ND | 3.7 | mg/kg | | ND | | | NR | 20 | |
| Selenium, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Silver, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Strontium, Total | 2.27 | 1.9 | mg/kg | | 1.87 | | | 19 | 20 | |
| Thallium, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Uranium, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Vanadium, Total | ND | 3.7 | mg/kg | | ND | | | NR | 20 | |
| Zinc, Total | ND | 19 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J1376-DUP3)** | | **Source: 5J02045-03** | | Analyzed: 10/28/15 19:23 | | | | | | |
| Antimony, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Arsenic, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Barium, Total | 0.433 | 2.0 | mg/kg | | 0.518 | | | 18 | 20 | |
| Beryllium, Total | ND | 1.2 | mg/kg | | ND | | | NR | 20 | |
| Cadmium, Total | ND | 0.79 | mg/kg | | ND | | | NR | 20 | |
| Chromium, Total | ND | 3.9 | mg/kg | | ND | | | NR | 20 | |
| Cobalt, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Copper, Total | 8.31 | 2.0 | mg/kg | | 8.01 | | | 4 | 20 | |
| Lead, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Molybdenum, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Nickel, Total | ND | 3.9 | mg/kg | | ND | | | NR | 20 | |



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## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

**Batch W5J1376 - EPA 6020A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1376-DUP3)** | **Source: 5J02045-03** | | | Analyzed: 10/28/15 19:23 | | | | | | |
| Selenium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Silver, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Strontium, Total | 2.64 | 2.0 | mg/kg | | 2.39 | | | 10 | 20 | |
| Thallium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Uranium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Vanadium, Total | ND | 3.9 | mg/kg | | ND | | | NR | 20 | |
| Zinc, Total | ND | 20 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J1376-DUP4)** | **Source: 5J02045-04** | | | Analyzed: 10/28/15 19:37 | | | | | | |
| Antimony, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Arsenic, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Barium, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Beryllium, Total | ND | 1.1 | mg/kg | | ND | | | NR | 20 | |
| Cadmium, Total | ND | 0.76 | mg/kg | | ND | | | NR | 20 | |
| Chromium, Total | ND | 3.8 | mg/kg | | ND | | | NR | 20 | |
| Cobalt, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Copper, Total | 5.04 | 1.9 | mg/kg | | 5.00 | | | 0.8 | 20 | |
| Lead, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Molybdenum, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Nickel, Total | ND | 3.8 | mg/kg | | ND | | | NR | 20 | |
| Selenium, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Silver, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Strontium, Total | 1.64 | 1.9 | mg/kg | | 1.78 | | | 8 | 20 | |
| Thallium, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Uranium, Total | ND | 1.9 | mg/kg | | ND | | | NR | 20 | |
| Vanadium, Total | ND | 3.8 | mg/kg | | ND | | | NR | 20 | |
| Zinc, Total | ND | 19 | mg/kg | | ND | | | NR | 20 | |
| **Matrix Spike (W5J1376-MS1)** | **Source: 5J02045-01** | | | Analyzed: 10/28/15 17:50 | | | | | | |
| Antimony, Total | 716 | 1.9 | mg/kg | 754 | ND | 95 | 75-125 | | | |
| Arsenic, Total | 733 | 1.9 | mg/kg | 754 | ND | 97 | 75-125 | | | |
| Barium, Total | 794 | 1.9 | mg/kg | 754 | 0.400 | 105 | 75-125 | | | |
| Beryllium, Total | 784 | 1.1 | mg/kg | 754 | ND | 104 | 75-125 | | | |
| Cadmium, Total | 716 | 0.75 | mg/kg | 754 | ND | 95 | 75-125 | | | |
| Chromium, Total | 799 | 3.8 | mg/kg | 754 | 0.920 | 106 | 75-125 | | | |
| Cobalt, Total | 785 | 1.9 | mg/kg | 754 | ND | 104 | 75-125 | | | |
| Copper, Total | 793 | 1.9 | mg/kg | 754 | 9.16 | 104 | 75-125 | | | |
| Lead, Total | 764 | 1.9 | mg/kg | 754 | ND | 101 | 75-125 | | | |
| Molybdenum, Total | 728 | 1.9 | mg/kg | 754 | ND | 96 | 75-125 | | | |
| Nickel, Total | 749 | 3.8 | mg/kg | 754 | ND | 99 | 75-125 | | | |
| Selenium, Total | 671 | 1.9 | mg/kg | 754 | ND | 89 | 75-125 | | | |



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## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

### Batch W5J1376 - EPA 6020A

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J1376-MS1)** | | **Source: 5J02045-01** | | Analyzed: 10/28/15 17:50 | | | | | | |
| Silver, Total | 720 | 1.9 | mg/kg | 754 | ND | 95 | 75-125 | | | |
| Strontium, Total | 1500 | 1.9 | mg/kg | 1510 | 2.00 | 99 | 75-125 | | | |
| Thallium, Total | 723 | 1.9 | mg/kg | 754 | ND | 96 | 75-125 | | | |
| Uranium, Total | 753 | 1.9 | mg/kg | 754 | ND | 100 | 75-125 | | | |
| Vanadium, Total | 754 | 3.8 | mg/kg | 754 | ND | 100 | 75-125 | | | |
| Zinc, Total | 719 | 19 | mg/kg | 754 | ND | 95 | 75-125 | | | |
| **Matrix Spike Dup (W5J1376-MSD1)** | | **Source: 5J02045-01** | | Analyzed: 10/28/15 17:57 | | | | | | |
| Antimony, Total | 718 | 1.9 | mg/kg | 746 | ND | 96 | 75-125 | 0.3 | 20 | |
| Arsenic, Total | 736 | 1.9 | mg/kg | 746 | ND | 99 | 75-125 | 0.4 | 20 | |
| Barium, Total | 801 | 1.9 | mg/kg | 746 | 0.400 | 107 | 75-125 | 0.9 | 20 | |
| Beryllium, Total | 779 | 1.1 | mg/kg | 746 | ND | 104 | 75-125 | 0.5 | 20 | |
| Cadmium, Total | 708 | 0.75 | mg/kg | 746 | ND | 95 | 75-125 | 1 | 20 | |
| Chromium, Total | 796 | 3.7 | mg/kg | 746 | 0.920 | 107 | 75-125 | 0.4 | 20 | |
| Cobalt, Total | 786 | 1.9 | mg/kg | 746 | ND | 105 | 75-125 | 0.1 | 20 | |
| Copper, Total | 796 | 1.9 | mg/kg | 746 | 9.16 | 105 | 75-125 | 0.3 | 20 | |
| Lead, Total | 766 | 1.9 | mg/kg | 746 | ND | 103 | 75-125 | 0.2 | 20 | |
| Molybdenum, Total | 719 | 1.9 | mg/kg | 746 | ND | 96 | 75-125 | 1 | 20 | |
| Nickel, Total | 744 | 3.7 | mg/kg | 746 | ND | 100 | 75-125 | 0.8 | 20 | |
| Selenium, Total | 676 | 1.9 | mg/kg | 746 | ND | 91 | 75-125 | 0.8 | 20 | |
| Silver, Total | 722 | 1.9 | mg/kg | 746 | ND | 97 | 75-125 | 0.2 | 20 | |
| Strontium, Total | 1500 | 1.9 | mg/kg | 1500 | 2.00 | 100 | 75-125 | 0.2 | 20 | |
| Thallium, Total | 725 | 1.9 | mg/kg | 746 | ND | 97 | 75-125 | 0.2 | 20 | |
| Uranium, Total | 758 | 1.9 | mg/kg | 746 | ND | 102 | 75-125 | 0.6 | 20 | |
| Vanadium, Total | 756 | 3.7 | mg/kg | 746 | ND | 101 | 75-125 | 0.3 | 20 | |
| Zinc, Total | 722 | 19 | mg/kg | 746 | ND | 97 | 75-125 | 0.3 | 20 | |

## Semivolatile Organics - Low Level by GC/MS SIM Mode - Quality Control

### Batch W5J0874 - EPA 8270C SIM

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J0874-BLK1)** | | | | Analyzed: 10/29/15 23:06 | | | | | | |
| 1-Methylnaphthalene | ND | 5.0 | ug/kg | | | | | | | |
| 2-Methylnaphthalene | ND | 5.0 | ug/kg | | | | | | | |
| Acenaphthene | ND | 5.0 | ug/kg | | | | | | | |
| Acenaphthylene | ND | 5.0 | ug/kg | | | | | | | |
| Anthracene | ND | 5.0 | ug/kg | | | | | | | |
| Benzo (a) anthracene | ND | 5.0 | ug/kg | | | | | | | |
| Benzo (a) pyrene | ND | 5.0 | ug/kg | | | | | | | |

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## Semivolatile Organics - Low Level by GC/MS SIM Mode - Quality Control

**Batch W5J0874 - EPA 8270C SIM**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J0874-BLK1)** | | | | Analyzed: 10/29/15 23:06 | | | | | | |
| Benzo (b) fluoranthene | ND | 5.0 | ug/kg | | | | | | | |
| Benzo (g,h,i) perylene | ND | 5.0 | ug/kg | | | | | | | |
| Benzo (k) fluoranthene | ND | 5.0 | ug/kg | | | | | | | |
| Chrysene | ND | 5.0 | ug/kg | | | | | | | |
| Dibenzo (a,h) anthracene | ND | 5.0 | ug/kg | | | | | | | |
| Fluoranthene | ND | 5.0 | ug/kg | | | | | | | |
| Fluorene | ND | 5.0 | ug/kg | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 5.0 | ug/kg | | | | | | | |
| Naphthalene | ND | 5.0 | ug/kg | | | | | | | |
| Phenanthrene | ND | 5.0 | ug/kg | | | | | | | |
| Pyrene | ND | 5.0 | ug/kg | | | | | | | |
| *Surr: 2-Fluorobiphenyl* | *110* | | *ug/kg* | *167* | | *66* | *0.1-109* | | | |
| *Surr: Nitrobenzene-d5* | *130* | | *ug/kg* | *167* | | *78* | *0.1-107* | | | |
| *Surr: Terphenyl-d14* | *101* | | *ug/kg* | *167* | | *61* | *28-128* | | | |
| **Matrix Spike (W5J0874-MS1)** | | **Source: 5J02045-01** | | Analyzed: 10/29/15 23:41 | | | | | | |
| Acenaphthene | 3470 | 71 | ug/kg | 4740 | ND | 73 | 5-115 | | | M-02 |
| Acenaphthylene | 2890 | 71 | ug/kg | 4740 | ND | 61 | 8-111 | | | M-02 |
| Anthracene | 3360 | 71 | ug/kg | 4740 | 19.4 | 70 | 3-132 | | | M-02 |
| Benzo (a) anthracene | 4100 | 71 | ug/kg | 4740 | ND | 87 | 14-125 | | | M-02 |
| Benzo (a) pyrene | 3330 | 71 | ug/kg | 4740 | 33.8 | 70 | 2-138 | | | M-02 |
| Benzo (b) fluoranthene | 3260 | 71 | ug/kg | 4740 | 24.1 | 68 | 20-150 | | | M-02 |
| Benzo (g,h,i) perylene | 3280 | 71 | ug/kg | 4740 | ND | 69 | 9-129 | | | M-02 |
| Benzo (k) fluoranthene | 3220 | 71 | ug/kg | 4740 | 23.5 | 68 | 20-150 | | | M-02 |
| Chrysene | 3410 | 71 | ug/kg | 4740 | ND | 72 | 20-150 | | | M-02 |
| Dibenzo (a,h) anthracene | 3400 | 71 | ug/kg | 4740 | ND | 72 | 10-144 | | | M-02 |
| Fluoranthene | 3790 | 71 | ug/kg | 4740 | 24.4 | 80 | 11-127 | | | M-02 |
| Fluorene | 3830 | 71 | ug/kg | 4740 | ND | 81 | 4-125 | | | M-02 |
| Indeno (1,2,3-cd) pyrene | 3290 | 71 | ug/kg | 4740 | ND | 69 | 3-137 | | | M-02 |
| Naphthalene | 2810 | 71 | ug/kg | 4740 | ND | 59 | 0.1-117 | | | M-02 |
| Phenanthrene | 3510 | 71 | ug/kg | 4740 | ND | 74 | 10-122 | | | M-02 |
| Pyrene | 3850 | 71 | ug/kg | 4740 | 22.8 | 81 | 10-128 | | | M-02 |
| *Surr: 2-Fluorobiphenyl* | *1460* | | *ug/kg* | *2370* | | *62* | *0.1-109* | | | *M-02* |
| *Surr: Nitrobenzene-d5* | *1680* | | *ug/kg* | *2370* | | *71* | *0.1-107* | | | *M-02* |
| *Surr: Terphenyl-d14* | *1650* | | *ug/kg* | *2370* | | *70* | *28-128* | | | *M-02* |
| **Matrix Spike (W5J0874-MS2)** | | **Source: 5J02046-01** | | Analyzed: 10/30/15 06:12 | | | | | | |
| Acenaphthene | 4620 | 69 | ug/kg | 4590 | ND | 101 | 5-115 | | | C-3640, M-02 |
| Acenaphthylene | 4220 | 69 | ug/kg | 4590 | 22.0 | 92 | 8-111 | | | C-3640, M-02 |
| Anthracene | 4200 | 69 | ug/kg | 4590 | 20.2 | 91 | 3-132 | | | C-3640, M-02 |

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## Semivolatile Organics - Low Level by GC/MS SIM Mode - Quality Control

**Batch W5J0874 - EPA 8270C SIM**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J0874-MS2)** | **Source: 5J02046-01** | | | Analyzed: 10/30/15 06:12 | | | | | | |
| Benzo (a) anthracene | 4800 | 69 | ug/kg | 4590 | 27.8 | 104 | 14-125 | | | C-3640, M-02 |
| Benzo (a) pyrene | 3080 | 69 | ug/kg | 4590 | 33.3 | 66 | 2-138 | | | C-3640, M-02 |
| Benzo (b) fluoranthene | 3350 | 69 | ug/kg | 4590 | 25.8 | 72 | 20-150 | | | C-3640, M-02 |
| Benzo (g,h,i) perylene | 3750 | 69 | ug/kg | 4590 | ND | 82 | 9-129 | | | C-3640, M-02 |
| Benzo (k) fluoranthene | 3110 | 69 | ug/kg | 4590 | 25.0 | 67 | 20-150 | | | C-3640, M-02 |
| Chrysene | 3840 | 69 | ug/kg | 4590 | ND | 84 | 20-150 | | | C-3640, M-02 |
| Dibenzo (a,h) anthracene | 4030 | 69 | ug/kg | 4590 | ND | 88 | 10-144 | | | C-3640, M-02 |
| Fluoranthene | 4770 | 69 | ug/kg | 4590 | 26.8 | 103 | 11-127 | | | C-3640, M-02 |
| Fluorene | 4970 | 69 | ug/kg | 4590 | ND | 108 | 4-125 | | | C-3640, M-02 |
| Indeno (1,2,3-cd) pyrene | 3770 | 69 | ug/kg | 4590 | ND | 82 | 3-137 | | | C-3640, M-02 |
| Naphthalene | 3470 | 69 | ug/kg | 4590 | ND | 76 | 0.1-117 | | | C-3640, M-02 |
| Phenanthrene | 4460 | 69 | ug/kg | 4590 | ND | 97 | 10-122 | | | C-3640, M-02 |
| Pyrene | 5010 | 69 | ug/kg | 4590 | ND | 109 | 10-128 | | | C-3640, M-02 |
| *Surr: 2-Fluorobiphenyl* | *2090* | | *ug/kg* | *2290* | | *91* | *0.1-109* | | | *C-3640, M-02* |
| *Surr: Nitrobenzene-d5* | *2040* | | *ug/kg* | *2290* | | *89* | *0.1-107* | | | *C-3640, M-02* |
| *Surr: Terphenyl-d14* | *2300* | | *ug/kg* | *2290* | | *100* | *28-128* | | | *C-3640, M-02* |
| **Matrix Spike Dup (W5J0874-MSD1)** | **Source: 5J02045-01** | | | Analyzed: 10/30/15 00:17 | | | | | | |
| Acenaphthene | 3530 | 72 | ug/kg | 4780 | ND | 74 | 5-115 | 2 | 30 | M-02 |
| Acenaphthylene | 2990 | 72 | ug/kg | 4780 | ND | 62 | 8-111 | 3 | 30 | M-02 |
| Anthracene | 3480 | 72 | ug/kg | 4780 | 19.4 | 72 | 3-132 | 3 | 30 | M-02 |
| Benzo (a) anthracene | 3750 | 72 | ug/kg | 4780 | ND | 78 | 14-125 | 9 | 30 | M-02 |
| Benzo (a) pyrene | 3310 | 72 | ug/kg | 4780 | 33.8 | 68 | 2-138 | 0.7 | 30 | M-02 |
| Benzo (b) fluoranthene | 3340 | 72 | ug/kg | 4780 | 24.1 | 69 | 20-150 | 2 | 30 | M-02 |
| Benzo (g,h,i) perylene | 3430 | 72 | ug/kg | 4780 | ND | 72 | 9-129 | 4 | 30 | M-02 |
| Benzo (k) fluoranthene | 3180 | 72 | ug/kg | 4780 | 23.5 | 66 | 20-150 | 1 | 30 | M-02 |
| Chrysene | 3480 | 72 | ug/kg | 4780 | ND | 73 | 20-150 | 2 | 30 | M-02 |
| Dibenzo (a,h) anthracene | 3510 | 72 | ug/kg | 4780 | ND | 73 | 10-144 | 3 | 30 | M-02 |
| Fluoranthene | 3710 | 72 | ug/kg | 4780 | 24.4 | 77 | 11-127 | 2 | 30 | M-02 |
| Fluorene | 3790 | 72 | ug/kg | 4780 | ND | 79 | 4-125 | 1 | 30 | M-02 |
| Indeno (1,2,3-cd) pyrene | 3440 | 72 | ug/kg | 4780 | ND | 72 | 3-137 | 5 | 30 | M-02 |



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Bakersfield, CA 93301 CA, 93301

**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Semivolatile Organics - Low Level by GC/MS SIM Mode - Quality Control

**Batch W5J0874 - EPA 8270C SIM**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5J0874-MSD1)** | **Source: 5J02045-01** | | | Analyzed: 10/30/15 00:17 | | | | | | |
| Naphthalene | 2780 | 72 | ug/kg | 4780 | ND | 58 | 0.1-117 | 1 | 30 | M-02 |
| Phenanthrene | 3700 | 72 | ug/kg | 4780 | ND | 77 | 10-122 | 5 | 30 | M-02 |
| Pyrene | 3690 | 72 | ug/kg | 4780 | 22.8 | 77 | 10-128 | 4 | 30 | M-02 |
| *Surr: 2-Fluorobiphenyl* | *1470* | | *ug/kg* | *2390* | | *61* | *0.1-109* | | | *M-02* |
| *Surr: Nitrobenzene-d5* | *1720* | | *ug/kg* | *2390* | | *72* | *0.1-107* | | | *M-02* |
| *Surr: Terphenyl-d14* | *1520* | | *ug/kg* | *2390* | | *64* | *28-128* | | | *M-02* |
| **Matrix Spike Dup (W5J0874-MSD2)** | **Source: 5J02046-01** | | | Analyzed: 10/30/15 06:47 | | | | | | |
| Acenaphthene | 4190 | 68 | ug/kg | 4520 | ND | 93 | 5-115 | 10 | 30 | C-3640, M-02 |
| Acenaphthylene | 4470 | 68 | ug/kg | 4520 | 22.0 | 98 | 8-111 | 6 | 30 | C-3640, M-02 |
| Anthracene | 3840 | 68 | ug/kg | 4520 | 20.2 | 84 | 3-132 | 9 | 30 | C-3640, M-02 |
| Benzo (a) anthracene | 4460 | 68 | ug/kg | 4520 | 27.8 | 98 | 14-125 | 7 | 30 | C-3640, M-02 |
| Benzo (a) pyrene | 3190 | 68 | ug/kg | 4520 | 33.3 | 70 | 2-138 | 3 | 30 | C-3640, M-02 |
| Benzo (b) fluoranthene | 3400 | 68 | ug/kg | 4520 | 25.8 | 75 | 20-150 | 2 | 30 | C-3640, M-02 |
| Benzo (g,h,i) perylene | 3640 | 68 | ug/kg | 4520 | ND | 80 | 9-129 | 3 | 30 | C-3640, M-02 |
| Benzo (k) fluoranthene | 3210 | 68 | ug/kg | 4520 | 25.0 | 70 | 20-150 | 3 | 30 | C-3640, M-02 |
| Chrysene | 3690 | 68 | ug/kg | 4520 | ND | 81 | 20-150 | 4 | 30 | C-3640, M-02 |
| Dibenzo (a,h) anthracene | 3860 | 68 | ug/kg | 4520 | ND | 85 | 10-144 | 4 | 30 | C-3640, M-02 |
| Fluoranthene | 4280 | 68 | ug/kg | 4520 | 26.8 | 94 | 11-127 | 11 | 30 | C-3640, M-02 |
| Fluorene | 4880 | 68 | ug/kg | 4520 | ND | 108 | 4-125 | 2 | 30 | C-3640, M-02 |
| Indeno (1,2,3-cd) pyrene | 3620 | 68 | ug/kg | 4520 | ND | 80 | 3-137 | 4 | 30 | C-3640, M-02 |
| Naphthalene | 3150 | 68 | ug/kg | 4520 | ND | 70 | 0.1-117 | 10 | 30 | C-3640, M-02 |
| Phenanthrene | 4000 | 68 | ug/kg | 4520 | ND | 88 | 10-122 | 11 | 30 | C-3640, M-02 |
| Pyrene | 4490 | 68 | ug/kg | 4520 | ND | 99 | 10-128 | 11 | 30 | C-3640, M-02 |
| *Surr: 2-Fluorobiphenyl* | *2100* | | *ug/kg* | *2260* | | *93* | *0.1-109* | | | *C-3640, M-02* |
| *Surr: Nitrobenzene-d5* | *2080* | | *ug/kg* | *2260* | | *92* | *0.1-107* | | | *C-3640, M-02* |
| *Surr: Terphenyl-d14* | *1890* | | *ug/kg* | *2260* | | *84* | *28-128* | | | *C-3640, M-02* |

## Volatile Organic Compounds by EPA Method 8260B - Quality Control



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1037-BLK1)** | | | | Analyzed: 10/20/15 14:43 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 2-Butanone | ND | 5.0 | ug/kg | | | | | | | |
| 2-Chloroethyl vinyl ether | ND | 5.0 | ug/kg | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/kg | | | | | | | |
| 2-Hexanone | ND | 5.0 | ug/kg | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/kg | | | | | | | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/kg | | | | | | | |
| Acetone | ND | 5.0 | ug/kg | | | | | | | |
| Acrolein | ND | 5.0 | ug/kg | | | | | | | |
| Acrylonitrile | ND | 5.0 | ug/kg | | | | | | | |
| Benzene | ND | 5.0 | ug/kg | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Bromodichloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Bromoform | ND | 5.0 | ug/kg | | | | | | | |
| Bromomethane | ND | 5.0 | ug/kg | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/kg | | | | | | | |
| Chlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Chloroethane | ND | 5.0 | ug/kg | | | | | | | |
| Chloroform | ND | 5.0 | ug/kg | | | | | | | |
| Chloromethane | ND | 5.0 | ug/kg | | | | | | | |
| cis-1,2-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1037-BLK1)** | | | | Analyzed: 10/20/15 14:43 | | | | | | |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| Dibromochloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Dibromomethane | ND | 5.0 | ug/kg | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 5.0 | ug/kg | | | | | | | |
| Ethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/kg | | | | | | | |
| Isopropylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| m,p-Xylene | ND | 5.0 | ug/kg | | | | | | | |
| m-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 5.0 | ug/kg | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/kg | | | | | | | |
| Naphthalene | ND | 5.0 | ug/kg | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| n-Propylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| o-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| o-Xylene | ND | 5.0 | ug/kg | | | | | | | |
| p-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| p-Isopropyltoluene | ND | 5.0 | ug/kg | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Styrene | ND | 5.0 | ug/kg | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Tetrachloroethene | ND | 5.0 | ug/kg | | | | | | | |
| Toluene | ND | 5.0 | ug/kg | | | | | | | |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| Trichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/kg | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/kg | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *50.2* | | *ug/kg* | *50.0* | | *100* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *49.5* | | *ug/kg* | *50.0* | | *99* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *49.8* | | *ug/kg* | *50.0* | | *100* | *84-120* | | | |
| *Surr: Toluene-d8* | *50.2* | | *ug/kg* | *50.0* | | *100* | *82-120* | | | |
| **LCS (W5J1037-BS1)** | | | | Analyzed: 10/20/15 12:36 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 81-120 | | | |
| 1,1,1-Trichloroethane | 50.6 | 5.0 | ug/kg | 50.0 | | 101 | 78-125 | | | |
| 1,1,2,2-Tetrachloroethane | 49.0 | 5.0 | ug/kg | 50.0 | | 98 | 67-115 | | | |
| 1,1,2-Trichloroethane | 49.1 | 5.0 | ug/kg | 50.0 | | 98 | 85-121 | | | |
| 1,1-Dichloroethane | 47.9 | 5.0 | ug/kg | 50.0 | | 96 | 84-118 | | | |
| 1,1-Dichloroethene | 46.8 | 5.0 | ug/kg | 50.0 | | 94 | 80-123 | | | |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS (W5J1037-BS1)** | | | | Analyzed: 10/20/15 12:36 | | | | | | |
| 1,1-Dichloropropene | 47.4 | 5.0 | ug/kg | 50.0 | | 95 | 79-128 | | | |
| 1,2,3-Trichlorobenzene | 52.4 | 5.0 | ug/kg | 50.0 | | 105 | 36-201 | | | |
| 1,2,3-Trichloropropane | 48.5 | 5.0 | ug/kg | 50.0 | | 97 | 65-115 | | | |
| 1,2,4-Trichlorobenzene | 54.1 | 5.0 | ug/kg | 50.0 | | 108 | 69-143 | | | |
| 1,2,4-Trimethylbenzene | 47.6 | 5.0 | ug/kg | 50.0 | | 95 | 70-119 | | | |
| 1,2-Dibromo-3-chloropropane | 47.8 | 5.0 | ug/kg | 50.0 | | 96 | 62-140 | | | |
| 1,2-Dibromoethane (EDB) | 52.0 | 5.0 | ug/kg | 50.0 | | 104 | 86-125 | | | |
| 1,2-Dichloroethane | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 74-123 | | | |
| 1,2-Dichloropropane | 49.4 | 5.0 | ug/kg | 50.0 | | 99 | 83-122 | | | |
| 1,3,5-Trimethylbenzene | 46.9 | 5.0 | ug/kg | 50.0 | | 94 | 66-122 | | | |
| 1,3-Dichloropropane | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 85-122 | | | |
| 2,2-Dichloropropane | 57.2 | 5.0 | ug/kg | 50.0 | | 114 | 78-124 | | | |
| 2-Butanone | 50.1 | 5.0 | ug/kg | 50.0 | | 100 | 65-139 | | | |
| 2-Chloroethyl vinyl ether | 47.3 | 5.0 | ug/kg | 50.0 | | 95 | 62-134 | | | |
| 2-Chlorotoluene | 47.1 | 5.0 | ug/kg | 50.0 | | 94 | 65-118 | | | |
| 2-Hexanone | 53.3 | 5.0 | ug/kg | 50.0 | | 107 | 72-138 | | | |
| 4-Chlorotoluene | 47.0 | 5.0 | ug/kg | 50.0 | | 94 | 71-116 | | | |
| 4-Methyl-2-pentanone | 49.1 | 5.0 | ug/kg | 50.0 | | 98 | 70-133 | | | |
| Acetone | 47.8 | 5.0 | ug/kg | 50.0 | | 96 | 57-138 | | | |
| Acrolein | 28.3 | 5.0 | ug/kg | 50.0 | | 57 | 57-139 | | | |
| Acrylonitrile | 45.6 | 5.0 | ug/kg | 50.0 | | 91 | 78-124 | | | |
| Benzene | 47.1 | 5.0 | ug/kg | 50.0 | | 94 | 83-121 | | | |
| Bromobenzene | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 67-115 | | | |
| Bromochloromethane | 50.2 | 5.0 | ug/kg | 50.0 | | 100 | 82-117 | | | |
| Bromodichloromethane | 48.9 | 5.0 | ug/kg | 50.0 | | 98 | 78-122 | | | |
| Bromoform | 47.6 | 5.0 | ug/kg | 50.0 | | 95 | 83-125 | | | |
| Bromomethane | 47.7 | 5.0 | ug/kg | 50.0 | | 95 | 58-133 | | | |
| Carbon tetrachloride | 46.4 | 5.0 | ug/kg | 50.0 | | 93 | 79-126 | | | |
| Chlorobenzene | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 84-118 | | | |
| Chloroethane | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 58-135 | | | |
| Chloroform | 47.8 | 5.0 | ug/kg | 50.0 | | 96 | 80-123 | | | |
| Chloromethane | 45.3 | 5.0 | ug/kg | 50.0 | | 91 | 58-128 | | | |
| cis-1,2-Dichloroethene | 48.0 | 5.0 | ug/kg | 50.0 | | 96 | 83-120 | | | |
| cis-1,3-Dichloropropene | 52.4 | 5.0 | ug/kg | 50.0 | | 105 | 88-123 | | | |
| Dibromochloromethane | 48.2 | 5.0 | ug/kg | 50.0 | | 96 | 83-124 | | | |
| Dibromomethane | 48.1 | 5.0 | ug/kg | 50.0 | | 96 | 84-123 | | | |
| Dichlorodifluoromethane (Freon 12) | 47.8 | 5.0 | ug/kg | 50.0 | | 96 | 67-126 | | | |
| Ethylbenzene | 46.9 | 5.0 | ug/kg | 50.0 | | 94 | 80-120 | | | |
| Hexachlorobutadiene | 46.9 | 5.0 | ug/kg | 50.0 | | 94 | 70-130 | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS (W5J1037-BS1)** | | | | Analyzed: 10/20/15 12:36 | | | | | | |
| Isopropylbenzene | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 66-122 | | | |
| m,p-Xylene | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 78-120 | | | |
| m-Dichlorobenzene | 47.6 | 5.0 | ug/kg | 50.0 | | 95 | 75-119 | | | |
| Methyl tert-butyl ether (MTBE) | 66.4 | 5.0 | ug/kg | 50.0 | | 133 | 83-122 | | | Q-ME |
| Methylene chloride | 47.6 | 5.0 | ug/kg | 50.0 | | 95 | 76-118 | | | |
| Naphthalene | 50.4 | 5.0 | ug/kg | 50.0 | | 101 | 42-190 | | | |
| n-Butylbenzene | 47.7 | 5.0 | ug/kg | 50.0 | | 95 | 68-119 | | | |
| n-Propylbenzene | 46.8 | 5.0 | ug/kg | 50.0 | | 94 | 64-120 | | | |
| o-Dichlorobenzene | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 77-117 | | | |
| o-Xylene | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 77-126 | | | |
| p-Dichlorobenzene | 47.3 | 5.0 | ug/kg | 50.0 | | 95 | 76-119 | | | |
| p-Isopropyltoluene | 47.6 | 5.0 | ug/kg | 50.0 | | 95 | 70-123 | | | |
| sec-Butylbenzene | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 67-120 | | | |
| Styrene | 47.8 | 5.0 | ug/kg | 50.0 | | 96 | 84-125 | | | |
| tert-Butylbenzene | 46.2 | 5.0 | ug/kg | 50.0 | | 92 | 70-119 | | | |
| Tetrachloroethene | 47.0 | 5.0 | ug/kg | 50.0 | | 94 | 80-129 | | | |
| Toluene | 45.3 | 5.0 | ug/kg | 50.0 | | 91 | 81-126 | | | |
| trans-1,2-Dichloroethene | 47.7 | 5.0 | ug/kg | 50.0 | | 95 | 82-123 | | | |
| trans-1,3-Dichloropropene | 53.0 | 5.0 | ug/kg | 50.0 | | 106 | 81-131 | | | |
| Trichloroethene | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 82-118 | | | |
| Trichlorofluoromethane | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 72-129 | | | |
| Vinyl chloride | 47.6 | 5.0 | ug/kg | 50.0 | | 95 | 63-130 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *50.9* | | *ug/kg* | *50.0* | | *102* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *50.4* | | *ug/kg* | *50.0* | | *101* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *50.7* | | *ug/kg* | *50.0* | | *101* | *84-120* | | | |
| *Surr: Toluene-d8* | *50.2* | | *ug/kg* | *50.0* | | *100* | *82-120* | | | |
| **LCS Dup (W5J1037-BSD1)** | | | | Analyzed: 10/20/15 13:08 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 51.1 | 5.0 | ug/kg | 50.0 | | 102 | 81-120 | 8 | 25 | |
| 1,1,1-Trichloroethane | 53.6 | 5.0 | ug/kg | 50.0 | | 107 | 78-125 | 6 | 25 | |
| 1,1,2,2-Tetrachloroethane | 50.2 | 5.0 | ug/kg | 50.0 | | 100 | 67-115 | 2 | 25 | |
| 1,1,2-Trichloroethane | 48.3 | 5.0 | ug/kg | 50.0 | | 97 | 85-121 | 2 | 25 | |
| 1,1-Dichloroethane | 47.1 | 5.0 | ug/kg | 50.0 | | 94 | 84-118 | 2 | 25 | |
| 1,1-Dichloroethene | 46.2 | 5.0 | ug/kg | 50.0 | | 92 | 80-123 | 1 | 25 | |
| 1,1-Dichloropropene | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 79-128 | 2 | 25 | |
| 1,2,3-Trichlorobenzene | 50.9 | 5.0 | ug/kg | 50.0 | | 102 | 36-201 | 3 | 25 | |
| 1,2,3-Trichloropropane | 48.6 | 5.0 | ug/kg | 50.0 | | 97 | 65-115 | 0.4 | 25 | |
| 1,2,4-Trichlorobenzene | 52.1 | 5.0 | ug/kg | 50.0 | | 104 | 69-143 | 4 | 25 | |
| 1,2,4-Trimethylbenzene | 47.0 | 5.0 | ug/kg | 50.0 | | 94 | 70-119 | 1 | 25 | |
| 1,2-Dibromo-3-chloropropane | 53.5 | 5.0 | ug/kg | 50.0 | | 107 | 62-140 | 11 | 25 | |

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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS Dup (W5J1037-BSD1)** | | | | Analyzed: 10/20/15 13:08 | | | | | | |
| 1,2-Dibromoethane (EDB) | 53.6 | 5.0 | ug/kg | 50.0 | | 107 | 86-125 | 3 | 25 | |
| 1,2-Dichloroethane | 46.3 | 5.0 | ug/kg | 50.0 | | 93 | 74-123 | 2 | 25 | |
| 1,2-Dichloropropane | 49.0 | 5.0 | ug/kg | 50.0 | | 98 | 83-122 | 0.9 | 25 | |
| 1,3,5-Trimethylbenzene | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 66-122 | 0.5 | 25 | |
| 1,3-Dichloropropane | 47.8 | 5.0 | ug/kg | 50.0 | | 96 | 85-122 | 2 | 25 | |
| 2,2-Dichloropropane | 60.8 | 5.0 | ug/kg | 50.0 | | 122 | 78-124 | 6 | 25 | |
| 2-Butanone | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 65-139 | 7 | 25 | |
| 2-Chloroethyl vinyl ether | 46.4 | 5.0 | ug/kg | 50.0 | | 93 | 62-134 | 2 | 25 | |
| 2-Chlorotoluene | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 65-118 | 0.9 | 25 | |
| 2-Hexanone | 50.7 | 5.0 | ug/kg | 50.0 | | 101 | 72-138 | 5 | 25 | |
| 4-Chlorotoluene | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 71-116 | 1 | 25 | |
| 4-Methyl-2-pentanone | 47.0 | 5.0 | ug/kg | 50.0 | | 94 | 70-133 | 4 | 25 | |
| Acetone | 44.9 | 5.0 | ug/kg | 50.0 | | 90 | 57-138 | 6 | 25 | |
| Acrolein | 32.5 | 5.0 | ug/kg | 50.0 | | 65 | 57-139 | 14 | 25 | |
| Acrylonitrile | 44.5 | 5.0 | ug/kg | 50.0 | | 89 | 78-124 | 2 | 25 | |
| Benzene | 46.1 | 5.0 | ug/kg | 50.0 | | 92 | 83-121 | 2 | 25 | |
| Bromobenzene | 47.0 | 5.0 | ug/kg | 50.0 | | 94 | 67-115 | 0.9 | 25 | |
| Bromochloromethane | 49.0 | 5.0 | ug/kg | 50.0 | | 98 | 82-117 | 2 | 25 | |
| Bromodichloromethane | 50.6 | 5.0 | ug/kg | 50.0 | | 101 | 78-122 | 3 | 25 | |
| Bromoform | 50.2 | 5.0 | ug/kg | 50.0 | | 100 | 83-125 | 5 | 25 | |
| Bromomethane | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 58-133 | 2 | 25 | |
| Carbon tetrachloride | 50.2 | 5.0 | ug/kg | 50.0 | | 100 | 79-126 | 8 | 25 | |
| Chlorobenzene | 45.8 | 5.0 | ug/kg | 50.0 | | 92 | 84-118 | 1 | 25 | |
| Chloroethane | 46.3 | 5.0 | ug/kg | 50.0 | | 93 | 58-135 | 0.6 | 25 | |
| Chloroform | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 80-123 | 2 | 25 | |
| Chloromethane | 45.5 | 5.0 | ug/kg | 50.0 | | 91 | 58-128 | 0.5 | 25 | |
| cis-1,2-Dichloroethene | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 83-120 | 3 | 25 | |
| cis-1,3-Dichloropropene | 55.0 | 5.0 | ug/kg | 50.0 | | 110 | 88-123 | 5 | 25 | |
| Dibromochloromethane | 51.1 | 5.0 | ug/kg | 50.0 | | 102 | 83-124 | 6 | 25 | |
| Dibromomethane | 47.3 | 5.0 | ug/kg | 50.0 | | 95 | 84-123 | 2 | 25 | |
| Dichlorodifluoromethane (Freon 12) | 46.9 | 5.0 | ug/kg | 50.0 | | 94 | 67-126 | 2 | 25 | |
| Ethylbenzene | 45.9 | 5.0 | ug/kg | 50.0 | | 92 | 80-120 | 2 | 25 | |
| Hexachlorobutadiene | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 70-130 | 0.9 | 25 | |
| Isopropylbenzene | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 66-122 | 0.2 | 25 | |
| m,p-Xylene | 45.7 | 5.0 | ug/kg | 50.0 | | 91 | 78-120 | 2 | 25 | |
| m-Dichlorobenzene | 47.4 | 5.0 | ug/kg | 50.0 | | 95 | 75-119 | 0.4 | 25 | |
| Methyl tert-butyl ether (MTBE) | 66.4 | 5.0 | ug/kg | 50.0 | | 133 | 83-122 | 0.08 | 25 | Q-ME |
| Methylene chloride | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 76-118 | 2 | 25 | |
| Naphthalene | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 42-190 | 3 | 25 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS Dup (W5J1037-BSD1)** | | | | Analyzed: 10/20/15 13:08 | | | | | | |
| n-Butylbenzene | 47.1 | 5.0 | ug/kg | 50.0 | | 94 | 68-119 | 1 | 25 | |
| n-Propylbenzene | 47.1 | 5.0 | ug/kg | 50.0 | | 94 | 64-120 | 0.6 | 25 | |
| o-Dichlorobenzene | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 77-117 | 0.5 | 25 | |
| o-Xylene | 46.4 | 5.0 | ug/kg | 50.0 | | 93 | 77-126 | 2 | 25 | |
| p-Dichlorobenzene | 47.0 | 5.0 | ug/kg | 50.0 | | 94 | 76-119 | 0.7 | 25 | |
| p-Isopropyltoluene | 47.3 | 5.0 | ug/kg | 50.0 | | 95 | 70-123 | 0.5 | 25 | |
| sec-Butylbenzene | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 67-120 | 0.3 | 25 | |
| Styrene | 46.9 | 5.0 | ug/kg | 50.0 | | 94 | 84-125 | 2 | 25 | |
| tert-Butylbenzene | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 70-119 | 0.6 | 25 | |
| Tetrachloroethene | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 80-129 | 0.8 | 25 | |
| Toluene | 45.0 | 5.0 | ug/kg | 50.0 | | 90 | 81-126 | 0.6 | 25 | |
| trans-1,2-Dichloroethene | 46.2 | 5.0 | ug/kg | 50.0 | | 92 | 82-123 | 3 | 25 | |
| trans-1,3-Dichloropropene | 56.2 | 5.0 | ug/kg | 50.0 | | 112 | 81-131 | 6 | 25 | |
| Trichloroethene | 46.4 | 5.0 | ug/kg | 50.0 | | 93 | 82-118 | 2 | 25 | |
| Trichlorofluoromethane | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 72-129 | 1 | 25 | |
| Vinyl chloride | 47.1 | 5.0 | ug/kg | 50.0 | | 94 | 63-130 | 1 | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *50.0* | | *ug/kg* | *50.0* | | *100* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *50.0* | | *ug/kg* | *50.0* | | *100* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *50.3* | | *ug/kg* | *50.0* | | *101* | *84-120* | | | |
| *Surr: Toluene-d8* | *50.2* | | *ug/kg* | *50.0* | | *100* | *82-120* | | | |
| **Duplicate (W5J1037-DUP1)** | | **Source: 5I25014-01** | | Analyzed: 10/20/15 17:21 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |

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**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP1)** | **Source: 5I25014-01** | | | Analyzed: 10/20/15 17:21 | | | | | | |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acetone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |

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**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP1)** | **Source: 5I25014-01** | | | Analyzed: 10/20/15 17:21 | | | | | | |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *247* | | *ug/kg* | *242* | | *102* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *236* | | *ug/kg* | *242* | | *97* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *239* | | *ug/kg* | *242* | | *99* | *84-120* | | | |
| *Surr: Toluene-d8* | *241* | | *ug/kg* | *242* | | *99* | *82-120* | | | |
| **Duplicate (W5J1037-DUP2)** | **Source: 5I25014-02** | | | Analyzed: 10/20/15 18:24 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2-Trichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,3,5-Trimethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2-Butanone | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2-Chloroethyl vinyl ether | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2-Chlorotoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 25 | ug/kg | | ND | | | NR | 25 | |

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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP2)** | **Source: 5I25014-02** | | | Analyzed: 10/20/15 18:24 | | | | | | |
| Acetone | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Acrolein | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromodichloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromoform | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Chloroform | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Chloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Ethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| m,p-Xylene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| m-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Naphthalene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| n-Propylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| o-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| o-Xylene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| sec-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Styrene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| tert-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |



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Bakersfield, CA 93301 CA, 93301

**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP2)** | **Source: 5I25014-02** | | | Analyzed: 10/20/15 18:24 | | | | | | |
| trans-1,3-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Trichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *250* | | *ug/kg* | *248* | | *101* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *243* | | *ug/kg* | *248* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *240* | | *ug/kg* | *248* | | *97* | *84-120* | | | |
| *Surr: Toluene-d8* | *250* | | *ug/kg* | *248* | | *101* | *82-120* | | | |
| **Duplicate (W5J1037-DUP3)** | **Source: 5I25014-03** | | | Analyzed: 10/20/15 19:27 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acetone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |

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**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP3)** | **Source: 5I25014-03** | | | Analyzed: 10/20/15 19:27 | | | | | | |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *248* | | *ug/kg* | *243* | | *102* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *238* | | *ug/kg* | *243* | | *98* | *85-116* | | | |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP3)** | | **Source: 5I25014-03** | | Analyzed: 10/20/15 19:27 | | | | | | |
| *Surr: Dibromofluoromethane* | *237* | | *ug/kg* | *243* | | *98* | *84-120* | | | |
| *Surr: Toluene-d8* | *241* | | *ug/kg* | *243* | | *99* | *82-120* | | | |
| **Duplicate (W5J1037-DUP4)** | | **Source: 5J02045-01** | | Analyzed: 10/20/15 20:30 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acetone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP4)** | **Source: 5J02045-01** | | | Analyzed: 10/20/15 20:30 | | | | | | |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *233* | | *ug/kg* | *240* | | *97* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *236* | | *ug/kg* | *240* | | *99* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *231* | | *ug/kg* | *240* | | *96* | *84-120* | | | |
| *Surr: Toluene-d8* | *241* | | *ug/kg* | *240* | | *101* | *82-120* | | | |
| **Duplicate (W5J1037-DUP5)** | **Source: 5J02045-02** | | | Analyzed: 10/20/15 21:33 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP5)** | **Source: 5J02045-02** | | | Analyzed: 10/20/15 21:33 | | | | | | |
| 1,1,2-Trichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,3,5-Trimethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2-Butanone | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2-Chloroethyl vinyl ether | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2-Chlorotoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Acetone | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Acrolein | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromodichloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromoform | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Chloroform | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Chloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP5)** | **Source: 5J02045-02** | | | Analyzed: 10/20/15 21:33 | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Ethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| m,p-Xylene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| m-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Naphthalene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| n-Propylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| o-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| o-Xylene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| sec-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Styrene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| tert-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| trans-1,3-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Trichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 25 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *250* | | *ug/kg* | *247* | | *101* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *242* | | *ug/kg* | *247* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *237* | | *ug/kg* | *247* | | *96* | *84-120* | | | |
| *Surr: Toluene-d8* | *247* | | *ug/kg* | *247* | | *100* | *82-120* | | | |
| **Duplicate (W5J1037-DUP6)** | **Source: 5J02045-03** | | | Analyzed: 10/20/15 22:36 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |

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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP6)** | **Source: 5J02045-03** | | | Analyzed: 10/20/15 22:36 | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acetone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |



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**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP6)** | **Source: 5J02045-03** | | | Analyzed: 10/20/15 22:36 | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *239* | | *ug/kg* | *237* | | *101* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *232* | | *ug/kg* | *237* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *229* | | *ug/kg* | *237* | | *97* | *84-120* | | | |
| *Surr: Toluene-d8* | *235* | | *ug/kg* | *237* | | *99* | *82-120* | | | |
| **Duplicate (W5J1037-DUP7)** | **Source: 5J02045-04** | | | Analyzed: 10/20/15 23:39 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP7)** | **Source: 5J02045-04** | | | Analyzed: 10/20/15 23:39 | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acetone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1037-DUP7)** | | **Source: 5J02045-04** | | Analyzed: 10/20/15 23:39 | | | | | | |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *247* | | *ug/kg* | *241* | | *102* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *237* | | *ug/kg* | *241* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *232* | | *ug/kg* | *241* | | *96* | *84-120* | | | |
| *Surr: Toluene-d8* | *242* | | *ug/kg* | *241* | | *101* | *82-120* | | | |
| **Matrix Spike (W5J1037-MS1)** | | **Source: 5I25014-01** | | Analyzed: 10/21/15 00:11 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 184 | 25 | ug/kg | 245 | ND | 75 | 50-150 | | | |
| 1,1,1-Trichloroethane | 205 | 25 | ug/kg | 245 | ND | 83 | 50-150 | | | |
| 1,1,2,2-Tetrachloroethane | 202 | 25 | ug/kg | 245 | ND | 82 | 50-150 | | | |
| 1,1,2-Trichloroethane | 213 | 25 | ug/kg | 245 | ND | 87 | 50-150 | | | |
| 1,1-Dichloroethane | 222 | 25 | ug/kg | 245 | ND | 91 | 50-150 | | | |
| 1,1-Dichloroethene | 223 | 25 | ug/kg | 245 | ND | 91 | 38-139 | | | |
| 1,1-Dichloropropene | 224 | 25 | ug/kg | 245 | ND | 91 | 50-150 | | | |
| 1,2,3-Trichlorobenzene | 225 | 25 | ug/kg | 245 | ND | 92 | 50-150 | | | |
| 1,2,3-Trichloropropane | 219 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| 1,2,4-Trichlorobenzene | 234 | 25 | ug/kg | 245 | ND | 95 | 50-150 | | | |
| 1,2,4-Trimethylbenzene | 227 | 25 | ug/kg | 245 | ND | 93 | 50-150 | | | |
| 1,2-Dibromo-3-chloropropane | 167 | 25 | ug/kg | 245 | ND | 68 | 50-150 | | | |
| 1,2-Dibromoethane (EDB) | 197 | 25 | ug/kg | 245 | ND | 80 | 50-150 | | | |
| 1,2-Dichloroethane | 222 | 25 | ug/kg | 245 | ND | 91 | 50-150 | | | |
| 1,2-Dichloropropane | 222 | 25 | ug/kg | 245 | ND | 91 | 50-150 | | | |
| 1,3,5-Trimethylbenzene | 227 | 25 | ug/kg | 245 | ND | 92 | 50-150 | | | |
| 1,3-Dichloropropane | 219 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| 2,2-Dichloropropane | 228 | 25 | ug/kg | 245 | ND | 93 | 50-150 | | | |
| 2-Butanone | 234 | 25 | ug/kg | 245 | ND | 95 | 50-150 | | | |
| 2-Chloroethyl vinyl ether | 195 | 25 | ug/kg | 245 | ND | 80 | 50-150 | | | |
| 2-Chlorotoluene | 225 | 25 | ug/kg | 245 | ND | 92 | 50-150 | | | |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J1037-MS1)** | **Source: 5I25014-01** | | | Analyzed: 10/21/15 00:11 | | | | | | |
| 2-Hexanone | 204 | 25 | ug/kg | 245 | ND | 83 | 50-150 | | | |
| 4-Chlorotoluene | 224 | 25 | ug/kg | 245 | ND | 91 | 50-150 | | | |
| 4-Methyl-2-pentanone | 192 | 25 | ug/kg | 245 | ND | 78 | 50-150 | | | |
| Acetone | 198 | 25 | ug/kg | 245 | ND | 81 | 50-150 | | | |
| Acrolein | 93.3 | 25 | ug/kg | 245 | ND | 38 | 50-150 | | | |
| Acrylonitrile | 206 | 25 | ug/kg | 245 | ND | 84 | 50-150 | | | |
| Benzene | 222 | 25 | ug/kg | 245 | ND | 90 | 30-134 | | | |
| Bromobenzene | 219 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| Bromochloromethane | 236 | 25 | ug/kg | 245 | ND | 96 | 50-150 | | | |
| Bromodichloromethane | 195 | 25 | ug/kg | 245 | ND | 80 | 50-150 | | | |
| Bromoform | 178 | 25 | ug/kg | 245 | ND | 73 | 50-150 | | | |
| Bromomethane | 60.2 | 25 | ug/kg | 245 | ND | 25 | 50-150 | | | |
| Carbon tetrachloride | 184 | 25 | ug/kg | 245 | ND | 75 | 50-150 | | | |
| Chlorobenzene | 217 | 25 | ug/kg | 245 | ND | 88 | 3-135 | | | |
| Chloroethane | 215 | 25 | ug/kg | 245 | ND | 88 | 50-150 | | | |
| Chloroform | 219 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| Chloromethane | 207 | 25 | ug/kg | 245 | ND | 84 | 50-150 | | | |
| cis-1,2-Dichloroethene | 222 | 25 | ug/kg | 245 | ND | 91 | 50-150 | | | |
| cis-1,3-Dichloropropene | 208 | 25 | ug/kg | 245 | ND | 85 | 50-150 | | | |
| Dibromochloromethane | 181 | 25 | ug/kg | 245 | ND | 74 | 50-150 | | | |
| Dibromomethane | 218 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| Dichlorodifluoromethane (Freon 12) | 215 | 25 | ug/kg | 245 | ND | 88 | 50-150 | | | |
| Ethylbenzene | 220 | 25 | ug/kg | 245 | ND | 90 | 50-150 | | | |
| Hexachlorobutadiene | 201 | 25 | ug/kg | 245 | ND | 82 | 50-150 | | | |
| Isopropylbenzene | 227 | 25 | ug/kg | 245 | ND | 92 | 50-150 | | | |
| m,p-Xylene | 217 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| m-Dichlorobenzene | 219 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| Methyl tert-butyl ether (MTBE) | 298 | 25 | ug/kg | 245 | ND | 122 | 50-150 | | | |
| Methylene chloride | 221 | 25 | ug/kg | 245 | ND | 90 | 50-150 | | | |
| Naphthalene | 213 | 25 | ug/kg | 245 | ND | 87 | 50-150 | | | |
| n-Butylbenzene | 225 | 25 | ug/kg | 245 | ND | 92 | 50-150 | | | |
| n-Propylbenzene | 227 | 25 | ug/kg | 245 | ND | 92 | 50-150 | | | |
| o-Dichlorobenzene | 217 | 25 | ug/kg | 245 | ND | 88 | 50-150 | | | |
| o-Xylene | 220 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| p-Dichlorobenzene | 218 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| p-Isopropyltoluene | 224 | 25 | ug/kg | 245 | ND | 91 | 50-150 | | | |
| sec-Butylbenzene | 227 | 25 | ug/kg | 245 | ND | 93 | 50-150 | | | |
| Styrene | 218 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| tert-Butylbenzene | 224 | 25 | ug/kg | 245 | ND | 91 | 50-150 | | | |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J1037-MS1)** | **Source: 5I25014-01** | | | Analyzed: 10/21/15 00:11 | | | | | | |
| Tetrachloroethene | 217 | 25 | ug/kg | 245 | ND | 88 | 50-150 | | | |
| Toluene | 209 | 25 | ug/kg | 245 | ND | 85 | 11-140 | | | |
| trans-1,2-Dichloroethene | 225 | 25 | ug/kg | 245 | ND | 92 | 50-150 | | | |
| trans-1,3-Dichloropropene | 203 | 25 | ug/kg | 245 | ND | 83 | 50-150 | | | |
| Trichloroethene | 220 | 25 | ug/kg | 245 | ND | 90 | 10-144 | | | |
| Trichlorofluoromethane | 218 | 25 | ug/kg | 245 | ND | 89 | 50-150 | | | |
| Vinyl chloride | 210 | 25 | ug/kg | 245 | ND | 86 | 50-150 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *245* | | *ug/kg* | *245* | | *100* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *241* | | *ug/kg* | *245* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *241* | | *ug/kg* | *245* | | *98* | *84-120* | | | |
| *Surr: Toluene-d8* | *244* | | *ug/kg* | *245* | | *99* | *82-120* | | | |
| **Matrix Spike (W5J1037-MS2)** | **Source: 5J02045-01** | | | Analyzed: 10/21/15 01:14 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 228 | 24 | ug/kg | 239 | ND | 95 | 50-150 | | | |
| 1,1,1-Trichloroethane | 247 | 24 | ug/kg | 239 | ND | 103 | 50-150 | | | |
| 1,1,2,2-Tetrachloroethane | 214 | 24 | ug/kg | 239 | ND | 89 | 50-150 | | | |
| 1,1,2-Trichloroethane | 219 | 24 | ug/kg | 239 | ND | 91 | 50-150 | | | |
| 1,1-Dichloroethane | 227 | 24 | ug/kg | 239 | ND | 95 | 50-150 | | | |
| 1,1-Dichloroethene | 221 | 24 | ug/kg | 239 | ND | 92 | 38-139 | | | |
| 1,1-Dichloropropene | 223 | 24 | ug/kg | 239 | ND | 93 | 50-150 | | | |
| 1,2,3-Trichlorobenzene | 230 | 24 | ug/kg | 239 | ND | 96 | 50-150 | | | |
| 1,2,3-Trichloropropane | 221 | 24 | ug/kg | 239 | ND | 92 | 50-150 | | | |
| 1,2,4-Trichlorobenzene | 231 | 24 | ug/kg | 239 | ND | 97 | 50-150 | | | |
| 1,2,4-Trimethylbenzene | 226 | 24 | ug/kg | 239 | ND | 94 | 50-150 | | | |
| 1,2-Dibromo-3-chloropropane | 215 | 24 | ug/kg | 239 | ND | 90 | 50-150 | | | |
| 1,2-Dibromoethane (EDB) | 241 | 24 | ug/kg | 239 | ND | 101 | 50-150 | | | |
| 1,2-Dichloroethane | 222 | 24 | ug/kg | 239 | ND | 93 | 50-150 | | | |
| 1,2-Dichloropropane | 231 | 24 | ug/kg | 239 | ND | 97 | 50-150 | | | |
| 1,3,5-Trimethylbenzene | 224 | 24 | ug/kg | 239 | ND | 94 | 50-150 | | | |
| 1,3-Dichloropropane | 220 | 24 | ug/kg | 239 | ND | 92 | 50-150 | | | |
| 2,2-Dichloropropane | 289 | 24 | ug/kg | 239 | ND | 120 | 50-150 | | | |
| 2-Butanone | 288 | 24 | ug/kg | 239 | ND | 120 | 50-150 | | | |
| 2-Chloroethyl vinyl ether | 204 | 24 | ug/kg | 239 | ND | 85 | 50-150 | | | |
| 2-Chlorotoluene | 224 | 24 | ug/kg | 239 | ND | 94 | 50-150 | | | |
| 2-Hexanone | 210 | 24 | ug/kg | 239 | ND | 88 | 50-150 | | | |
| 4-Chlorotoluene | 223 | 24 | ug/kg | 239 | ND | 93 | 50-150 | | | |
| 4-Methyl-2-pentanone | 197 | 24 | ug/kg | 239 | ND | 82 | 50-150 | | | |
| Acetone | 193 | 24 | ug/kg | 239 | ND | 81 | 50-150 | | | |
| Acrolein | 138 | 24 | ug/kg | 239 | ND | 58 | 50-150 | | | |
| Acrylonitrile | 198 | 24 | ug/kg | 239 | ND | 83 | 50-150 | | | |



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Bakersfield, CA 93301 CA, 93301

**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J1037-MS2)** | **Source: 5J02045-01** | | | Analyzed: 10/21/15 01:14 | | | | | | |
| Benzene | 222 | 24 | ug/kg | 239 | ND | 93 | 30-134 | | | |
| Bromobenzene | 221 | 24 | ug/kg | 239 | ND | 92 | 50-150 | | | |
| Bromochloromethane | 238 | 24 | ug/kg | 239 | ND | 99 | 50-150 | | | |
| Bromodichloromethane | 228 | 24 | ug/kg | 239 | ND | 95 | 50-150 | | | |
| Bromoform | 213 | 24 | ug/kg | 239 | ND | 89 | 50-150 | | | |
| Bromomethane | 128 | 24 | ug/kg | 239 | ND | 54 | 50-150 | | | |
| Carbon tetrachloride | 229 | 24 | ug/kg | 239 | ND | 95 | 50-150 | | | |
| Chlorobenzene | 221 | 24 | ug/kg | 239 | ND | 92 | 3-135 | | | |
| Chloroethane | 192 | 24 | ug/kg | 239 | ND | 80 | 50-150 | | | |
| Chloroform | 224 | 24 | ug/kg | 239 | ND | 94 | 50-150 | | | |
| Chloromethane | 210 | 24 | ug/kg | 239 | ND | 88 | 50-150 | | | |
| cis-1,2-Dichloroethene | 228 | 24 | ug/kg | 239 | ND | 95 | 50-150 | | | |
| cis-1,3-Dichloropropene | 250 | 24 | ug/kg | 239 | ND | 104 | 50-150 | | | |
| Dibromochloromethane | 217 | 24 | ug/kg | 239 | ND | 91 | 50-150 | | | |
| Dibromomethane | 220 | 24 | ug/kg | 239 | ND | 92 | 50-150 | | | |
| Dichlorodifluoromethane (Freon 12) | 218 | 24 | ug/kg | 239 | ND | 91 | 50-150 | | | |
| Ethylbenzene | 223 | 24 | ug/kg | 239 | ND | 93 | 50-150 | | | |
| Hexachlorobutadiene | 216 | 24 | ug/kg | 239 | ND | 90 | 50-150 | | | |
| Isopropylbenzene | 228 | 24 | ug/kg | 239 | ND | 95 | 50-150 | | | |
| m,p-Xylene | 220 | 24 | ug/kg | 239 | ND | 92 | 50-150 | | | |
| m-Dichlorobenzene | 218 | 24 | ug/kg | 239 | ND | 91 | 50-150 | | | |
| Methyl tert-butyl ether (MTBE) | 327 | 24 | ug/kg | 239 | ND | 137 | 50-150 | | | |
| Methylene chloride | 223 | 24 | ug/kg | 239 | ND | 93 | 50-150 | | | |
| Naphthalene | 219 | 24 | ug/kg | 239 | ND | 92 | 50-150 | | | |
| n-Butylbenzene | 223 | 24 | ug/kg | 239 | ND | 93 | 50-150 | | | |
| n-Propylbenzene | 226 | 24 | ug/kg | 239 | ND | 94 | 50-150 | | | |
| o-Dichlorobenzene | 218 | 24 | ug/kg | 239 | ND | 91 | 50-150 | | | |
| o-Xylene | 225 | 24 | ug/kg | 239 | ND | 94 | 50-150 | | | |
| p-Dichlorobenzene | 216 | 24 | ug/kg | 239 | ND | 90 | 50-150 | | | |
| p-Isopropyltoluene | 226 | 24 | ug/kg | 239 | ND | 94 | 50-150 | | | |
| sec-Butylbenzene | 227 | 24 | ug/kg | 239 | ND | 95 | 50-150 | | | |
| Styrene | 223 | 24 | ug/kg | 239 | ND | 93 | 50-150 | | | |
| tert-Butylbenzene | 228 | 24 | ug/kg | 239 | ND | 95 | 50-150 | | | |
| Tetrachloroethene | 218 | 24 | ug/kg | 239 | ND | 91 | 50-150 | | | |
| Toluene | 211 | 24 | ug/kg | 239 | ND | 88 | 11-140 | | | |
| trans-1,2-Dichloroethene | 225 | 24 | ug/kg | 239 | ND | 94 | 50-150 | | | |
| trans-1,3-Dichloropropene | 256 | 24 | ug/kg | 239 | ND | 107 | 50-150 | | | |
| Trichloroethene | 222 | 24 | ug/kg | 239 | ND | 93 | 10-144 | | | |
| Trichlorofluoromethane | 223 | 24 | ug/kg | 239 | ND | 93 | 50-150 | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J1037-MS2)** | **Source: 5J02045-01** | | | Analyzed: 10/21/15 01:14 | | | | | | |
| Vinyl chloride | 214 | 24 | ug/kg | 239 | ND | 89 | 50-150 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *237* | | *ug/kg* | *239* | | *99* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *238* | | *ug/kg* | *239* | | *99* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *240* | | *ug/kg* | *239* | | *100* | *84-120* | | | |
| *Surr: Toluene-d8* | *237* | | *ug/kg* | *239* | | *99* | *82-120* | | | |
| **Matrix Spike Dup (W5J1037-MSD1)** | **Source: 5I25014-01** | | | Analyzed: 10/21/15 00:42 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 217 | 24 | ug/kg | 241 | ND | 90 | 50-150 | 16 | 25 | |
| 1,1,1-Trichloroethane | 246 | 24 | ug/kg | 241 | ND | 102 | 50-150 | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | 227 | 24 | ug/kg | 241 | ND | 94 | 50-150 | NR | 25 | |
| 1,1,2-Trichloroethane | 231 | 24 | ug/kg | 241 | ND | 96 | 50-150 | NR | 25 | |
| 1,1-Dichloroethane | 239 | 24 | ug/kg | 241 | ND | 100 | 50-150 | 7 | 25 | |
| 1,1-Dichloroethene | 240 | 24 | ug/kg | 241 | ND | 100 | 38-139 | NR | 25 | |
| 1,1-Dichloropropene | 240 | 24 | ug/kg | 241 | ND | 100 | 50-150 | NR | 25 | |
| 1,2,3-Trichlorobenzene | 226 | 24 | ug/kg | 241 | ND | 94 | 50-150 | NR | 25 | |
| 1,2,3-Trichloropropane | 234 | 24 | ug/kg | 241 | ND | 97 | 50-150 | NR | 25 | |
| 1,2,4-Trichlorobenzene | 224 | 24 | ug/kg | 241 | ND | 93 | 50-150 | 4 | 25 | |
| 1,2,4-Trimethylbenzene | 231 | 24 | ug/kg | 241 | ND | 96 | 50-150 | 2 | 25 | |
| 1,2-Dibromo-3-chloropropane | 210 | 24 | ug/kg | 241 | ND | 87 | 50-150 | NR | 25 | |
| 1,2-Dibromoethane (EDB) | 239 | 24 | ug/kg | 241 | ND | 99 | 50-150 | NR | 25 | |
| 1,2-Dichloroethane | 236 | 24 | ug/kg | 241 | ND | 98 | 50-150 | NR | 25 | |
| 1,2-Dichloropropane | 241 | 24 | ug/kg | 241 | ND | 100 | 50-150 | NR | 25 | |
| 1,3,5-Trimethylbenzene | 231 | 24 | ug/kg | 241 | ND | 96 | 50-150 | 2 | 25 | |
| 1,3-Dichloropropane | 236 | 24 | ug/kg | 241 | ND | 98 | 50-150 | 8 | 25 | |
| 2,2-Dichloropropane | 281 | 24 | ug/kg | 241 | ND | 117 | 50-150 | 21 | 25 | |
| 2-Butanone | 247 | 24 | ug/kg | 241 | ND | 103 | 50-150 | NR | 25 | |
| 2-Chloroethyl vinyl ether | 214 | 24 | ug/kg | 241 | ND | 89 | 50-150 | NR | 25 | |
| 2-Chlorotoluene | 232 | 24 | ug/kg | 241 | ND | 96 | 50-150 | 3 | 25 | |
| 2-Hexanone | 232 | 24 | ug/kg | 241 | ND | 96 | 50-150 | NR | 25 | |
| 4-Chlorotoluene | 224 | 24 | ug/kg | 241 | ND | 93 | 50-150 | 0.2 | 25 | |
| 4-Methyl-2-pentanone | 220 | 24 | ug/kg | 241 | ND | 91 | 50-150 | NR | 25 | |
| Acetone | 218 | 24 | ug/kg | 241 | ND | 91 | 50-150 | NR | 25 | |
| Acrolein | 98.7 | 24 | ug/kg | 241 | ND | 41 | 50-150 | NR | 25 | MS-05 |
| Acrylonitrile | 225 | 24 | ug/kg | 241 | ND | 93 | 50-150 | NR | 25 | |
| Benzene | 235 | 24 | ug/kg | 241 | ND | 98 | 30-134 | NR | 25 | |
| Bromobenzene | 224 | 24 | ug/kg | 241 | ND | 93 | 50-150 | 2 | 25 | |
| Bromochloromethane | 248 | 24 | ug/kg | 241 | ND | 103 | 50-150 | 5 | 25 | |
| Bromodichloromethane | 228 | 24 | ug/kg | 241 | ND | 95 | 50-150 | 15 | 25 | |
| Bromoform | 209 | 24 | ug/kg | 241 | ND | 87 | 50-150 | NR | 25 | |
| Bromomethane | 129 | 24 | ug/kg | 241 | ND | 54 | 50-150 | NR | 25 | MS-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5J1037-MSD1)** | **Source: 5I25014-01** | | | Analyzed: 10/21/15 00:42 | | | | | | |
| Carbon tetrachloride | 224 | 24 | ug/kg | 241 | ND | 93 | 50-150 | NR | 25 | |
| Chlorobenzene | 227 | 24 | ug/kg | 241 | ND | 94 | 3-135 | 5 | 25 | |
| Chloroethane | 181 | 24 | ug/kg | 241 | ND | 75 | 50-150 | NR | 25 | |
| Chloroform | 234 | 24 | ug/kg | 241 | ND | 97 | 50-150 | NR | 25 | |
| Chloromethane | 226 | 24 | ug/kg | 241 | ND | 94 | 50-150 | 9 | 25 | |
| cis-1,2-Dichloroethene | 239 | 24 | ug/kg | 241 | ND | 99 | 50-150 | NR | 25 | |
| cis-1,3-Dichloropropene | 244 | 24 | ug/kg | 241 | ND | 101 | 50-150 | 16 | 25 | |
| Dibromochloromethane | 214 | 24 | ug/kg | 241 | ND | 89 | 50-150 | NR | 25 | |
| Dibromomethane | 235 | 24 | ug/kg | 241 | ND | 98 | 50-150 | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | 241 | 24 | ug/kg | 241 | ND | 100 | 50-150 | 11 | 25 | |
| Ethylbenzene | 231 | 24 | ug/kg | 241 | ND | 96 | 50-150 | 5 | 25 | |
| Hexachlorobutadiene | 212 | 24 | ug/kg | 241 | ND | 88 | 50-150 | NR | 25 | |
| Isopropylbenzene | 236 | 24 | ug/kg | 241 | ND | 98 | 50-150 | 4 | 25 | |
| m,p-Xylene | 228 | 24 | ug/kg | 241 | ND | 95 | 50-150 | NR | 25 | |
| m-Dichlorobenzene | 217 | 24 | ug/kg | 241 | ND | 90 | 50-150 | 0.8 | 25 | |
| Methyl tert-butyl ether (MTBE) | 334 | 24 | ug/kg | 241 | ND | 139 | 50-150 | 11 | 25 | |
| Methylene chloride | 234 | 24 | ug/kg | 241 | ND | 97 | 50-150 | 5 | 25 | |
| Naphthalene | 230 | 24 | ug/kg | 241 | ND | 95 | 50-150 | NR | 25 | |
| n-Butylbenzene | 224 | 24 | ug/kg | 241 | ND | 93 | 50-150 | 0.1 | 25 | |
| n-Propylbenzene | 232 | 24 | ug/kg | 241 | ND | 97 | 50-150 | 2 | 25 | |
| o-Dichlorobenzene | 220 | 24 | ug/kg | 241 | ND | 92 | 50-150 | 1 | 25 | |
| o-Xylene | 229 | 24 | ug/kg | 241 | ND | 95 | 50-150 | 4 | 25 | |
| p-Dichlorobenzene | 215 | 24 | ug/kg | 241 | ND | 90 | 50-150 | 1 | 25 | |
| p-Isopropyltoluene | 230 | 24 | ug/kg | 241 | ND | 96 | 50-150 | 3 | 25 | |
| sec-Butylbenzene | 236 | 24 | ug/kg | 241 | ND | 98 | 50-150 | 4 | 25 | |
| Styrene | 226 | 24 | ug/kg | 241 | ND | 94 | 50-150 | 4 | 25 | |
| tert-Butylbenzene | 237 | 24 | ug/kg | 241 | ND | 98 | 50-150 | 5 | 25 | |
| Tetrachloroethene | 231 | 24 | ug/kg | 241 | ND | 96 | 50-150 | NR | 25 | |
| Toluene | 222 | 24 | ug/kg | 241 | ND | 92 | 11-140 | NR | 25 | |
| trans-1,2-Dichloroethene | 239 | 24 | ug/kg | 241 | ND | 99 | 50-150 | NR | 25 | |
| trans-1,3-Dichloropropene | 244 | 24 | ug/kg | 241 | ND | 101 | 50-150 | NR | 25 | |
| Trichloroethene | 237 | 24 | ug/kg | 241 | ND | 98 | 10-144 | NR | 25 | |
| Trichlorofluoromethane | 243 | 24 | ug/kg | 241 | ND | 101 | 50-150 | NR | 25 | |
| Vinyl chloride | 233 | 24 | ug/kg | 241 | ND | 97 | 50-150 | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *253* | | *ug/kg* | *241* | | *105* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *240* | | *ug/kg* | *241* | | *100* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *241* | | *ug/kg* | *241* | | *100* | *84-120* | | | |
| *Surr: Toluene-d8* | *239* | | *ug/kg* | *241* | | *99* | *82-120* | | | |
| **Matrix Spike Dup (W5J1037-MSD2)** | **Source: 5J02045-01** | | | Analyzed: 10/21/15 01:45 | | | | | | |



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**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5J1037-MSD2)** | **Source: 5J02045-01** | | | Analyzed: 10/21/15 01:45 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 233 | 24 | ug/kg | 237 | ND | 98 | 50-150 | 2 | 25 | |
| 1,1,1-Trichloroethane | 258 | 24 | ug/kg | 237 | ND | 109 | 50-150 | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | 214 | 24 | ug/kg | 237 | ND | 90 | 50-150 | NR | 25 | |
| 1,1,2-Trichloroethane | 223 | 24 | ug/kg | 237 | ND | 94 | 50-150 | NR | 25 | |
| 1,1-Dichloroethane | 229 | 24 | ug/kg | 237 | ND | 97 | 50-150 | 1 | 25 | |
| 1,1-Dichloroethene | 223 | 24 | ug/kg | 237 | ND | 94 | 38-139 | NR | 25 | |
| 1,1-Dichloropropene | 228 | 24 | ug/kg | 237 | ND | 96 | 50-150 | NR | 25 | |
| 1,2,3-Trichlorobenzene | 228 | 24 | ug/kg | 237 | ND | 96 | 50-150 | NR | 25 | |
| 1,2,3-Trichloropropane | 220 | 24 | ug/kg | 237 | ND | 93 | 50-150 | NR | 25 | |
| 1,2,4-Trichlorobenzene | 227 | 24 | ug/kg | 237 | ND | 96 | 50-150 | 2 | 25 | |
| 1,2,4-Trimethylbenzene | 224 | 24 | ug/kg | 237 | ND | 94 | 50-150 | 1 | 25 | |
| 1,2-Dibromo-3-chloropropane | 222 | 24 | ug/kg | 237 | ND | 94 | 50-150 | NR | 25 | |
| 1,2-Dibromoethane (EDB) | 248 | 24 | ug/kg | 237 | ND | 105 | 50-150 | NR | 25 | |
| 1,2-Dichloroethane | 224 | 24 | ug/kg | 237 | ND | 94 | 50-150 | NR | 25 | |
| 1,2-Dichloropropane | 234 | 24 | ug/kg | 237 | ND | 99 | 50-150 | 1 | 25 | |
| 1,3,5-Trimethylbenzene | 224 | 24 | ug/kg | 237 | ND | 95 | 50-150 | 0.3 | 25 | |
| 1,3-Dichloropropane | 225 | 24 | ug/kg | 237 | ND | 95 | 50-150 | 3 | 25 | |
| 2,2-Dichloropropane | 309 | 24 | ug/kg | 237 | ND | 130 | 50-150 | 7 | 25 | |
| 2-Butanone | 298 | 24 | ug/kg | 237 | ND | 126 | 50-150 | NR | 25 | |
| 2-Chloroethyl vinyl ether | 201 | 24 | ug/kg | 237 | ND | 85 | 50-150 | NR | 25 | |
| 2-Chlorotoluene | 222 | 24 | ug/kg | 237 | ND | 94 | 50-150 | 0.8 | 25 | |
| 2-Hexanone | 218 | 24 | ug/kg | 237 | ND | 92 | 50-150 | NR | 25 | |
| 4-Chlorotoluene | 218 | 24 | ug/kg | 237 | ND | 92 | 50-150 | 2 | 25 | |
| 4-Methyl-2-pentanone | 205 | 24 | ug/kg | 237 | ND | 87 | 50-150 | NR | 25 | |
| Acetone | 208 | 24 | ug/kg | 237 | ND | 88 | 50-150 | NR | 25 | |
| Acrolein | 138 | 24 | ug/kg | 237 | ND | 58 | 50-150 | NR | 25 | |
| Acrylonitrile | 202 | 24 | ug/kg | 237 | ND | 85 | 50-150 | NR | 25 | |
| Benzene | 223 | 24 | ug/kg | 237 | ND | 94 | 30-134 | NR | 25 | |
| Bromobenzene | 219 | 24 | ug/kg | 237 | ND | 93 | 50-150 | 0.9 | 25 | |
| Bromochloromethane | 236 | 24 | ug/kg | 237 | ND | 100 | 50-150 | 0.5 | 25 | |
| Bromodichloromethane | 234 | 24 | ug/kg | 237 | ND | 99 | 50-150 | 3 | 25 | |
| Bromoform | 216 | 24 | ug/kg | 237 | ND | 91 | 50-150 | 1 | 25 | |
| Bromomethane | 63.4 | 24 | ug/kg | 237 | ND | 27 | 50-150 | NR | 25 | MS-05 |
| Carbon tetrachloride | 238 | 24 | ug/kg | 237 | ND | 100 | 50-150 | NR | 25 | |
| Chlorobenzene | 218 | 24 | ug/kg | 237 | ND | 92 | 3-135 | 1 | 25 | |
| Chloroethane | 220 | 24 | ug/kg | 237 | ND | 93 | 50-150 | NR | 25 | |
| Chloroform | 227 | 24 | ug/kg | 237 | ND | 96 | 50-150 | 1 | 25 | |
| Chloromethane | 212 | 24 | ug/kg | 237 | ND | 90 | 50-150 | 0.8 | 25 | |
| cis-1,2-Dichloroethene | 230 | 24 | ug/kg | 237 | ND | 97 | 50-150 | NR | 25 | |

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**Date Received:** 10/02/15 15:50
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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5J1037 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5J1037-MSD2)** | **Source: 5J02045-01** | | | Analyzed: 10/21/15 01:45 | | | | | | |
| cis-1,3-Dichloropropene | 260 | 24 | ug/kg | 237 | ND | 110 | 50-150 | 4 | 25 | |
| Dibromochloromethane | 227 | 24 | ug/kg | 237 | ND | 96 | 50-150 | NR | 25 | |
| Dibromomethane | 221 | 24 | ug/kg | 237 | ND | 93 | 50-150 | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | 225 | 24 | ug/kg | 237 | ND | 95 | 50-150 | 3 | 25 | |
| Ethylbenzene | 221 | 24 | ug/kg | 237 | ND | 93 | 50-150 | 1 | 25 | |
| Hexachlorobutadiene | 217 | 24 | ug/kg | 237 | ND | 91 | 50-150 | NR | 25 | |
| Isopropylbenzene | 224 | 24 | ug/kg | 237 | ND | 95 | 50-150 | 2 | 25 | |
| m,p-Xylene | 217 | 24 | ug/kg | 237 | ND | 92 | 50-150 | NR | 25 | |
| m-Dichlorobenzene | 214 | 24 | ug/kg | 237 | ND | 91 | 50-150 | 2 | 25 | |
| Methyl tert-butyl ether (MTBE) | 336 | 24 | ug/kg | 237 | ND | 142 | 50-150 | 3 | 25 | |
| Methylene chloride | 226 | 24 | ug/kg | 237 | ND | 95 | 50-150 | 1 | 25 | |
| Naphthalene | 223 | 24 | ug/kg | 237 | ND | 94 | 50-150 | NR | 25 | |
| n-Butylbenzene | 219 | 24 | ug/kg | 237 | ND | 92 | 50-150 | 2 | 25 | |
| n-Propylbenzene | 225 | 24 | ug/kg | 237 | ND | 95 | 50-150 | 0.5 | 25 | |
| o-Dichlorobenzene | 215 | 24 | ug/kg | 237 | ND | 91 | 50-150 | 1 | 25 | |
| o-Xylene | 220 | 24 | ug/kg | 237 | ND | 93 | 50-150 | 2 | 25 | |
| p-Dichlorobenzene | 210 | 24 | ug/kg | 237 | ND | 89 | 50-150 | 3 | 25 | |
| p-Isopropyltoluene | 224 | 24 | ug/kg | 237 | ND | 95 | 50-150 | 0.8 | 25 | |
| sec-Butylbenzene | 227 | 24 | ug/kg | 237 | ND | 96 | 50-150 | 0.09 | 25 | |
| Styrene | 219 | 24 | ug/kg | 237 | ND | 92 | 50-150 | 2 | 25 | |
| tert-Butylbenzene | 229 | 24 | ug/kg | 237 | ND | 97 | 50-150 | 0.6 | 25 | |
| Tetrachloroethene | 220 | 24 | ug/kg | 237 | ND | 93 | 50-150 | NR | 25 | |
| Toluene | 215 | 24 | ug/kg | 237 | ND | 91 | 11-140 | NR | 25 | |
| trans-1,2-Dichloroethene | 225 | 24 | ug/kg | 237 | ND | 95 | 50-150 | NR | 25 | |
| trans-1,3-Dichloropropene | 264 | 24 | ug/kg | 237 | ND | 112 | 50-150 | NR | 25 | |
| Trichloroethene | 224 | 24 | ug/kg | 237 | ND | 95 | 10-144 | NR | 25 | |
| Trichlorofluoromethane | 224 | 24 | ug/kg | 237 | ND | 95 | 50-150 | NR | 25 | |
| Vinyl chloride | 219 | 24 | ug/kg | 237 | ND | 93 | 50-150 | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *236* | | *ug/kg* | *237* | | *100* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *232* | | *ug/kg* | *237* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *236* | | *ug/kg* | *237* | | *100* | *84-120* | | | |
| *Surr: Toluene-d8* | *237* | | *ug/kg* | *237* | | *100* | *82-120* | | | |

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5K0373-BLK1)** | | | | Analyzed: 11/06/15 01:09 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | | | | | | | |

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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5K0373-BLK1)** | | | | Analyzed: 11/06/15 01:09 | | | | | | |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 2-Butanone | ND | 5.0 | ug/kg | | | | | | | |
| 2-Chloroethyl vinyl ether | ND | 5.0 | ug/kg | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/kg | | | | | | | |
| 2-Hexanone | ND | 5.0 | ug/kg | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/kg | | | | | | | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/kg | | | | | | | |
| Acetone | ND | 5.0 | ug/kg | | | | | | | |
| Acrolein | ND | 5.0 | ug/kg | | | | | | | |
| Acrylonitrile | ND | 5.0 | ug/kg | | | | | | | |
| Benzene | ND | 5.0 | ug/kg | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Bromodichloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Bromoform | ND | 5.0 | ug/kg | | | | | | | |
| Bromomethane | ND | 5.0 | ug/kg | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/kg | | | | | | | |
| Chlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Chloroethane | ND | 5.0 | ug/kg | | | | | | | |
| Chloroform | ND | 5.0 | ug/kg | | | | | | | |
| Chloromethane | ND | 5.0 | ug/kg | | | | | | | |
| cis-1,2-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| Dibromochloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Dibromomethane | ND | 5.0 | ug/kg | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 5.0 | ug/kg | | | | | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5K0373-BLK1)** | | | | Analyzed: 11/06/15 01:09 | | | | | | |
| Ethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/kg | | | | | | | |
| Isopropylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| m,p-Xylene | ND | 5.0 | ug/kg | | | | | | | |
| m-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 5.0 | ug/kg | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/kg | | | | | | | |
| Naphthalene | ND | 5.0 | ug/kg | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| n-Propylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| o-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| o-Xylene | ND | 5.0 | ug/kg | | | | | | | |
| p-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| p-Isopropyltoluene | ND | 5.0 | ug/kg | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Styrene | ND | 5.0 | ug/kg | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Tetrachloroethene | ND | 5.0 | ug/kg | | | | | | | |
| Toluene | ND | 5.0 | ug/kg | | | | | | | |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| Trichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/kg | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/kg | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *52.3* | | *ug/kg* | *50.0* | | *105* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *49.4* | | *ug/kg* | *50.0* | | *99* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *51.5* | | *ug/kg* | *50.0* | | *103* | *84-120* | | | |
| *Surr: Toluene-d8* | *50.4* | | *ug/kg* | *50.0* | | *101* | *82-120* | | | |
| **LCS (W5K0373-BS1)** | | | | Analyzed: 11/05/15 21:58 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 50.3 | 5.0 | ug/kg | 50.0 | | 101 | 81-120 | | | |
| 1,1,1-Trichloroethane | 52.9 | 5.0 | ug/kg | 50.0 | | 106 | 78-125 | | | |
| 1,1,2,2-Tetrachloroethane | 49.4 | 5.0 | ug/kg | 50.0 | | 99 | 67-115 | | | |
| 1,1,2-Trichloroethane | 48.0 | 5.0 | ug/kg | 50.0 | | 96 | 85-121 | | | |
| 1,1-Dichloroethane | 48.7 | 5.0 | ug/kg | 50.0 | | 97 | 84-118 | | | |
| 1,1-Dichloroethene | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 80-123 | | | |
| 1,1-Dichloropropene | 50.9 | 5.0 | ug/kg | 50.0 | | 102 | 79-128 | | | |
| 1,2,3-Trichlorobenzene | 46.2 | 5.0 | ug/kg | 50.0 | | 92 | 36-201 | | | |
| 1,2,3-Trichloropropane | 48.0 | 5.0 | ug/kg | 50.0 | | 96 | 65-115 | | | |
| 1,2,4-Trichlorobenzene | 44.8 | 5.0 | ug/kg | 50.0 | | 90 | 69-143 | | | |

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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS (W5K0373-BS1)** | | | | Analyzed: 11/05/15 21:58 | | | | | | |
| 1,2,4-Trimethylbenzene | 48.2 | 5.0 | ug/kg | 50.0 | | 96 | 70-119 | | | |
| 1,2-Dibromo-3-chloropropane | 50.7 | 5.0 | ug/kg | 50.0 | | 101 | 62-140 | | | |
| 1,2-Dibromoethane (EDB) | 51.8 | 5.0 | ug/kg | 50.0 | | 104 | 86-125 | | | |
| 1,2-Dichloroethane | 47.9 | 5.0 | ug/kg | 50.0 | | 96 | 74-123 | | | |
| 1,2-Dichloropropane | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 83-122 | | | |
| 1,3,5-Trimethylbenzene | 48.0 | 5.0 | ug/kg | 50.0 | | 96 | 66-122 | | | |
| 1,3-Dichloropropane | 49.6 | 5.0 | ug/kg | 50.0 | | 99 | 85-122 | | | |
| 2,2-Dichloropropane | 51.1 | 5.0 | ug/kg | 50.0 | | 102 | 78-124 | | | |
| 2-Butanone | 50.9 | 5.0 | ug/kg | 50.0 | | 102 | 65-139 | | | |
| 2-Chloroethyl vinyl ether | 22.4 | 5.0 | ug/kg | 50.0 | | 45 | 62-134 | | | Q-ME |
| 2-Chlorotoluene | 49.8 | 5.0 | ug/kg | 50.0 | | 100 | 65-118 | | | |
| 2-Hexanone | 49.9 | 5.0 | ug/kg | 50.0 | | 100 | 72-138 | | | |
| 4-Chlorotoluene | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 71-116 | | | |
| 4-Methyl-2-pentanone | 48.7 | 5.0 | ug/kg | 50.0 | | 97 | 70-133 | | | |
| Acetone | 51.3 | 5.0 | ug/kg | 50.0 | | 103 | 57-138 | | | |
| Acrolein | 34.7 | 5.0 | ug/kg | 50.0 | | 69 | 57-139 | | | |
| Acrylonitrile | 51.2 | 5.0 | ug/kg | 50.0 | | 102 | 78-124 | | | |
| Benzene | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 83-121 | | | |
| Bromobenzene | 46.4 | 5.0 | ug/kg | 50.0 | | 93 | 67-115 | | | |
| Bromochloromethane | 50.1 | 5.0 | ug/kg | 50.0 | | 100 | 82-117 | | | |
| Bromodichloromethane | 52.3 | 5.0 | ug/kg | 50.0 | | 105 | 78-122 | | | |
| Bromoform | 49.6 | 5.0 | ug/kg | 50.0 | | 99 | 83-125 | | | |
| Bromomethane | 47.9 | 5.0 | ug/kg | 50.0 | | 96 | 58-133 | | | |
| Carbon tetrachloride | 55.0 | 5.0 | ug/kg | 50.0 | | 110 | 79-126 | | | |
| Chlorobenzene | 49.1 | 5.0 | ug/kg | 50.0 | | 98 | 84-118 | | | |
| Chloroethane | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 58-135 | | | |
| Chloroform | 48.5 | 5.0 | ug/kg | 50.0 | | 97 | 80-123 | | | |
| Chloromethane | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 58-128 | | | |
| cis-1,2-Dichloroethene | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 83-120 | | | |
| cis-1,3-Dichloropropene | 52.2 | 5.0 | ug/kg | 50.0 | | 104 | 88-123 | | | |
| Dibromochloromethane | 54.7 | 5.0 | ug/kg | 50.0 | | 109 | 83-124 | | | |
| Dibromomethane | 48.2 | 5.0 | ug/kg | 50.0 | | 96 | 84-123 | | | |
| Dichlorodifluoromethane (Freon 12) | 51.3 | 5.0 | ug/kg | 50.0 | | 103 | 67-126 | | | |
| Ethylbenzene | 49.1 | 5.0 | ug/kg | 50.0 | | 98 | 80-120 | | | |
| Hexachlorobutadiene | 47.7 | 5.0 | ug/kg | 50.0 | | 95 | 70-130 | | | |
| Isopropylbenzene | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 66-122 | | | |
| m,p-Xylene | 51.6 | 5.0 | ug/kg | 50.0 | | 103 | 78-120 | | | |
| m-Dichlorobenzene | 48.1 | 5.0 | ug/kg | 50.0 | | 96 | 75-119 | | | |
| Methyl tert-butyl ether (MTBE) | 48.5 | 5.0 | ug/kg | 50.0 | | 97 | 83-122 | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS (W5K0373-BS1)** | | | | Analyzed: 11/05/15 21:58 | | | | | | |
| Methylene chloride | 53.2 | 5.0 | ug/kg | 50.0 | | 106 | 76-118 | | | |
| Naphthalene | 46.3 | 5.0 | ug/kg | 50.0 | | 93 | 42-190 | | | |
| n-Butylbenzene | 48.6 | 5.0 | ug/kg | 50.0 | | 97 | 68-119 | | | |
| n-Propylbenzene | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 64-120 | | | |
| o-Dichlorobenzene | 48.5 | 5.0 | ug/kg | 50.0 | | 97 | 77-117 | | | |
| o-Xylene | 48.3 | 5.0 | ug/kg | 50.0 | | 97 | 77-126 | | | |
| p-Dichlorobenzene | 46.3 | 5.0 | ug/kg | 50.0 | | 93 | 76-119 | | | |
| p-Isopropyltoluene | 48.1 | 5.0 | ug/kg | 50.0 | | 96 | 70-123 | | | |
| sec-Butylbenzene | 50.9 | 5.0 | ug/kg | 50.0 | | 102 | 67-120 | | | |
| Styrene | 49.9 | 5.0 | ug/kg | 50.0 | | 100 | 84-125 | | | |
| tert-Butylbenzene | 49.6 | 5.0 | ug/kg | 50.0 | | 99 | 70-119 | | | |
| Tetrachloroethene | 47.9 | 5.0 | ug/kg | 50.0 | | 96 | 80-129 | | | |
| Toluene | 47.8 | 5.0 | ug/kg | 50.0 | | 96 | 81-126 | | | |
| trans-1,2-Dichloroethene | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 82-123 | | | |
| trans-1,3-Dichloropropene | 52.7 | 5.0 | ug/kg | 50.0 | | 105 | 81-131 | | | |
| Trichloroethene | 48.6 | 5.0 | ug/kg | 50.0 | | 97 | 82-118 | | | |
| Trichlorofluoromethane | 50.3 | 5.0 | ug/kg | 50.0 | | 101 | 72-129 | | | |
| Vinyl chloride | 49.0 | 5.0 | ug/kg | 50.0 | | 98 | 63-130 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *51.0* | | *ug/kg* | *50.0* | | *102* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *51.2* | | *ug/kg* | *50.0* | | *102* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *51.8* | | *ug/kg* | *50.0* | | *104* | *84-120* | | | |
| *Surr: Toluene-d8* | *51.4* | | *ug/kg* | *50.0* | | *103* | *82-120* | | | |
| **LCS Dup (W5K0373-BSD1)** | | | | Analyzed: 11/05/15 22:30 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 47.4 | 5.0 | ug/kg | 50.0 | | 95 | 81-120 | 6 | 25 | |
| 1,1,1-Trichloroethane | 49.6 | 5.0 | ug/kg | 50.0 | | 99 | 78-125 | 6 | 25 | |
| 1,1,2,2-Tetrachloroethane | 46.8 | 5.0 | ug/kg | 50.0 | | 94 | 67-115 | 5 | 25 | |
| 1,1,2-Trichloroethane | 45.2 | 5.0 | ug/kg | 50.0 | | 90 | 85-121 | 6 | 25 | |
| 1,1-Dichloroethane | 45.2 | 5.0 | ug/kg | 50.0 | | 90 | 84-118 | 8 | 25 | |
| 1,1-Dichloroethene | 43.0 | 5.0 | ug/kg | 50.0 | | 86 | 80-123 | 8 | 25 | |
| 1,1-Dichloropropene | 47.3 | 5.0 | ug/kg | 50.0 | | 95 | 79-128 | 7 | 25 | |
| 1,2,3-Trichlorobenzene | 43.0 | 5.0 | ug/kg | 50.0 | | 86 | 36-201 | 7 | 25 | |
| 1,2,3-Trichloropropane | 44.5 | 5.0 | ug/kg | 50.0 | | 89 | 65-115 | 8 | 25 | |
| 1,2,4-Trichlorobenzene | 41.0 | 5.0 | ug/kg | 50.0 | | 82 | 69-143 | 9 | 25 | |
| 1,2,4-Trimethylbenzene | 45.0 | 5.0 | ug/kg | 50.0 | | 90 | 70-119 | 7 | 25 | |
| 1,2-Dibromo-3-chloropropane | 50.1 | 5.0 | ug/kg | 50.0 | | 100 | 62-140 | 1 | 25 | |
| 1,2-Dibromoethane (EDB) | 49.4 | 5.0 | ug/kg | 50.0 | | 99 | 86-125 | 5 | 25 | |
| 1,2-Dichloroethane | 44.8 | 5.0 | ug/kg | 50.0 | | 90 | 74-123 | 7 | 25 | |
| 1,2-Dichloropropane | 45.6 | 5.0 | ug/kg | 50.0 | | 91 | 83-122 | 7 | 25 | |
| 1,3,5-Trimethylbenzene | 45.3 | 5.0 | ug/kg | 50.0 | | 91 | 66-122 | 6 | 25 | |

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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS Dup (W5K0373-BSD1)** | | | | Analyzed: 11/05/15 22:30 | | | | | | |
| 1,3-Dichloropropane | 46.8 | 5.0 | ug/kg | 50.0 | | 94 | 85-122 | 6 | 25 | |
| 2,2-Dichloropropane | 48.9 | 5.0 | ug/kg | 50.0 | | 98 | 78-124 | 4 | 25 | |
| 2-Butanone | 47.7 | 5.0 | ug/kg | 50.0 | | 95 | 65-139 | 7 | 25 | |
| 2-Chloroethyl vinyl ether | 22.6 | 5.0 | ug/kg | 50.0 | | 45 | 62-134 | 0.5 | 25 | Q-ME |
| 2-Chlorotoluene | 46.8 | 5.0 | ug/kg | 50.0 | | 94 | 65-118 | 6 | 25 | |
| 2-Hexanone | 48.4 | 5.0 | ug/kg | 50.0 | | 97 | 72-138 | 3 | 25 | |
| 4-Chlorotoluene | 45.7 | 5.0 | ug/kg | 50.0 | | 91 | 71-116 | 7 | 25 | |
| 4-Methyl-2-pentanone | 46.9 | 5.0 | ug/kg | 50.0 | | 94 | 70-133 | 4 | 25 | |
| Acetone | 47.4 | 5.0 | ug/kg | 50.0 | | 95 | 57-138 | 8 | 25 | |
| Acrolein | 41.7 | 5.0 | ug/kg | 50.0 | | 83 | 57-139 | 18 | 25 | |
| Acrylonitrile | 50.8 | 5.0 | ug/kg | 50.0 | | 102 | 78-124 | 0.9 | 25 | |
| Benzene | 45.5 | 5.0 | ug/kg | 50.0 | | 91 | 83-121 | 7 | 25 | |
| Bromobenzene | 43.8 | 5.0 | ug/kg | 50.0 | | 88 | 67-115 | 6 | 25 | |
| Bromochloromethane | 47.6 | 5.0 | ug/kg | 50.0 | | 95 | 82-117 | 5 | 25 | |
| Bromodichloromethane | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 78-122 | 7 | 25 | |
| Bromoform | 47.4 | 5.0 | ug/kg | 50.0 | | 95 | 83-125 | 5 | 25 | |
| Bromomethane | 45.1 | 5.0 | ug/kg | 50.0 | | 90 | 58-133 | 6 | 25 | |
| Carbon tetrachloride | 51.4 | 5.0 | ug/kg | 50.0 | | 103 | 79-126 | 7 | 25 | |
| Chlorobenzene | 45.9 | 5.0 | ug/kg | 50.0 | | 92 | 84-118 | 7 | 25 | |
| Chloroethane | 43.3 | 5.0 | ug/kg | 50.0 | | 87 | 58-135 | 9 | 25 | |
| Chloroform | 45.0 | 5.0 | ug/kg | 50.0 | | 90 | 80-123 | 7 | 25 | |
| Chloromethane | 43.6 | 5.0 | ug/kg | 50.0 | | 87 | 58-128 | 7 | 25 | |
| cis-1,2-Dichloroethene | 43.9 | 5.0 | ug/kg | 50.0 | | 88 | 83-120 | 7 | 25 | |
| cis-1,3-Dichloropropene | 49.1 | 5.0 | ug/kg | 50.0 | | 98 | 88-123 | 6 | 25 | |
| Dibromochloromethane | 51.2 | 5.0 | ug/kg | 50.0 | | 102 | 83-124 | 7 | 25 | |
| Dibromomethane | 45.7 | 5.0 | ug/kg | 50.0 | | 91 | 84-123 | 5 | 25 | |
| Dichlorodifluoromethane (Freon 12) | 47.7 | 5.0 | ug/kg | 50.0 | | 95 | 67-126 | 7 | 25 | |
| Ethylbenzene | 45.4 | 5.0 | ug/kg | 50.0 | | 91 | 80-120 | 8 | 25 | |
| Hexachlorobutadiene | 44.5 | 5.0 | ug/kg | 50.0 | | 89 | 70-130 | 7 | 25 | |
| Isopropylbenzene | 44.8 | 5.0 | ug/kg | 50.0 | | 90 | 66-122 | 6 | 25 | |
| m,p-Xylene | 47.9 | 5.0 | ug/kg | 50.0 | | 96 | 78-120 | 7 | 25 | |
| m-Dichlorobenzene | 45.2 | 5.0 | ug/kg | 50.0 | | 90 | 75-119 | 6 | 25 | |
| Methyl tert-butyl ether (MTBE) | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 83-122 | 4 | 25 | |
| Methylene chloride | 49.3 | 5.0 | ug/kg | 50.0 | | 99 | 76-118 | 8 | 25 | |
| Naphthalene | 45.0 | 5.0 | ug/kg | 50.0 | | 90 | 42-190 | 3 | 25 | |
| n-Butylbenzene | 44.9 | 5.0 | ug/kg | 50.0 | | 90 | 68-119 | 8 | 25 | |
| n-Propylbenzene | 43.7 | 5.0 | ug/kg | 50.0 | | 87 | 64-120 | 7 | 25 | |
| o-Dichlorobenzene | 45.6 | 5.0 | ug/kg | 50.0 | | 91 | 77-117 | 6 | 25 | |
| o-Xylene | 45.1 | 5.0 | ug/kg | 50.0 | | 90 | 77-126 | 7 | 25 | |



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Bakersfield, CA 93301 CA, 93301

**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS Dup (W5K0373-BSD1)** | | | | Analyzed: 11/05/15 22:30 | | | | | | |
| p-Dichlorobenzene | 43.5 | 5.0 | ug/kg | 50.0 | | 87 | 76-119 | 6 | 25 | |
| p-Isopropyltoluene | 44.7 | 5.0 | ug/kg | 50.0 | | 89 | 70-123 | 7 | 25 | |
| sec-Butylbenzene | 48.2 | 5.0 | ug/kg | 50.0 | | 96 | 67-120 | 5 | 25 | |
| Styrene | 46.8 | 5.0 | ug/kg | 50.0 | | 94 | 84-125 | 6 | 25 | |
| tert-Butylbenzene | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 70-119 | 5 | 25 | |
| Tetrachloroethene | 43.9 | 5.0 | ug/kg | 50.0 | | 88 | 80-129 | 9 | 25 | |
| Toluene | 44.1 | 5.0 | ug/kg | 50.0 | | 88 | 81-126 | 8 | 25 | |
| trans-1,2-Dichloroethene | 43.5 | 5.0 | ug/kg | 50.0 | | 87 | 82-123 | 7 | 25 | |
| trans-1,3-Dichloropropene | 49.6 | 5.0 | ug/kg | 50.0 | | 99 | 81-131 | 6 | 25 | |
| Trichloroethene | 45.2 | 5.0 | ug/kg | 50.0 | | 90 | 82-118 | 7 | 25 | |
| Trichlorofluoromethane | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 72-129 | 7 | 25 | |
| Vinyl chloride | 45.3 | 5.0 | ug/kg | 50.0 | | 91 | 63-130 | 8 | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *50.8* | | *ug/kg* | *50.0* | | *102* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *50.6* | | *ug/kg* | *50.0* | | *101* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *50.4* | | *ug/kg* | *50.0* | | *101* | *84-120* | | | |
| *Surr: Toluene-d8* | *50.5* | | *ug/kg* | *50.0* | | *101* | *82-120* | | | |
| **Duplicate (W5K0373-DUP1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 15:48 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 15:48 | | | | | | |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 194 | 24 | ug/kg | | 103 | | | 61 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 69.1 | 24 | ug/kg | | 38.3 | | | 57 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 15:48 | | | | | | |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *354* | | *ug/kg* | *238* | | *149* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *151* | | *ug/kg* | *238* | | *64* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *292* | | *ug/kg* | *238* | | *123* | *84-120* | | | |
| *Surr: Toluene-d8* | *189* | | *ug/kg* | *238* | | *79* | *82-120* | | | |
| **Duplicate (W5K0373-DUP2)** | | **Source: 5I25014-02RE1** | | Analyzed: 11/06/15 16:20 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 167 | 24 | ug/kg | | 124 | | | 30 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP2)** | | **Source: 5I25014-02RE1** | | Analyzed: 11/06/15 16:20 | | | | | | |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 17.0 | 24 | ug/kg | | 16.4 | | | 3 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP2)** | | **Source: 5I25014-02RE1** | | Analyzed: 11/06/15 16:20 | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *436* | | *ug/kg* | *238* | | *183* | *78-140* | | | *S-04* |
| *Surr: 4-Bromofluorobenzene* | *143* | | *ug/kg* | *238* | | *60* | *85-116* | | | *S-04* |
| *Surr: Dibromofluoromethane* | *329* | | *ug/kg* | *238* | | *138* | *84-120* | | | *S-04* |
| *Surr: Toluene-d8* | *166* | | *ug/kg* | *238* | | *70* | *82-120* | | | *S-04* |
| **Duplicate (W5K0373-DUP3)** | | **Source: 5I25014-03RE1** | | Analyzed: 11/06/15 16:52 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 217 | 25 | ug/kg | | 98.7 | | | 75 | 25 | M-05 |
| Acrolein | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |

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**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP3)** | | **Source: 5I25014-03RE1** | | Analyzed: 11/06/15 16:52 | | | | | | |
| Chlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 11.6 | 25 | ug/kg | | 11.2 | | | 3 | 25 | M-05 |
| Naphthalene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *456* | | *ug/kg* | *246* | | *186* | *78-140* | | | *S-04* |
| *Surr: 4-Bromofluorobenzene* | *144* | | *ug/kg* | *246* | | *59* | *85-116* | | | *S-04* |
| *Surr: Dibromofluoromethane* | *344* | | *ug/kg* | *246* | | *140* | *84-120* | | | *S-04* |
| *Surr: Toluene-d8* | *164* | | *ug/kg* | *246* | | *67* | *82-120* | | | *S-04* |
| **Duplicate (W5K0373-DUP4)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 08:37 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP4)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 08:37 | | | | | | |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 217 | 24 | ug/kg | | 186 | | | 16 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP4)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 08:37 | | | | | | |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 5.67 | 24 | ug/kg | | 6.15 | | | 8 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *260* | | *ug/kg* | *242* | | *107* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *245* | | *ug/kg* | *242* | | *101* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *243* | | *ug/kg* | *242* | | *100* | *84-120* | | | |
| *Surr: Toluene-d8* | *254* | | *ug/kg* | *242* | | *105* | *82-120* | | | |
| **Duplicate (W5K0373-DUP5)** | | **Source: 5J02045-02RE1** | | Analyzed: 11/06/15 09:46 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP5)** | | **Source: 5J02045-02RE1** | | Analyzed: 11/06/15 09:46 | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 184 | 24 | ug/kg | | 211 | | | 14 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP5)** | | **Source: 5J02045-02RE1** | | Analyzed: 11/06/15 09:46 | | | | | | |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *249* | | *ug/kg* | *239* | | *104* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *239* | | *ug/kg* | *239* | | *100* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *232* | | *ug/kg* | *239* | | *97* | *84-120* | | | |
| *Surr: Toluene-d8* | *251* | | *ug/kg* | *239* | | *105* | *82-120* | | | |
| **Duplicate (W5K0373-DUP6)** | | **Source: 5J02045-03RE1** | | Analyzed: 11/06/15 10:54 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP6)** | | **Source: 5J02045-03RE1** | | Analyzed: 11/06/15 10:54 | | | | | | |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 187 | 24 | ug/kg | | 175 | | | 6 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP6)** | | **Source: 5J02045-03RE1** | | Analyzed: 11/06/15 10:54 | | | | | | |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *259* | | *ug/kg* | *237* | | *109* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *236* | | *ug/kg* | *237* | | *100* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *245* | | *ug/kg* | *237* | | *103* | *84-120* | | | |
| *Surr: Toluene-d8* | *243* | | *ug/kg* | *237* | | *102* | *82-120* | | | |
| **Duplicate (W5K0373-DUP7)** | | **Source: 5J02045-04RE1** | | Analyzed: 11/06/15 12:02 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP7)** | | **Source: 5J02045-04RE1** | | Analyzed: 11/06/15 12:02 | | | | | | |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 251 | 24 | ug/kg | | 259 | | | 3 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 6.00 | 24 | ug/kg | | 8.75 | | | 37 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 10/02/15 15:50
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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP7)** | | **Source: 5J02045-04RE1** | | Analyzed: 11/06/15 12:02 | | | | | | |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *251* | | *ug/kg* | *238* | | *105* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *237* | | *ug/kg* | *238* | | *100* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *233* | | *ug/kg* | *238* | | *98* | *84-120* | | | |
| *Surr: Toluene-d8* | *252* | | *ug/kg* | *238* | | *106* | *82-120* | | | |
| **Duplicate (W5K0373-DUP8)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/07/15 00:15 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 581 | 24 | ug/kg | | 947 | | | 48 | 25 | M-05 |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP8)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/07/15 00:15 | | | | | | |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 11.0 | 24 | ug/kg | | 16.7 | | | 41 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | 6.20 | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP8)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/07/15 00:15 | | | | | | |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *286* | | *ug/kg* | *244* | | *117* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *239* | | *ug/kg* | *244* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *261* | | *ug/kg* | *244* | | *107* | *84-120* | | | |
| *Surr: Toluene-d8* | *250* | | *ug/kg* | *244* | | *103* | *82-120* | | | |
| **Duplicate (W5K0373-DUP9)** | | **Source: 5J02046-02RE1** | | Analyzed: 11/07/15 00:47 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 1070 | 24 | ug/kg | | 869 | | | 21 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP9)** | | **Source: 5J02046-02RE1** | | Analyzed: 11/07/15 00:47 | | | | | | |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 24.5 | 24 | ug/kg | | 18.3 | | | 29 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | 134 | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *287* | | *ug/kg* | *240* | | *119* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *227* | | *ug/kg* | *240* | | *95* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *264* | | *ug/kg* | *240* | | *110* | *84-120* | | | |



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**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP9)** | | **Source: 5J02046-02RE1** | | Analyzed: 11/07/15 00:47 | | | | | | |
| *Surr: Toluene-d8* | *249* | | *ug/kg* | *240* | | *104* | *82-120* | | | |
| **Duplicate (W5K0373-DUPA)** | | **Source: 5J02046-03RE1** | | Analyzed: 11/07/15 01:19 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 1510 | 24 | ug/kg | | 1100 | | | 31 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUPA)** | | **Source: 5J02046-03RE1** | | Analyzed: 11/07/15 01:19 | | | | | | |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 53.6 | 24 | ug/kg | | 51.8 | | | 3 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *285* | | *ug/kg* | *239* | | *120* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *221* | | *ug/kg* | *239* | | *93* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *262* | | *ug/kg* | *239* | | *110* | *84-120* | | | |
| *Surr: Toluene-d8* | *236* | | *ug/kg* | *239* | | *99* | *82-120* | | | |
| **Matrix Spike (W5K0373-MS1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 21:05 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 28.6 | 5.0 | ug/kg | 50.0 | ND | 57 | 50-150 | | | |
| 1,1,1-Trichloroethane | 36.9 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| 1,1,2,2-Tetrachloroethane | 64.0 | 5.0 | ug/kg | 50.0 | ND | 128 | 50-150 | | | |
| 1,1,2-Trichloroethane | 29.2 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | | | |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS1)** | **Source: 5I25014-01RE1** | | | Analyzed: 11/06/15 21:05 | | | | | | |
| 1,1-Dichloroethane | 40.6 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | | | |
| 1,1-Dichloroethene | 38.9 | 5.0 | ug/kg | 50.0 | ND | 78 | 38-139 | | | |
| 1,1-Dichloropropene | 33.8 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | | | |
| 1,2,3-Trichlorobenzene | 14.8 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | | | MS-05 |
| 1,2,3-Trichloropropane | 70.7 | 5.0 | ug/kg | 50.0 | ND | 141 | 50-150 | | | |
| 1,2,4-Trichlorobenzene | 12.4 | 5.0 | ug/kg | 50.0 | ND | 25 | 50-150 | | | MS-05 |
| 1,2,4-Trimethylbenzene | 30.4 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | | | |
| 1,2-Dibromo-3-chloropropane | 50.3 | 5.0 | ug/kg | 50.0 | ND | 101 | 50-150 | | | |
| 1,2-Dibromoethane (EDB) | 30.5 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | | | |
| 1,2-Dichloroethane | 40.3 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | | | |
| 1,2-Dichloropropane | 33.0 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| 1,3,5-Trimethylbenzene | 32.2 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | | | |
| 1,3-Dichloropropane | 31.1 | 5.0 | ug/kg | 50.0 | ND | 62 | 50-150 | | | |
| 2,2-Dichloropropane | 41.5 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | | | |
| 2-Butanone | 70.4 | 5.0 | ug/kg | 50.0 | ND | 141 | 50-150 | | | |
| 2-Chloroethyl vinyl ether | 15.5 | 5.0 | ug/kg | 50.0 | ND | 31 | 50-150 | | | MS-05 |
| 2-Chlorotoluene | 40.3 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | | | |
| 2-Hexanone | 41.8 | 5.0 | ug/kg | 50.0 | ND | 84 | 50-150 | | | |
| 4-Chlorotoluene | 39.5 | 5.0 | ug/kg | 50.0 | ND | 79 | 50-150 | | | |
| 4-Methyl-2-pentanone | 47.5 | 5.0 | ug/kg | 50.0 | ND | 95 | 50-150 | | | |
| Acetone | 76.6 | 5.0 | ug/kg | 50.0 | 103 | NR | 50-150 | | | MS-05 |
| Acrolein | 10.6 | 5.0 | ug/kg | 50.0 | ND | 21 | 50-150 | | | MS-05 |
| Acrylonitrile | 62.4 | 5.0 | ug/kg | 50.0 | ND | 125 | 50-150 | | | |
| Benzene | 35.0 | 5.0 | ug/kg | 50.0 | ND | 70 | 30-134 | | | |
| Bromobenzene | 47.5 | 5.0 | ug/kg | 50.0 | ND | 95 | 50-150 | | | |
| Bromochloromethane | 43.4 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | | | |
| Bromodichloromethane | 31.9 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | | | |
| Bromoform | 29.3 | 5.0 | ug/kg | 50.0 | ND | 59 | 50-150 | | | |
| Bromomethane | 46.8 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | | | |
| Carbon tetrachloride | 36.2 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | | | |
| Chlorobenzene | 29.2 | 5.0 | ug/kg | 50.0 | ND | 58 | 3-135 | | | |
| Chloroethane | 43.7 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | | | |
| Chloroform | 36.5 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | | | |
| Chloromethane | 50.6 | 5.0 | ug/kg | 50.0 | ND | 101 | 50-150 | | | |
| cis-1,2-Dichloroethene | 38.2 | 5.0 | ug/kg | 50.0 | ND | 76 | 50-150 | | | |
| cis-1,3-Dichloropropene | 32.8 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| Dibromochloromethane | 26.2 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | | | |
| Dibromomethane | 37.2 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| Dichlorodifluoromethane (Freon 12) | 46.2 | 5.0 | ug/kg | 50.0 | ND | 92 | 50-150 | | | |

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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS1)** | **Source: 5I25014-01RE1** | | | Analyzed: 11/06/15 21:05 | | | | | | |
| Ethylbenzene | 26.7 | 5.0 | ug/kg | 50.0 | ND | 53 | 50-150 | | | |
| Hexachlorobutadiene | 10.1 | 5.0 | ug/kg | 50.0 | ND | 20 | 50-150 | | | MS-05 |
| Isopropylbenzene | 46.6 | 5.0 | ug/kg | 50.0 | ND | 93 | 50-150 | | | |
| m,p-Xylene | 26.1 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | | | |
| m-Dichlorobenzene | 28.4 | 5.0 | ug/kg | 50.0 | ND | 57 | 50-150 | | | |
| Methyl tert-butyl ether (MTBE) | 51.9 | 5.0 | ug/kg | 50.0 | ND | 104 | 50-150 | | | |
| Methylene chloride | 58.5 | 5.0 | ug/kg | 50.0 | 38.3 | 40 | 50-150 | | | MS-05 |
| Naphthalene | 21.8 | 5.0 | ug/kg | 50.0 | ND | 44 | 50-150 | | | MS-05 |
| n-Butylbenzene | 22.5 | 5.0 | ug/kg | 50.0 | ND | 45 | 50-150 | | | MS-05 |
| n-Propylbenzene | 39.8 | 5.0 | ug/kg | 50.0 | ND | 80 | 50-150 | | | |
| o-Dichlorobenzene | 26.3 | 5.0 | ug/kg | 50.0 | ND | 53 | 50-150 | | | |
| o-Xylene | 21.7 | 5.0 | ug/kg | 50.0 | ND | 43 | 50-150 | | | MS-05 |
| p-Dichlorobenzene | 27.1 | 5.0 | ug/kg | 50.0 | ND | 54 | 50-150 | | | |
| p-Isopropyltoluene | 26.0 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | | | |
| sec-Butylbenzene | 32.8 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| Styrene | 22.0 | 5.0 | ug/kg | 50.0 | ND | 44 | 50-150 | | | MS-05 |
| tert-Butylbenzene | 32.7 | 5.0 | ug/kg | 50.0 | ND | 65 | 50-150 | | | |
| Tetrachloroethene | 20.9 | 5.0 | ug/kg | 50.0 | ND | 42 | 50-150 | | | MS-05 |
| Toluene | 24.5 | 5.0 | ug/kg | 50.0 | ND | 49 | 11-140 | | | |
| trans-1,2-Dichloroethene | 38.0 | 5.0 | ug/kg | 50.0 | ND | 76 | 50-150 | | | |
| trans-1,3-Dichloropropene | 31.7 | 5.0 | ug/kg | 50.0 | ND | 63 | 50-150 | | | |
| Trichloroethene | 29.0 | 5.0 | ug/kg | 50.0 | ND | 58 | 10-144 | | | |
| Trichlorofluoromethane | 41.4 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | | | |
| Vinyl chloride | 45.1 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *67.0* | | *ug/kg* | *50.0* | | *134* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *34.2* | | *ug/kg* | *50.0* | | *68* | *85-116* | | | *S-04* |
| *Surr: Dibromofluoromethane* | *58.1* | | *ug/kg* | *50.0* | | *116* | *84-120* | | | |
| *Surr: Toluene-d8* | *41.3* | | *ug/kg* | *50.0* | | *83* | *82-120* | | | |
| **Matrix Spike (W5K0373-MS2)** | **Source: 5J02045-01RE1** | | | Analyzed: 11/06/15 17:24 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 33.6 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| 1,1,1-Trichloroethane | 39.7 | 5.0 | ug/kg | 50.0 | ND | 79 | 50-150 | | | |
| 1,1,2,2-Tetrachloroethane | 31.6 | 5.0 | ug/kg | 50.0 | ND | 63 | 50-150 | | | |
| 1,1,2-Trichloroethane | 34.2 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | | | |
| 1,1-Dichloroethane | 37.8 | 5.0 | ug/kg | 50.0 | ND | 76 | 50-150 | | | |
| 1,1-Dichloroethene | 36.1 | 5.0 | ug/kg | 50.0 | ND | 72 | 38-139 | | | |
| 1,1-Dichloropropene | 39.0 | 5.0 | ug/kg | 50.0 | ND | 78 | 50-150 | | | |
| 1,2,3-Trichlorobenzene | 24.4 | 5.0 | ug/kg | 50.0 | ND | 49 | 50-150 | | | MS-05 |
| 1,2,3-Trichloropropane | 32.0 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | | | |
| 1,2,4-Trichlorobenzene | 25.6 | 5.0 | ug/kg | 50.0 | ND | 51 | 50-150 | | | |

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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS2)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 17:24 | | | | | | |
| 1,2,4-Trimethylbenzene | 33.4 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| 1,2-Dibromo-3-chloropropane | 29.1 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | | | |
| 1,2-Dibromoethane (EDB) | 36.4 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | | | |
| 1,2-Dichloroethane | 36.1 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | | | |
| 1,2-Dichloropropane | 37.6 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | | | |
| 1,3,5-Trimethylbenzene | 33.4 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| 1,3-Dichloropropane | 35.6 | 5.0 | ug/kg | 50.0 | ND | 71 | 50-150 | | | |
| 2,2-Dichloropropane | 41.3 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | | | |
| 2-Butanone | ND | 5.0 | ug/kg | 50.0 | ND | NR | 50-150 | | | MS-05 |
| 2-Chloroethyl vinyl ether | 22.1 | 5.0 | ug/kg | 50.0 | ND | 44 | 50-150 | | | MS-05 |
| 2-Chlorotoluene | 35.2 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| 2-Hexanone | 33.0 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| 4-Chlorotoluene | 34.8 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| 4-Methyl-2-pentanone | 50.5 | 5.0 | ug/kg | 50.0 | ND | 101 | 50-150 | | | |
| Acetone | 37.0 | 5.0 | ug/kg | 50.0 | 186 | NR | 50-150 | | | MS-05 |
| Acrolein | 19.8 | 5.0 | ug/kg | 50.0 | ND | 40 | 50-150 | | | MS-05 |
| Acrylonitrile | 33.8 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | | | |
| Benzene | 38.2 | 5.0 | ug/kg | 50.0 | ND | 76 | 30-134 | | | |
| Bromobenzene | 31.9 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | | | |
| Bromochloromethane | 37.2 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| Bromodichloromethane | 37.4 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | | | |
| Bromoform | 31.3 | 5.0 | ug/kg | 50.0 | ND | 63 | 50-150 | | | |
| Bromomethane | 37.7 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | | | |
| Carbon tetrachloride | 40.4 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | | | |
| Chlorobenzene | 35.6 | 5.0 | ug/kg | 50.0 | ND | 71 | 3-135 | | | |
| Chloroethane | 36.0 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | | | |
| Chloroform | 36.8 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| Chloromethane | 37.4 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | | | |
| cis-1,2-Dichloroethene | 314 | 5.0 | ug/kg | 50.0 | ND | 628 | 50-150 | | | MS-05 |
| cis-1,3-Dichloropropene | 38.6 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | | | |
| Dibromochloromethane | 36.5 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | | | |
| Dibromomethane | 34.9 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| Dichlorodifluoromethane (Freon 12) | 39.9 | 5.0 | ug/kg | 50.0 | ND | 80 | 50-150 | | | |
| Ethylbenzene | 35.0 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| Hexachlorobutadiene | 27.0 | 5.0 | ug/kg | 50.0 | ND | 54 | 50-150 | | | |
| Isopropylbenzene | 33.3 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| m,p-Xylene | 36.8 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| m-Dichlorobenzene | 33.3 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| Methyl tert-butyl ether (MTBE) | 33.8 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS2)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 17:24 | | | | | | |
| Methylene chloride | 41.5 | 5.0 | ug/kg | 50.0 | 6.15 | 71 | 50-150 | | | |
| Naphthalene | 23.3 | 5.0 | ug/kg | 50.0 | ND | 47 | 50-150 | | | MS-05 |
| n-Butylbenzene | 33.0 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| n-Propylbenzene | 33.2 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| o-Dichlorobenzene | 32.4 | 5.0 | ug/kg | 50.0 | ND | 65 | 50-150 | | | |
| o-Xylene | 33.7 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| p-Dichlorobenzene | 32.0 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | | | |
| p-Isopropyltoluene | 32.6 | 5.0 | ug/kg | 50.0 | ND | 65 | 50-150 | | | |
| sec-Butylbenzene | 34.7 | 5.0 | ug/kg | 50.0 | ND | 69 | 50-150 | | | |
| Styrene | 35.1 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| tert-Butylbenzene | 33.7 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| Tetrachloroethene | 35.8 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | | | |
| Toluene | 36.6 | 5.0 | ug/kg | 50.0 | ND | 73 | 11-140 | | | |
| trans-1,2-Dichloroethene | 36.4 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | | | |
| trans-1,3-Dichloropropene | 38.3 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | | | |
| Trichloroethene | 37.1 | 5.0 | ug/kg | 50.0 | ND | 74 | 10-144 | | | |
| Trichlorofluoromethane | 38.7 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | | | |
| Vinyl chloride | 36.9 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *55.9* | | *ug/kg* | *50.0* | | *112* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *50.4* | | *ug/kg* | *50.0* | | *101* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *52.9* | | *ug/kg* | *50.0* | | *106* | *84-120* | | | |
| *Surr: Toluene-d8* | *52.1* | | *ug/kg* | *50.0* | | *104* | *82-120* | | | |
| **Matrix Spike (W5K0373-MS3)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/06/15 22:08 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 15.2 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | | | MS-05 |
| 1,1,1-Trichloroethane | 26.9 | 5.0 | ug/kg | 50.0 | ND | 54 | 50-150 | | | |
| 1,1,2,2-Tetrachloroethane | 17.8 | 5.0 | ug/kg | 50.0 | ND | 36 | 50-150 | | | MS-05 |
| 1,1,2-Trichloroethane | 17.4 | 5.0 | ug/kg | 50.0 | ND | 35 | 50-150 | | | MS-05 |
| 1,1-Dichloroethane | 29.0 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | | | |
| 1,1-Dichloroethene | 27.9 | 5.0 | ug/kg | 50.0 | ND | 56 | 38-139 | | | |
| 1,1-Dichloropropene | 24.5 | 5.0 | ug/kg | 50.0 | ND | 49 | 50-150 | | | MS-05 |
| 1,2,3-Trichlorobenzene | 7.65 | 5.0 | ug/kg | 50.0 | ND | 15 | 50-150 | | | MS-05 |
| 1,2,3-Trichloropropane | 19.5 | 5.0 | ug/kg | 50.0 | ND | 39 | 50-150 | | | MS-05 |
| 1,2,4-Trichlorobenzene | 8.69 | 5.0 | ug/kg | 50.0 | ND | 17 | 50-150 | | | MS-05 |
| 1,2,4-Trimethylbenzene | 17.4 | 5.0 | ug/kg | 50.0 | ND | 35 | 50-150 | | | MS-05 |
| 1,2-Dibromo-3-chloropropane | 16.2 | 5.0 | ug/kg | 50.0 | ND | 32 | 50-150 | | | MS-05 |
| 1,2-Dibromoethane (EDB) | 17.7 | 5.0 | ug/kg | 50.0 | ND | 35 | 50-150 | | | MS-05 |
| 1,2-Dichloroethane | 26.1 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | | | |
| 1,2-Dichloropropane | 22.1 | 5.0 | ug/kg | 50.0 | ND | 44 | 50-150 | | | MS-05 |
| 1,3,5-Trimethylbenzene | 18.8 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | | | MS-05 |

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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS3)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/06/15 22:08 | | | | | | |
| 1,3-Dichloropropane | 18.7 | 5.0 | ug/kg | 50.0 | ND | 37 | 50-150 | | | MS-05 |
| 2,2-Dichloropropane | 30.7 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | | | |
| 2-Butanone | 35.1 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| 2-Chloroethyl vinyl ether | 10.8 | 5.0 | ug/kg | 50.0 | ND | 22 | 50-150 | | | MS-05 |
| 2-Chlorotoluene | 18.2 | 5.0 | ug/kg | 50.0 | ND | 36 | 50-150 | | | MS-05 |
| 2-Hexanone | 29.4 | 5.0 | ug/kg | 50.0 | ND | 59 | 50-150 | | | |
| 4-Chlorotoluene | 17.2 | 5.0 | ug/kg | 50.0 | ND | 34 | 50-150 | | | MS-05 |
| 4-Methyl-2-pentanone | 40.6 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | | | |
| Acetone | 209 | 5.0 | ug/kg | 50.0 | 947 | NR | 50-150 | | | MS-05 |
| Acrolein | 3.42 | 5.0 | ug/kg | 50.0 | ND | 7 | 50-150 | | | MS-05 |
| Acrylonitrile | 43.2 | 5.0 | ug/kg | 50.0 | ND | 86 | 50-150 | | | |
| Benzene | 23.8 | 5.0 | ug/kg | 50.0 | ND | 48 | 30-134 | | | |
| Bromobenzene | 15.4 | 5.0 | ug/kg | 50.0 | ND | 31 | 50-150 | | | MS-05 |
| Bromochloromethane | 28.3 | 5.0 | ug/kg | 50.0 | ND | 57 | 50-150 | | | |
| Bromodichloromethane | 20.2 | 5.0 | ug/kg | 50.0 | ND | 40 | 50-150 | | | MS-05 |
| Bromoform | 13.3 | 5.0 | ug/kg | 50.0 | ND | 27 | 50-150 | | | MS-05 |
| Bromomethane | 12.1 | 5.0 | ug/kg | 50.0 | ND | 24 | 50-150 | | | MS-05 |
| Carbon tetrachloride | 27.9 | 5.0 | ug/kg | 50.0 | ND | 56 | 50-150 | | | |
| Chlorobenzene | 14.8 | 5.0 | ug/kg | 50.0 | ND | 30 | 3-135 | | | |
| Chloroethane | 34.3 | 5.0 | ug/kg | 50.0 | ND | 69 | 50-150 | | | |
| Chloroform | 24.8 | 5.0 | ug/kg | 50.0 | ND | 50 | 50-150 | | | |
| Chloromethane | 30.7 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | | | |
| cis-1,2-Dichloroethene | 29.9 | 5.0 | ug/kg | 50.0 | ND | 60 | 50-150 | | | |
| cis-1,3-Dichloropropene | 20.3 | 5.0 | ug/kg | 50.0 | ND | 41 | 50-150 | | | MS-05 |
| Dibromochloromethane | 15.9 | 5.0 | ug/kg | 50.0 | ND | 32 | 50-150 | | | MS-05 |
| Dibromomethane | 22.3 | 5.0 | ug/kg | 50.0 | ND | 45 | 50-150 | | | MS-05 |
| Dichlorodifluoromethane (Freon 12) | 34.5 | 5.0 | ug/kg | 50.0 | ND | 69 | 50-150 | | | |
| Ethylbenzene | 16.4 | 5.0 | ug/kg | 50.0 | ND | 33 | 50-150 | | | MS-05 |
| Hexachlorobutadiene | 11.3 | 5.0 | ug/kg | 50.0 | ND | 23 | 50-150 | | | MS-05 |
| Isopropylbenzene | 23.1 | 5.0 | ug/kg | 50.0 | ND | 46 | 50-150 | | | MS-05 |
| m,p-Xylene | 16.4 | 5.0 | ug/kg | 50.0 | ND | 33 | 50-150 | | | MS-05 |
| m-Dichlorobenzene | 15.1 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | | | MS-05 |
| Methyl tert-butyl ether (MTBE) | 37.6 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | | | |
| Methylene chloride | 38.4 | 5.0 | ug/kg | 50.0 | 16.7 | 44 | 50-150 | | | MS-05 |
| Naphthalene | 7.54 | 5.0 | ug/kg | 50.0 | ND | 15 | 50-150 | | | MS-05 |
| n-Butylbenzene | 18.9 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | | | MS-05 |
| n-Propylbenzene | 21.0 | 5.0 | ug/kg | 50.0 | ND | 42 | 50-150 | | | MS-05 |
| o-Dichlorobenzene | 13.8 | 5.0 | ug/kg | 50.0 | ND | 28 | 50-150 | | | MS-05 |
| o-Xylene | 13.8 | 5.0 | ug/kg | 50.0 | ND | 28 | 50-150 | | | MS-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS3)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/06/15 22:08 | | | | | | |
| p-Dichlorobenzene | 14.1 | 5.0 | ug/kg | 50.0 | ND | 28 | 50-150 | | | MS-05 |
| p-Isopropyltoluene | 20.0 | 5.0 | ug/kg | 50.0 | ND | 40 | 50-150 | | | MS-05 |
| sec-Butylbenzene | 23.1 | 5.0 | ug/kg | 50.0 | ND | 46 | 50-150 | | | MS-05 |
| Styrene | 12.8 | 5.0 | ug/kg | 50.0 | ND | 26 | 50-150 | | | MS-05 |
| tert-Butylbenzene | 21.7 | 5.0 | ug/kg | 50.0 | ND | 43 | 50-150 | | | MS-05 |
| Tetrachloroethene | 19.0 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | | | MS-05 |
| Toluene | 17.8 | 5.0 | ug/kg | 50.0 | ND | 36 | 11-140 | | | |
| trans-1,2-Dichloroethene | 26.9 | 5.0 | ug/kg | 50.0 | ND | 54 | 50-150 | | | |
| trans-1,3-Dichloropropene | 19.2 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | | | MS-05 |
| Trichloroethene | 20.8 | 5.0 | ug/kg | 50.0 | ND | 42 | 10-144 | | | |
| Trichlorofluoromethane | 29.8 | 5.0 | ug/kg | 50.0 | ND | 60 | 50-150 | | | |
| Vinyl chloride | 36.3 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *58.9* | | *ug/kg* | *50.0* | | *118* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *44.9* | | *ug/kg* | *50.0* | | *90* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *54.7* | | *ug/kg* | *50.0* | | *109* | *84-120* | | | |
| *Surr: Toluene-d8* | *49.8* | | *ug/kg* | *50.0* | | *100* | *82-120* | | | |
| **Matrix Spike Dup (W5K0373-MSD1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 21:37 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 32.2 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | 12 | 25 | |
| 1,1,1-Trichloroethane | 43.5 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | 16 | 25 | |
| 1,1,2,2-Tetrachloroethane | 71.8 | 5.0 | ug/kg | 50.0 | ND | 144 | 50-150 | 11 | 25 | |
| 1,1,2-Trichloroethane | 34.0 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | 15 | 25 | |
| 1,1-Dichloroethane | 45.8 | 5.0 | ug/kg | 50.0 | ND | 92 | 50-150 | 12 | 25 | |
| 1,1-Dichloroethene | 45.8 | 5.0 | ug/kg | 50.0 | ND | 92 | 38-139 | 16 | 25 | |
| 1,1-Dichloropropene | 39.7 | 5.0 | ug/kg | 50.0 | ND | 79 | 50-150 | 16 | 25 | |
| 1,2,3-Trichlorobenzene | 9.53 | 5.0 | ug/kg | 50.0 | ND | 19 | 50-150 | 43 | 25 | MS-05 |
| 1,2,3-Trichloropropane | 78.0 | 5.0 | ug/kg | 50.0 | ND | 156 | 50-150 | 10 | 25 | MS-05 |
| 1,2,4-Trichlorobenzene | 9.88 | 5.0 | ug/kg | 50.0 | ND | 20 | 50-150 | 23 | 25 | MS-05 |
| 1,2,4-Trimethylbenzene | 34.0 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | 11 | 25 | |
| 1,2-Dibromo-3-chloropropane | 53.7 | 5.0 | ug/kg | 50.0 | ND | 107 | 50-150 | 6 | 25 | |
| 1,2-Dibromoethane (EDB) | 35.9 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | 16 | 25 | |
| 1,2-Dichloroethane | 44.0 | 5.0 | ug/kg | 50.0 | ND | 88 | 50-150 | 9 | 25 | |
| 1,2-Dichloropropane | 37.7 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | 13 | 25 | |
| 1,3,5-Trimethylbenzene | 35.4 | 5.0 | ug/kg | 50.0 | ND | 71 | 50-150 | 9 | 25 | |
| 1,3-Dichloropropane | 35.6 | 5.0 | ug/kg | 50.0 | ND | 71 | 50-150 | 14 | 25 | |
| 2,2-Dichloropropane | 47.0 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | 12 | 25 | |
| 2-Butanone | 74.4 | 5.0 | ug/kg | 50.0 | ND | 149 | 50-150 | 6 | 25 | |
| 2-Chloroethyl vinyl ether | 17.8 | 5.0 | ug/kg | 50.0 | ND | 36 | 50-150 | 14 | 25 | MS-05 |
| 2-Chlorotoluene | 43.9 | 5.0 | ug/kg | 50.0 | ND | 88 | 50-150 | 8 | 25 | |
| 2-Hexanone | 45.1 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | 8 | 25 | |



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Bakersfield, CA 93301 CA, 93301

**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD1)** | **Source: 5I25014-01RE1** | | | Analyzed: 11/06/15 21:37 | | | | | | |
| 4-Chlorotoluene | 42.8 | 5.0 | ug/kg | 50.0 | ND | 86 | 50-150 | 8 | 25 | |
| 4-Methyl-2-pentanone | 50.1 | 5.0 | ug/kg | 50.0 | ND | 100 | 50-150 | 5 | 25 | |
| Acetone | 86.0 | 5.0 | ug/kg | 50.0 | 103 | NR | 50-150 | 12 | 25 | MS-05 |
| Acrolein | 13.7 | 5.0 | ug/kg | 50.0 | ND | 27 | 50-150 | 25 | 25 | MS-05 |
| Acrylonitrile | 63.9 | 5.0 | ug/kg | 50.0 | ND | 128 | 50-150 | 2 | 25 | |
| Benzene | 40.8 | 5.0 | ug/kg | 50.0 | ND | 82 | 30-134 | 15 | 25 | |
| Bromobenzene | 52.5 | 5.0 | ug/kg | 50.0 | ND | 105 | 50-150 | 10 | 25 | |
| Bromochloromethane | 47.4 | 5.0 | ug/kg | 50.0 | ND | 95 | 50-150 | 9 | 25 | |
| Bromodichloromethane | 36.5 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | 13 | 25 | |
| Bromoform | 33.6 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | 14 | 25 | |
| Bromomethane | 53.1 | 5.0 | ug/kg | 50.0 | ND | 106 | 50-150 | 13 | 25 | |
| Carbon tetrachloride | 41.9 | 5.0 | ug/kg | 50.0 | ND | 84 | 50-150 | 15 | 25 | |
| Chlorobenzene | 33.3 | 5.0 | ug/kg | 50.0 | ND | 67 | 3-135 | 13 | 25 | |
| Chloroethane | 50.0 | 5.0 | ug/kg | 50.0 | ND | 100 | 50-150 | 13 | 25 | |
| Chloroform | 41.7 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | 13 | 25 | |
| Chloromethane | 55.6 | 5.0 | ug/kg | 50.0 | ND | 111 | 50-150 | 9 | 25 | |
| cis-1,2-Dichloroethene | 43.4 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | 13 | 25 | |
| cis-1,3-Dichloropropene | 37.6 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | 14 | 25 | |
| Dibromochloromethane | 30.4 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | 15 | 25 | |
| Dibromomethane | 41.2 | 5.0 | ug/kg | 50.0 | ND | 82 | 50-150 | 10 | 25 | |
| Dichlorodifluoromethane (Freon 12) | 54.2 | 5.0 | ug/kg | 50.0 | ND | 108 | 50-150 | 16 | 25 | |
| Ethylbenzene | 30.4 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | 13 | 25 | |
| Hexachlorobutadiene | 8.99 | 5.0 | ug/kg | 50.0 | ND | 18 | 50-150 | 12 | 25 | MS-05 |
| Isopropylbenzene | 50.0 | 5.0 | ug/kg | 50.0 | ND | 100 | 50-150 | 7 | 25 | |
| m,p-Xylene | 29.2 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | 11 | 25 | |
| m-Dichlorobenzene | 31.4 | 5.0 | ug/kg | 50.0 | ND | 63 | 50-150 | 10 | 25 | |
| Methyl tert-butyl ether (MTBE) | 54.5 | 5.0 | ug/kg | 50.0 | ND | 109 | 50-150 | 5 | 25 | |
| Methylene chloride | 63.3 | 5.0 | ug/kg | 50.0 | 38.3 | 50 | 50-150 | 8 | 25 | |
| Naphthalene | 14.3 | 5.0 | ug/kg | 50.0 | ND | 29 | 50-150 | 42 | 25 | MS-05 |
| n-Butylbenzene | 23.5 | 5.0 | ug/kg | 50.0 | ND | 47 | 50-150 | 5 | 25 | MS-05 |
| n-Propylbenzene | 42.7 | 5.0 | ug/kg | 50.0 | ND | 85 | 50-150 | 7 | 25 | |
| o-Dichlorobenzene | 29.1 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | 10 | 25 | |
| o-Xylene | 25.1 | 5.0 | ug/kg | 50.0 | ND | 50 | 50-150 | 14 | 25 | |
| p-Dichlorobenzene | 29.9 | 5.0 | ug/kg | 50.0 | ND | 60 | 50-150 | 10 | 25 | |
| p-Isopropyltoluene | 27.9 | 5.0 | ug/kg | 50.0 | ND | 56 | 50-150 | 7 | 25 | |
| sec-Butylbenzene | 35.1 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | 7 | 25 | |
| Styrene | 25.7 | 5.0 | ug/kg | 50.0 | ND | 51 | 50-150 | 15 | 25 | |
| tert-Butylbenzene | 35.8 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | 9 | 25 | |
| Tetrachloroethene | 24.3 | 5.0 | ug/kg | 50.0 | ND | 49 | 50-150 | 15 | 25 | MS-05 |



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Bakersfield, CA 93301 CA, 93301

**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD1)** | **Source: 5I25014-01RE1** | | | Analyzed: 11/06/15 21:37 | | | | | | |
| Toluene | 28.8 | 5.0 | ug/kg | 50.0 | ND | 58 | 11-140 | 16 | 25 | |
| trans-1,2-Dichloroethene | 43.8 | 5.0 | ug/kg | 50.0 | ND | 88 | 50-150 | 14 | 25 | |
| trans-1,3-Dichloropropene | 36.6 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | 14 | 25 | |
| Trichloroethene | 34.4 | 5.0 | ug/kg | 50.0 | ND | 69 | 10-144 | 17 | 25 | |
| Trichlorofluoromethane | 49.6 | 5.0 | ug/kg | 50.0 | ND | 99 | 50-150 | 18 | 25 | |
| Vinyl chloride | 52.1 | 5.0 | ug/kg | 50.0 | ND | 104 | 50-150 | 14 | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *66.9* | | *ug/kg* | *50.0* | | *134* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *35.4* | | *ug/kg* | *50.0* | | *71* | *85-116* | | | *S-04* |
| *Surr: Dibromofluoromethane* | *57.7* | | *ug/kg* | *50.0* | | *115* | *84-120* | | | |
| *Surr: Toluene-d8* | *42.5* | | *ug/kg* | *50.0* | | *85* | *82-120* | | | |
| **Matrix Spike Dup (W5K0373-MSD2)** | **Source: 5J02045-01RE1** | | | Analyzed: 11/06/15 17:55 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 43.6 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | 26 | 25 | MS-05 |
| 1,1,1-Trichloroethane | 46.8 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | 16 | 25 | |
| 1,1,2,2-Tetrachloroethane | 45.1 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | 35 | 25 | MS-05 |
| 1,1,2-Trichloroethane | 46.2 | 5.0 | ug/kg | 50.0 | ND | 92 | 50-150 | 30 | 25 | MS-05 |
| 1,1-Dichloroethane | 45.2 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | 18 | 25 | |
| 1,1-Dichloroethene | 41.0 | 5.0 | ug/kg | 50.0 | ND | 82 | 38-139 | 13 | 25 | |
| 1,1-Dichloropropene | 44.8 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | 14 | 25 | |
| 1,2,3-Trichlorobenzene | 32.9 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | 30 | 25 | MS-05 |
| 1,2,3-Trichloropropane | 43.7 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | 31 | 25 | MS-05 |
| 1,2,4-Trichlorobenzene | 33.6 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | 27 | 25 | MS-05 |
| 1,2,4-Trimethylbenzene | 40.3 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | 19 | 25 | |
| 1,2-Dibromo-3-chloropropane | 44.2 | 5.0 | ug/kg | 50.0 | ND | 88 | 50-150 | 41 | 25 | MS-05 |
| 1,2-Dibromoethane (EDB) | 50.2 | 5.0 | ug/kg | 50.0 | ND | 100 | 50-150 | 32 | 25 | MS-05 |
| 1,2-Dichloroethane | 46.8 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | 26 | 25 | MS-05 |
| 1,2-Dichloropropane | 46.5 | 5.0 | ug/kg | 50.0 | ND | 93 | 50-150 | 21 | 25 | |
| 1,3,5-Trimethylbenzene | 39.1 | 5.0 | ug/kg | 50.0 | ND | 78 | 50-150 | 15 | 25 | |
| 1,3-Dichloropropane | 48.2 | 5.0 | ug/kg | 50.0 | ND | 96 | 50-150 | 30 | 25 | MS-05 |
| 2,2-Dichloropropane | 48.8 | 5.0 | ug/kg | 50.0 | ND | 98 | 50-150 | 17 | 25 | |
| 2-Butanone | 125 | 5.0 | ug/kg | 50.0 | ND | 251 | 50-150 | NR | 25 | MS-05 |
| 2-Chloroethyl vinyl ether | 29.9 | 5.0 | ug/kg | 50.0 | ND | 60 | 50-150 | 30 | 25 | MS-05 |
| 2-Chlorotoluene | 42.6 | 5.0 | ug/kg | 50.0 | ND | 85 | 50-150 | 19 | 25 | |
| 2-Hexanone | 46.5 | 5.0 | ug/kg | 50.0 | ND | 93 | 50-150 | 34 | 25 | MS-05 |
| 4-Chlorotoluene | 43.2 | 5.0 | ug/kg | 50.0 | ND | 86 | 50-150 | 22 | 25 | |
| 4-Methyl-2-pentanone | 77.7 | 5.0 | ug/kg | 50.0 | ND | 155 | 50-150 | 42 | 25 | MS-05 |
| Acetone | 55.6 | 5.0 | ug/kg | 50.0 | 186 | NR | 50-150 | 40 | 25 | MS-05 |
| Acrolein | 6.63 | 5.0 | ug/kg | 50.0 | ND | 13 | 50-150 | 100 | 25 | MS-05 |
| Acrylonitrile | 46.2 | 5.0 | ug/kg | 50.0 | ND | 92 | 50-150 | 31 | 25 | MS-05 |
| Benzene | 45.9 | 5.0 | ug/kg | 50.0 | ND | 92 | 30-134 | 18 | 25 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD2)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 17:55 | | | | | | |
| Bromobenzene | 41.4 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | 26 | 25 | MS-05 |
| Bromochloromethane | 49.2 | 5.0 | ug/kg | 50.0 | ND | 98 | 50-150 | 28 | 25 | MS-05 |
| Bromodichloromethane | 48.6 | 5.0 | ug/kg | 50.0 | ND | 97 | 50-150 | 26 | 25 | MS-05 |
| Bromoform | 44.4 | 5.0 | ug/kg | 50.0 | ND | 89 | 50-150 | 35 | 25 | MS-05 |
| Bromomethane | 45.3 | 5.0 | ug/kg | 50.0 | ND | 91 | 50-150 | 18 | 25 | |
| Carbon tetrachloride | 46.9 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | 15 | 25 | |
| Chlorobenzene | 43.9 | 5.0 | ug/kg | 50.0 | ND | 88 | 3-135 | 21 | 25 | |
| Chloroethane | 42.2 | 5.0 | ug/kg | 50.0 | ND | 84 | 50-150 | 16 | 25 | |
| Chloroform | 45.6 | 5.0 | ug/kg | 50.0 | ND | 91 | 50-150 | 21 | 25 | |
| Chloromethane | 44.3 | 5.0 | ug/kg | 50.0 | ND | 89 | 50-150 | 17 | 25 | |
| cis-1,2-Dichloroethene | 54.0 | 5.0 | ug/kg | 50.0 | ND | 108 | 50-150 | 141 | 25 | MS-05 |
| cis-1,3-Dichloropropene | 50.3 | 5.0 | ug/kg | 50.0 | ND | 101 | 50-150 | 26 | 25 | MS-05 |
| Dibromochloromethane | 51.0 | 5.0 | ug/kg | 50.0 | ND | 102 | 50-150 | 33 | 25 | MS-05 |
| Dibromomethane | 47.0 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | 30 | 25 | MS-05 |
| Dichlorodifluoromethane (Freon 12) | 45.0 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | 12 | 25 | |
| Ethylbenzene | 41.8 | 5.0 | ug/kg | 50.0 | ND | 84 | 50-150 | 18 | 25 | |
| Hexachlorobutadiene | 26.0 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | 4 | 25 | |
| Isopropylbenzene | 38.7 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | 15 | 25 | |
| m,p-Xylene | 44.0 | 5.0 | ug/kg | 50.0 | ND | 88 | 50-150 | 18 | 25 | |
| m-Dichlorobenzene | 41.9 | 5.0 | ug/kg | 50.0 | ND | 84 | 50-150 | 23 | 25 | |
| Methyl tert-butyl ether (MTBE) | 47.8 | 5.0 | ug/kg | 50.0 | ND | 96 | 50-150 | 34 | 25 | MS-05 |
| Methylene chloride | 51.6 | 5.0 | ug/kg | 50.0 | 6.15 | 91 | 50-150 | 22 | 25 | |
| Naphthalene | 35.6 | 5.0 | ug/kg | 50.0 | ND | 71 | 50-150 | 42 | 25 | MS-05 |
| n-Butylbenzene | 36.2 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | 9 | 25 | |
| n-Propylbenzene | 38.4 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | 14 | 25 | |
| o-Dichlorobenzene | 42.6 | 5.0 | ug/kg | 50.0 | ND | 85 | 50-150 | 27 | 25 | MS-05 |
| o-Xylene | 41.4 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | 21 | 25 | |
| p-Dichlorobenzene | 41.4 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | 25 | 25 | |
| p-Isopropyltoluene | 36.4 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | 11 | 25 | |
| sec-Butylbenzene | 38.3 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | 10 | 25 | |
| Styrene | 44.4 | 5.0 | ug/kg | 50.0 | ND | 89 | 50-150 | 24 | 25 | |
| tert-Butylbenzene | 37.8 | 5.0 | ug/kg | 50.0 | ND | 76 | 50-150 | 12 | 25 | |
| Tetrachloroethene | 41.6 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | 15 | 25 | |
| Toluene | 44.0 | 5.0 | ug/kg | 50.0 | ND | 88 | 11-140 | 18 | 25 | |
| trans-1,2-Dichloroethene | 42.4 | 5.0 | ug/kg | 50.0 | ND | 85 | 50-150 | 15 | 25 | |
| trans-1,3-Dichloropropene | 51.6 | 5.0 | ug/kg | 50.0 | ND | 103 | 50-150 | 30 | 25 | MS-05 |
| Trichloroethene | 43.7 | 5.0 | ug/kg | 50.0 | ND | 87 | 10-144 | 16 | 25 | |
| Trichlorofluoromethane | 43.4 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | 12 | 25 | |
| Vinyl chloride | 42.8 | 5.0 | ug/kg | 50.0 | ND | 86 | 50-150 | 15 | 25 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD2)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 17:55 | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *55.7* | | *ug/kg* | *50.0* | | *111* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *51.2* | | *ug/kg* | *50.0* | | *102* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *52.6* | | *ug/kg* | *50.0* | | *105* | *84-120* | | | |
| *Surr: Toluene-d8* | *52.7* | | *ug/kg* | *50.0* | | *105* | *82-120* | | | |
| **Matrix Spike Dup (W5K0373-MSD3)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/06/15 22:40 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 16.5 | 5.0 | ug/kg | 50.0 | ND | 33 | 50-150 | 8 | 25 | MS-05 |
| 1,1,1-Trichloroethane | 31.7 | 5.0 | ug/kg | 50.0 | ND | 63 | 50-150 | 17 | 25 | |
| 1,1,2,2-Tetrachloroethane | 13.6 | 5.0 | ug/kg | 50.0 | ND | 27 | 50-150 | 27 | 25 | MS-05 |
| 1,1,2-Trichloroethane | 17.0 | 5.0 | ug/kg | 50.0 | ND | 34 | 50-150 | 3 | 25 | MS-05 |
| 1,1-Dichloroethane | 30.2 | 5.0 | ug/kg | 50.0 | ND | 60 | 50-150 | 4 | 25 | |
| 1,1-Dichloroethene | 31.4 | 5.0 | ug/kg | 50.0 | ND | 63 | 38-139 | 12 | 25 | |
| 1,1-Dichloropropene | 29.3 | 5.0 | ug/kg | 50.0 | ND | 59 | 50-150 | 18 | 25 | |
| 1,2,3-Trichlorobenzene | 10.0 | 5.0 | ug/kg | 50.0 | ND | 20 | 50-150 | 27 | 25 | MS-05 |
| 1,2,3-Trichloropropane | 14.5 | 5.0 | ug/kg | 50.0 | ND | 29 | 50-150 | 29 | 25 | MS-05 |
| 1,2,4-Trichlorobenzene | 10.8 | 5.0 | ug/kg | 50.0 | ND | 22 | 50-150 | 22 | 25 | MS-05 |
| 1,2,4-Trimethylbenzene | 19.1 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | 9 | 25 | MS-05 |
| 1,2-Dibromo-3-chloropropane | 13.4 | 5.0 | ug/kg | 50.0 | ND | 27 | 50-150 | 19 | 25 | MS-05 |
| 1,2-Dibromoethane (EDB) | 16.4 | 5.0 | ug/kg | 50.0 | ND | 33 | 50-150 | 8 | 25 | MS-05 |
| 1,2-Dichloroethane | 24.7 | 5.0 | ug/kg | 50.0 | ND | 49 | 50-150 | 6 | 25 | MS-05 |
| 1,2-Dichloropropane | 22.8 | 5.0 | ug/kg | 50.0 | ND | 46 | 50-150 | 3 | 25 | MS-05 |
| 1,3,5-Trimethylbenzene | 21.3 | 5.0 | ug/kg | 50.0 | ND | 43 | 50-150 | 13 | 25 | MS-05 |
| 1,3-Dichloropropane | 17.7 | 5.0 | ug/kg | 50.0 | ND | 35 | 50-150 | 5 | 25 | MS-05 |
| 2,2-Dichloropropane | 34.4 | 5.0 | ug/kg | 50.0 | ND | 69 | 50-150 | 11 | 25 | |
| 2-Butanone | 33.2 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | 6 | 25 | |
| 2-Chloroethyl vinyl ether | 9.57 | 5.0 | ug/kg | 50.0 | ND | 19 | 50-150 | 12 | 25 | MS-05 |
| 2-Chlorotoluene | 19.7 | 5.0 | ug/kg | 50.0 | ND | 39 | 50-150 | 8 | 25 | MS-05 |
| 2-Hexanone | 26.2 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | 12 | 25 | |
| 4-Chlorotoluene | 18.5 | 5.0 | ug/kg | 50.0 | ND | 37 | 50-150 | 7 | 25 | MS-05 |
| 4-Methyl-2-pentanone | 32.5 | 5.0 | ug/kg | 50.0 | ND | 65 | 50-150 | 22 | 25 | |
| Acetone | 190 | 5.0 | ug/kg | 50.0 | 947 | NR | 50-150 | 9 | 25 | MS-05 |
| Acrolein | 4.50 | 5.0 | ug/kg | 50.0 | ND | 9 | 50-150 | NR | 25 | MS-05 |
| Acrylonitrile | 38.6 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | 11 | 25 | |
| Benzene | 26.0 | 5.0 | ug/kg | 50.0 | ND | 52 | 30-134 | 9 | 25 | |
| Bromobenzene | 14.8 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | 4 | 25 | MS-05 |
| Bromochloromethane | 26.1 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | 8 | 25 | |
| Bromodichloromethane | 21.1 | 5.0 | ug/kg | 50.0 | ND | 42 | 50-150 | 4 | 25 | MS-05 |
| Bromoform | 12.8 | 5.0 | ug/kg | 50.0 | ND | 26 | 50-150 | 4 | 25 | MS-05 |
| Bromomethane | 15.6 | 5.0 | ug/kg | 50.0 | ND | 31 | 50-150 | 26 | 25 | MS-05 |
| Carbon tetrachloride | 33.2 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | 17 | 25 | |

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**Date Reported:** 11/11/15 15:51

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD3)** | **Source: 5J02046-01RE1** | | | Analyzed: 11/06/15 22:40 | | | | | | |
| Chlorobenzene | 17.2 | 5.0 | ug/kg | 50.0 | ND | 34 | 3-135 | 15 | 25 | |
| Chloroethane | 34.7 | 5.0 | ug/kg | 50.0 | ND | 69 | 50-150 | 1 | 25 | |
| Chloroform | 25.8 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | 4 | 25 | |
| Chloromethane | 30.8 | 5.0 | ug/kg | 50.0 | ND | 62 | 50-150 | 0.4 | 25 | |
| cis-1,2-Dichloroethene | 30.8 | 5.0 | ug/kg | 50.0 | ND | 62 | 50-150 | 3 | 25 | |
| cis-1,3-Dichloropropene | 20.5 | 5.0 | ug/kg | 50.0 | ND | 41 | 50-150 | 1 | 25 | MS-05 |
| Dibromochloromethane | 16.0 | 5.0 | ug/kg | 50.0 | ND | 32 | 50-150 | 0.1 | 25 | MS-05 |
| Dibromomethane | 20.4 | 5.0 | ug/kg | 50.0 | ND | 41 | 50-150 | 9 | 25 | MS-05 |
| Dichlorodifluoromethane (Freon 12) | 38.4 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | 11 | 25 | |
| Ethylbenzene | 20.2 | 5.0 | ug/kg | 50.0 | ND | 40 | 50-150 | 21 | 25 | MS-05 |
| Hexachlorobutadiene | 15.1 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | 29 | 25 | MS-05 |
| Isopropylbenzene | 24.4 | 5.0 | ug/kg | 50.0 | ND | 49 | 50-150 | 5 | 25 | MS-05 |
| m,p-Xylene | 20.4 | 5.0 | ug/kg | 50.0 | ND | 41 | 50-150 | 22 | 25 | MS-05 |
| m-Dichlorobenzene | 16.1 | 5.0 | ug/kg | 50.0 | ND | 32 | 50-150 | 6 | 25 | MS-05 |
| Methyl tert-butyl ether (MTBE) | 33.8 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | 11 | 25 | |
| Methylene chloride | 36.5 | 5.0 | ug/kg | 50.0 | 16.7 | 40 | 50-150 | 5 | 25 | MS-05 |
| Naphthalene | 8.30 | 5.0 | ug/kg | 50.0 | ND | 17 | 50-150 | 10 | 25 | MS-05 |
| n-Butylbenzene | 21.9 | 5.0 | ug/kg | 50.0 | ND | 44 | 50-150 | 14 | 25 | MS-05 |
| n-Propylbenzene | 23.2 | 5.0 | ug/kg | 50.0 | ND | 46 | 50-150 | 10 | 25 | MS-05 |
| o-Dichlorobenzene | 14.1 | 5.0 | ug/kg | 50.0 | ND | 28 | 50-150 | 2 | 25 | MS-05 |
| o-Xylene | 16.9 | 5.0 | ug/kg | 50.0 | ND | 34 | 50-150 | 20 | 25 | MS-05 |
| p-Dichlorobenzene | 14.8 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | 5 | 25 | MS-05 |
| p-Isopropyltoluene | 22.4 | 5.0 | ug/kg | 50.0 | ND | 45 | 50-150 | 11 | 25 | MS-05 |
| sec-Butylbenzene | 26.1 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | 12 | 25 | |
| Styrene | 15.2 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | 17 | 25 | MS-05 |
| tert-Butylbenzene | 24.0 | 5.0 | ug/kg | 50.0 | ND | 48 | 50-150 | 10 | 25 | MS-05 |
| Tetrachloroethene | 23.9 | 5.0 | ug/kg | 50.0 | ND | 48 | 50-150 | 23 | 25 | MS-05 |
| Toluene | 21.5 | 5.0 | ug/kg | 50.0 | ND | 43 | 11-140 | 19 | 25 | |
| trans-1,2-Dichloroethene | 28.8 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | 7 | 25 | |
| trans-1,3-Dichloropropene | 18.9 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | 2 | 25 | MS-05 |
| Trichloroethene | 24.6 | 5.0 | ug/kg | 50.0 | ND | 49 | 10-144 | 17 | 25 | |
| Trichlorofluoromethane | 34.8 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | 16 | 25 | |
| Vinyl chloride | 36.2 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | 0.3 | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *58.7* | | *ug/kg* | *50.0* | | *117* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *49.1* | | *ug/kg* | *50.0* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *54.0* | | *ug/kg* | *50.0* | | *108* | *84-120* | | | |
| *Surr: Toluene-d8* | *51.0* | | *ug/kg* | *50.0* | | *102* | *82-120* | | | |



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Law Offices of McMurtrey, Hartsock & Worth
2001 22nd Street, Suite 100
Bakersfield, CA 93301 CA, 93301

**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:51

## Notes and Definitions

| | |
|---|---|
| **S-04** | The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect. |
| **R-03** | The RPD is not applicable for result below the reporting limit (either ND or J value). |
| **R-02** | The RPD was outside of QC acceptance limits due to possible matrix interference. |
| **Q-ME** | Acceptable QC with marginal exceedance |
| **Q-12** | The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data. |
| **MS-05** | The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable. |
| **M-05** | Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution. |
| **M-02** | Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution. |
| **HC-02** | Hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel. |
| **C-3640** | The "GPC Cleanup" was performed to the sample. |
| **A-01** | Analyses are not controlled on RPD values from sample concentrations less than or at the reporting limit. |
| **ND** | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| **NR** | Not Reportable |
| **Dil** | Dilution |
| **dry** | Sample results reported on a dry weight basis |
| **RPD** | Relative Percent Difference |
| **% Rec** | Percent Recovery |
| **Sub** | Subcontracted analysis, original report available upon request |
| **MDL** | Method Detection Limit |
| **MDA** | Minimum Detectable Activity |
| **MRL** | Method Reporting Limit |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



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# CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| **Client:** | Law Offices of McMurtrey, Hartsock & Worth<br>2001 22nd Street, Suite 100<br>Bakersfield, CA 93301 CA, 93301 | **Report Date:** | 11/11/15 15:57 |
| | | **Received Date:** | 10/02/15 15:50 |
| | | **Turn Around:** | Normal |
| **Attention:** | Robert Hartsock | **Client Project:** | Cawelo Water District |
| **Phone:** | (661) 322-4417 | | |
| **Fax:** | - | | |
| **Work Order(s):** | 5J02046 | | |

**NELAC #4047-002 ORELAP ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143**

*The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.*

Dear Robert Hartsock :

Enclosed are the results of analyses for samples received 10/02/15 15:50 with the Chain of Custody document. The samples were received in good condition, at 9.9 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

**Case Narrative:**

The samples consisted of whole pistachio fruits collected in plastic bags. The samples were received intact and in good condition. Composite samples were prepared by collecting approximately twenty grams of fruit (only considering the edible portion) from each bag to provide a representative sample composition for each sample. The fruits were prepared by first manually separating the flesh from the pit of each fruit, and then cracking the pit open to release the pistachio seed from the pit. Care was taken to prevent cross-contamination between the exterior of the fruit and the edible portions of the pistachio. The collected seeds were ground in a steel-blade homogenizer for forty-five seconds, transferred to a glass jar with a PTFE-lined lid, and stored at 4°C until analysis.

Being composed of organic matter, these samples inherently contain a large variety of volatile organic material, including but not limited to aldehydes, ketones, alcohols, and aromatics. Due to the extreme interferences observed in preliminary analyses of these samples, several dilutions were performed in order to satisfy the quality control measures required by some analytical methods. The volatile nature of the interferants means that the methods most affected by these matrix effects are those measuring volatile organics—EPA 8260 and EPA 8015. For this reason, two sets of samples were analyzed—one with a large dilution to satisfy the quality control requirements of each analytical method, and one with no dilution factor to determine the presence or absence of the analytes of interest. The diluted samples can be identified by the lab work order numbers 5J02046-01, -02, -03. The undiluted samples can be identified by work order numbers 5J02046-01RE1, -02RE1, -03RE1.

For both EPA 8015 GRO and EPA 8015 DRO, the results are determined by integrating an entire chromatographic range and summing all of the found compounds in that range. This approach will include all hydrocarbons that have a similar molecular weight (C6 to C10 for GRO, and C10-C23 for DRO), so it is susceptible to matrix interferences for samples high in organic matter. For all detections in these methods, the sample chromatogram is compared to a chromatogram of an authentic standard to confirm that the hydrocarbon pattern corresponds to the particular fuel. In the case of sample 5J02046, the compounds identified in the quantitation range for EPA 8015 DRO did not match the hydrocarbon pattern from the authentic standard, indicating that diesel fuel is not present in each sample. In the report, these samples are also tagged with the qualifier HC-02.

**Reviewed by:**

Agustin Pierri For Alfredo E. Pierri
Project Manager



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Lab ID | Matrix | Date Sampled |
|---|---|---|---|---|
| P1 Composite | Leo Raab | 5J02046-01 | Solid | 10/01/15 08:42 |
| Comments: Composite of P1D1, P1D2, P1D3, P1D4 and P1D5 | | | | |
| Comments: Composite of P1D1, P1D2, P1D3, P1D4 and P1D5 | | | | |
| P2 Composite | Leo Raab | 5J02046-02 | Solid | 10/01/15 07:20 |
| Comments: Composite of P2D1, P2D2, P2D3, P2D4 and P2D5 | | | | |
| Comments: Composite of P2D1, P2D2, P2D3, P2D4 and P2D5 | | | | |
| P3R1+2 | Leo Raab | 5J02046-03 | Solid | 10/01/15 12:37 |
| Comments: Composite of P3R1 and P3R2 | | | | |
| Comments: Composite of P3R1 and P3R2 | | | | |

## ANALYSES

Anions in solids by EPA 9056/300.0

Hydrocarbons by EPA 8015B

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Semivolatile Organics - Low Level by GC/MS SIM Mode

Volatile Organic Compounds by EPA Method 8260B



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-01 P1 Composite**

**Sampled:** 10/01/15 08:42 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P1D1, P1D2, P1D3, P1D4 and P1D5**

## Anions in solids by EPA 9056/300.0

Method: EPA 9056A Batch: W5J0909 Prepared: 10/17/15 11:00 Analyst: atl

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromide, Water Leachable | ND | 15 | mg/kg | 1 | 10/17/15 19:10 | |
| **Chloride, Water Leachable** | **87** | 15 | mg/kg | 1 | 10/17/15 19:10 | |
| **Fluoride, Water Leachable** | **49** | 3.0 | mg/kg | 1 | 10/17/15 19:10 | |
| Nitrate as NO3, Water Leachable | ND | 15 | mg/kg | 1 | 10/17/15 19:10 | |
| **Sulfate as S, Water Leachable** | **390** | 15 | mg/kg | 1 | 10/17/15 19:10 | |

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5J1138 Prepared: 10/21/15 14:29 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 250 | mg/kg | 1 | 10/21/15 19:58 | |
| *Surr: 4-Bromofluorobenzene* | *84 %* | Conc:*105* | *54-139* | % | | | |

Method: EPA 8015B Batch: W5J1579 Prepared: 10/29/15 11:24 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Diesel Range Organics** | **3000** | | 98 | mg/kg | 1 | 10/30/15 02:56 | HC-02 |
| *Surr: n-Tetracosane* | *95 %* | Conc:*468* | *53-134* | % | | | |

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6010B Batch: W5J1378 Prepared: 10/26/15 15:00 Analyst: jck

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Boron, Total** | **6.4** | 3.8 | mg/kg | 1 | 10/28/15 15:37 | |
| **Calcium, Total** | **770** | 50 | mg/kg | 1 | 10/28/15 15:37 | |
| **Iron, Total** | **20** | 19 | mg/kg | 1 | 10/28/15 15:37 | |
| Lithium, Total | ND | 5.0 | mg/kg | 1 | 10/28/15 15:37 | |
| **Magnesium, Total** | **690** | 190 | mg/kg | 1 | 10/28/15 15:37 | |
| **Manganese, Total** | **9.3** | 3.8 | mg/kg | 1 | 10/28/15 15:37 | |
| **Potassium, Total** | **5900** | 190 | mg/kg | 1 | 10/28/15 15:37 | |
| Sodium, Total | ND | 380 | mg/kg | 1 | 10/28/15 15:37 | |

Method: EPA 6020A Batch: W5J1379 Prepared: 10/26/15 15:02 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Antimony, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 21:03 | |
| Arsenic, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 21:03 | |
| **Barium, Total** | **2.2** | 1.9 | mg/kg | 1 | 10/28/15 21:03 | |
| Beryllium, Total | ND | 1.1 | mg/kg | 1 | 10/28/15 21:03 | |
| Cadmium, Total | ND | 0.76 | mg/kg | 1 | 10/28/15 21:03 | |
| Chromium, Total | ND | 3.8 | mg/kg | 1 | 10/28/15 21:03 | |
| Cobalt, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 21:03 | |
| **Copper, Total** | **29** | 1.9 | mg/kg | 1 | 10/28/15 21:03 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-01 P1 Composite**

**Sampled:** 10/01/15 08:42 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P1D1, P1D2, P1D3, P1D4 and P1D5**

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6020A Batch: W5J1379 Prepared: 10/26/15 15:02 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Molybdenum, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 21:03 | |
| Selenium, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 21:03 | |
| Silver, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 21:03 | |
| **Strontium, Total** | **10** | 1.9 | mg/kg | 1 | 10/28/15 21:03 | |
| Thallium, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 21:03 | |
| Uranium, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 21:03 | |
| **Zinc, Total** | **56** | 19 | mg/kg | 1 | 10/28/15 21:03 | |

Method: EPA 6020B Batch: W5J1379 Prepared: 10/26/15 15:02 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Lead, Total | ND | 1.9 | mg/kg | 1 | 10/28/15 21:03 | |
| Nickel, Total | ND | 3.8 | mg/kg | 1 | 10/28/15 21:03 | |
| Vanadium, Total | ND | 3.8 | mg/kg | 1 | 10/28/15 21:03 | |

## Semivolatile Organics - Low Level by GC/MS SIM Mode

Method: EPA 8270C SIM Batch: W5J0874 Prepared: 10/16/15 11:34 Analyst: mxw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| 2-Methylnaphthalene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| Acenaphthene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| Acenaphthylene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| Anthracene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| Benzo (a) anthracene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| Benzo (a) pyrene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| Benzo (b) fluoranthene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| Benzo (g,h,i) perylene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| Benzo (k) fluoranthene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| Chrysene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| Dibenzo (a,h) anthracene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| Fluoranthene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| Fluorene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| Indeno (1,2,3-cd) pyrene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| Naphthalene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| Phenanthrene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| Pyrene | ND | 65 | ug/kg | 1 | 10/30/15 07:56 | C-3640, M-02 |
| *Surr: 2-Fluorobiphenyl* | *65 %* | Conc:*1390* *0.1-109* | % | | | *C-3640, M-02* |
| *Surr: Nitrobenzene-d5* | *65 %* | Conc:*1400* *0.1-107* | % | | | *C-3640, M-02* |
| *Surr: Terphenyl-d14* | *74 %* | Conc:*1590* *28-128* | % | | | *C-3640, M-02* |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-01 P1 Composite**

**Sampled:** 10/01/15 08:42 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P1D1, P1D2, P1D3, P1D4 and P1D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0372 Prepared: 11/04/15 09:27 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 1,1,1-Trichloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 1,1,2-Trichloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 1,1-Dichloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 1,1-Dichloroethene | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 1,1-Dichloropropene | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 1,2,3-Trichloropropane | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 1,2-Dichloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 1,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 1,3-Dichloropropane | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 2,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 2-Butanone | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 2-Chlorotoluene | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 2-Hexanone | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 4-Chlorotoluene | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| 4-Methyl-2-pentanone | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Acetone | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Acrolein | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Acrylonitrile | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Benzene | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Bromobenzene | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Bromochloromethane | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Bromodichloromethane | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Bromoform | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Bromomethane | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Carbon tetrachloride | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Chlorobenzene | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Chloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Chloroform | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Chloromethane | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| cis-1,2-Dichloroethene | ND | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-01 P1 Composite**

**Sampled:** 10/01/15 08:42 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P1D1, P1D2, P1D3, P1D4 and P1D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0372 Prepared: 11/04/15 09:27 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Dibromochloromethane | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Dibromomethane | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Ethylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Hexachlorobutadiene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Isopropylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| m,p-Xylene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| m-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Methylene chloride | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Naphthalene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| n-Butylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| n-Propylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| o-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| o-Xylene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| p-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| p-Isopropyltoluene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| sec-Butylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Styrene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| tert-Butylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Tetrachloroethene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Toluene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| trans-1,2-Dichloroethene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| trans-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Trichloroethene | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Trichlorofluoromethane | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| Vinyl chloride | ND | | 1200 | ug/kg | 50 | 11/05/15 02:02 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *108 %* | Conc:*261* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *102 %* | Conc:*245* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *102 %* | Conc:*245* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *102 %* | Conc:*247* | *82-120* | % | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-01RE1 P1 Composite**

**Sampled:** 10/01/15 08:42 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P1D1, P1D2, P1D3, P1D4 and P1D5**

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5K0050 Prepared: 10/28/15 09:22 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 0.50 | mg/kg | 1 | 10/28/15 16:16 | |
| *Surr: 4-Bromofluorobenzene* | *0 %* | Conc:*0.00* | *54-139* | % | | | *S-04* |

Method: EPA 8015B Batch: W5K0345 Prepared: 10/30/15 17:00 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Diesel Range Organics** | **1100** | | 9.7 | mg/kg | 1 | 10/31/15 04:13 | HC-02 |
| *Surr: n-Tetracosane* | *49 %* | Conc:*23.7* | *53-134* | % | | | |

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| **Acetone** | **950** | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Acrolein | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Benzene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-01RE1 P1 Composite**

**Sampled:** 10/01/15 08:42 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P1D1, P1D2, P1D3, P1D4 and P1D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromobenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Bromoform | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Bromomethane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Chloroethane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Chloroform | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Chloromethane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Methylene chloride | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Naphthalene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| o-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Styrene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Toluene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | 1 | 11/06/15 14:13 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-01RE1 P1 Composite**

**Sampled:** 10/01/15 08:42 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P1D1, P1D2, P1D3, P1D4 and P1D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| *Surr: 1,2-Dichloroethane-d4* | *125 %* | Conc:*302* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *94 %* | Conc:*227* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *112 %* | Conc:*270* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *98 %* | Conc:*236* | *82-120* | % | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-02 P2 Composite**

**Sampled:** 10/01/15 07:20 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P2D1, P2D2, P2D3, P2D4 and P2D5**

## Anions in solids by EPA 9056/300.0

Method: EPA 9056A Batch: W5J0909 Prepared: 10/17/15 11:00 Analyst: atl

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromide, Water Leachable | ND | 15 | mg/kg | 1 | 10/17/15 21:58 | |
| **Chloride, Water Leachable** | **83** | 15 | mg/kg | 1 | 10/17/15 21:58 | |
| **Fluoride, Water Leachable** | **45** | 3.0 | mg/kg | 1 | 10/17/15 21:58 | |
| Nitrate as NO3, Water Leachable | ND | 15 | mg/kg | 1 | 10/17/15 21:58 | |
| **Sulfate as S, Water Leachable** | **290** | 15 | mg/kg | 1 | 10/17/15 21:58 | |

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5J1138 Prepared: 10/21/15 14:29 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 250 | mg/kg | 1 | 10/21/15 20:57 | |
| *Surr: 4-Bromofluorobenzene* | *88 %* | Conc:*110* | *54-139* | % | | | |

Method: EPA 8015B Batch: W5J1579 Prepared: 10/29/15 11:24 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Diesel Range Organics** | **1900** | | 94 | mg/kg | 1 | 10/30/15 04:03 | HC-02 |
| *Surr: n-Tetracosane* | *96 %* | Conc:*455* | *53-134* | % | | | |

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6010B Batch: W5J1378 Prepared: 10/26/15 15:00 Analyst: jck

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Boron, Total** | **8.2** | 4.0 | mg/kg | 1 | 10/28/15 15:43 | |
| **Calcium, Total** | **650** | 50 | mg/kg | 1 | 10/28/15 15:43 | |
| Iron, Total | ND | 20 | mg/kg | 1 | 10/28/15 15:43 | |
| Lithium, Total | ND | 5.0 | mg/kg | 1 | 10/28/15 15:43 | |
| **Magnesium, Total** | **680** | 200 | mg/kg | 1 | 10/28/15 15:43 | |
| **Manganese, Total** | **7.0** | 4.0 | mg/kg | 1 | 10/28/15 15:43 | |
| **Potassium, Total** | **6600** | 200 | mg/kg | 1 | 10/28/15 15:43 | |
| Sodium, Total | ND | 400 | mg/kg | 1 | 10/28/15 15:43 | |

Method: EPA 6020A Batch: W5J1379 Prepared: 10/26/15 15:02 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Antimony, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 21:17 | |
| Arsenic, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 21:17 | |
| **Barium, Total** | **2.2** | 2.0 | mg/kg | 1 | 10/28/15 21:17 | |
| Beryllium, Total | ND | 1.2 | mg/kg | 1 | 10/28/15 21:17 | |
| Cadmium, Total | ND | 0.80 | mg/kg | 1 | 10/28/15 21:17 | |
| Chromium, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 21:17 | |
| Cobalt, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 21:17 | |
| **Copper, Total** | **20** | 2.0 | mg/kg | 1 | 10/28/15 21:17 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-02 P2 Composite**

**Sampled:** 10/01/15 07:20 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P2D1, P2D2, P2D3, P2D4 and P2D5**

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6020A Batch: W5J1379 Prepared: 10/26/15 15:02 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Molybdenum, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 21:17 | |
| Selenium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 21:17 | |
| Silver, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 21:17 | |
| **Strontium, Total** | **11** | 2.0 | mg/kg | 1 | 10/28/15 21:17 | |
| Thallium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 21:17 | |
| Uranium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 21:17 | |
| **Zinc, Total** | **49** | 20 | mg/kg | 1 | 10/28/15 21:17 | |

Method: EPA 6020B Batch: W5J1379 Prepared: 10/26/15 15:02 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Lead, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 21:17 | |
| Nickel, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 21:17 | |
| Vanadium, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 21:17 | |

## Semivolatile Organics - Low Level by GC/MS SIM Mode

Method: EPA 8270C SIM Batch: W5J0874 Prepared: 10/16/15 11:34 Analyst: mxw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | M-02, C-3640 |
| 2-Methylnaphthalene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| Acenaphthene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| Acenaphthylene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| Anthracene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| Benzo (a) anthracene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| Benzo (a) pyrene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| Benzo (b) fluoranthene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| Benzo (g,h,i) perylene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| Benzo (k) fluoranthene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| Chrysene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| Dibenzo (a,h) anthracene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| Fluoranthene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| Fluorene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| Indeno (1,2,3-cd) pyrene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| Naphthalene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| Phenanthrene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| Pyrene | ND | 69 | ug/kg | 1 | 10/30/15 08:31 | C-3640, M-02 |
| *Surr: 2-Fluorobiphenyl* | *71 %* | Conc:*1630* *0.1-109* | % | | | *C-3640, M-02* |
| *Surr: Nitrobenzene-d5* | *80 %* | Conc:*1830* *0.1-107* | % | | | *C-3640, M-02* |
| *Surr: Terphenyl-d14* | *88 %* | Conc:*2020* *28-128* | % | | | *C-3640, M-02* |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-02 P2 Composite**

**Sampled:** 10/01/15 07:20 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P2D1, P2D2, P2D3, P2D4 and P2D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0372 Prepared: 11/04/15 09:27 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 1,1,1-Trichloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 1,1,2-Trichloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 1,1-Dichloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 1,1-Dichloroethene | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 1,1-Dichloropropene | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 1,2,3-Trichloropropane | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 1,2-Dichloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 1,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 1,3-Dichloropropane | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 2,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 2-Butanone | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 2-Chlorotoluene | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 2-Hexanone | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 4-Chlorotoluene | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| 4-Methyl-2-pentanone | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| **Acetone** | **1700** | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Acrolein | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Acrylonitrile | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Benzene | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Bromobenzene | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Bromochloromethane | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Bromodichloromethane | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Bromoform | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Bromomethane | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Carbon tetrachloride | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Chlorobenzene | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Chloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Chloroform | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Chloromethane | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| cis-1,2-Dichloroethene | ND | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-02 P2 Composite**

**Sampled:** 10/01/15 07:20 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P2D1, P2D2, P2D3, P2D4 and P2D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0372 Prepared: 11/04/15 09:27 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Dibromochloromethane | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Dibromomethane | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Ethylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Hexachlorobutadiene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Isopropylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| m,p-Xylene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| m-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Methylene chloride | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Naphthalene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| n-Butylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| n-Propylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| o-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| o-Xylene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| p-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| p-Isopropyltoluene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| sec-Butylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Styrene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| tert-Butylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Tetrachloroethene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Toluene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| trans-1,2-Dichloroethene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| trans-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Trichloroethene | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Trichlorofluoromethane | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| Vinyl chloride | ND | | 1200 | ug/kg | 50 | 11/05/15 03:06 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *110 %* | Conc:*263* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *102 %* | Conc:*244* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *102 %* | Conc:*242* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *103 %* | Conc:*245* | *82-120* | % | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-02RE1 P2 Composite**

**Sampled:** 10/01/15 07:20 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P2D1, P2D2, P2D3, P2D4 and P2D5**

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5K0050 Prepared: 10/28/15 09:22 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 0.50 | mg/kg | 1 | 10/28/15 16:46 | |
| *Surr: 4-Bromofluorobenzene* | *0 %* | Conc:*0.00* | *54-139* | % | | | *S-04* |

Method: EPA 8015B Batch: W5K0345 Prepared: 10/30/15 17:00 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Diesel Range Organics** | **510** | | 9.9 | mg/kg | 1 | 10/31/15 04:46 | HC-02 |
| *Surr: n-Tetracosane* | *35 %* | Conc:*17.6* | *53-134* | % | | | |

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| **Acetone** | **870** | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Acrolein | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Benzene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-02RE1 P2 Composite**

**Sampled:** 10/01/15 07:20 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P2D1, P2D2, P2D3, P2D4 and P2D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromobenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Bromoform | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Bromomethane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Chloroethane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Chloroform | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Chloromethane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Methylene chloride | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Naphthalene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| o-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Styrene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Toluene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | 1 | 11/06/15 14:45 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-02RE1 P2 Composite**

**Sampled:** 10/01/15 07:20 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P2D1, P2D2, P2D3, P2D4 and P2D5**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| *Surr: 1,2-Dichloroethane-d4* | *127 %* | Conc:*303* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *94 %* | Conc:*224* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *113 %* | Conc:*269* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *102 %* | Conc:*243* | *82-120* | % | | | |



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**Date Received:** 10/02/15 15:50
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**5J02046-03 P3R1+2**

**Sampled:** 10/01/15 12:37 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P3R1 and P3R2**

## Anions in solids by EPA 9056/300.0

Method: EPA 9056A Batch: W5J0909 Prepared: 10/17/15 11:00 Analyst: atl

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromide, Water Leachable | ND | 15 | mg/kg | 1 | 10/17/15 22:25 | |
| **Chloride, Water Leachable** | **86** | 15 | mg/kg | 1 | 10/17/15 22:25 | |
| **Fluoride, Water Leachable** | **44** | 3.0 | mg/kg | 1 | 10/17/15 22:25 | |
| Nitrate as NO3, Water Leachable | ND | 15 | mg/kg | 1 | 10/17/15 22:25 | |
| **Sulfate as S, Water Leachable** | **260** | 15 | mg/kg | 1 | 10/17/15 22:25 | |

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5J1138 Prepared: 10/21/15 14:29 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 250 | mg/kg | 1 | 10/21/15 21:56 | |
| *Surr: 4-Bromofluorobenzene* | *82 %* | Conc:*102* | *54-139* | % | | | |

Method: EPA 8015B Batch: W5J1579 Prepared: 10/29/15 11:24 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Diesel Range Organics** | **1200** | | 100 | mg/kg | 1 | 10/30/15 05:10 | HC-02 |
| *Surr: n-Tetracosane* | *97 %* | Conc:*486* | *53-134* | % | | | |

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6010B Batch: W5J1378 Prepared: 10/26/15 15:00 Analyst: jck

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| **Boron, Total** | **7.4** | 4.0 | mg/kg | 1 | 10/28/15 15:49 | |
| **Calcium, Total** | **690** | 50 | mg/kg | 1 | 10/28/15 15:49 | |
| Iron, Total | ND | 20 | mg/kg | 1 | 10/28/15 15:49 | |
| Lithium, Total | ND | 5.0 | mg/kg | 1 | 10/28/15 15:49 | |
| **Magnesium, Total** | **760** | 200 | mg/kg | 1 | 10/28/15 15:49 | |
| **Manganese, Total** | **9.7** | 4.0 | mg/kg | 1 | 10/28/15 15:49 | |
| **Potassium, Total** | **7600** | 200 | mg/kg | 1 | 10/28/15 15:49 | |
| Sodium, Total | ND | 400 | mg/kg | 1 | 10/28/15 15:49 | |

Method: EPA 6020A Batch: W5J1379 Prepared: 10/26/15 15:02 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Antimony, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 22:00 | |
| Arsenic, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 22:00 | |
| **Barium, Total** | **2.4** | 2.0 | mg/kg | 1 | 10/28/15 22:00 | |
| Beryllium, Total | ND | 1.2 | mg/kg | 1 | 10/28/15 22:00 | |
| Cadmium, Total | ND | 0.80 | mg/kg | 1 | 10/28/15 22:00 | |
| Chromium, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 22:00 | |
| Cobalt, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 22:00 | |
| **Copper, Total** | **18** | 2.0 | mg/kg | 1 | 10/28/15 22:00 | |



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Bakersfield, CA 93301 CA, 93301

**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-03 P3R1+2**

**Sampled:** 10/01/15 12:37 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P3R1 and P3R2**

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6020A Batch: W5J1379 Prepared: 10/26/15 15:02 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Molybdenum, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 22:00 | |
| Selenium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 22:00 | |
| Silver, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 22:00 | |
| **Strontium, Total** | **11** | 2.0 | mg/kg | 1 | 10/28/15 22:00 | |
| Thallium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 22:00 | |
| Uranium, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 22:00 | |
| **Zinc, Total** | **36** | 20 | mg/kg | 1 | 10/28/15 22:00 | |

Method: EPA 6020B Batch: W5J1379 Prepared: 10/26/15 15:02 Analyst: svm

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Lead, Total | ND | 2.0 | mg/kg | 1 | 10/28/15 22:00 | |
| Nickel, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 22:00 | |
| Vanadium, Total | ND | 4.0 | mg/kg | 1 | 10/28/15 22:00 | |

## Semivolatile Organics - Low Level by GC/MS SIM Mode

Method: EPA 8270C SIM Batch: W5J0874 Prepared: 10/16/15 11:34 Analyst: mxw

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| 2-Methylnaphthalene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| Acenaphthene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| Acenaphthylene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| Anthracene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| Benzo (a) anthracene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| Benzo (a) pyrene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| Benzo (b) fluoranthene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| Benzo (g,h,i) perylene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| Benzo (k) fluoranthene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| Chrysene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| Dibenzo (a,h) anthracene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| Fluoranthene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| Fluorene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| Indeno (1,2,3-cd) pyrene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| Naphthalene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| Phenanthrene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| Pyrene | ND | 70 | ug/kg | 1 | 10/30/15 09:40 | C-3640, M-02 |
| *Surr: 2-Fluorobiphenyl* | *73 %* | Conc:*1720* *0.1-109* | % | | | *C-3640, M-02* |
| *Surr: Nitrobenzene-d5* | *88 %* | Conc:*2060* *0.1-107* | % | | | *C-3640, M-02* |
| *Surr: Terphenyl-d14* | *103 %* | Conc:*2430* *28-128* | % | | | *C-3640, M-02* |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-03 P3R1+2**

**Sampled:** 10/01/15 12:37 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P3R1 and P3R2**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0372 Prepared: 11/04/15 09:27 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 1,1,1-Trichloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 1,1,2-Trichloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 1,1-Dichloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 1,1-Dichloroethene | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 1,1-Dichloropropene | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 1,2,3-Trichloropropane | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 1,2-Dichloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 1,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 1,3-Dichloropropane | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 2,2-Dichloropropane | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 2-Butanone | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 2-Chlorotoluene | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 2-Hexanone | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 4-Chlorotoluene | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| 4-Methyl-2-pentanone | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| **Acetone** | **1300** | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Acrolein | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Acrylonitrile | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Benzene | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Bromobenzene | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Bromochloromethane | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Bromodichloromethane | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Bromoform | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Bromomethane | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Carbon tetrachloride | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Chlorobenzene | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Chloroethane | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Chloroform | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Chloromethane | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| cis-1,2-Dichloroethene | ND | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-03 P3R1+2**

**Sampled:** 10/01/15 12:37 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P3R1 and P3R2**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0372 Prepared: 11/04/15 09:27 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Dibromochloromethane | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Dibromomethane | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Ethylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Hexachlorobutadiene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Isopropylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| m,p-Xylene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| m-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Methylene chloride | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Naphthalene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| n-Butylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| n-Propylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| o-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| o-Xylene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| p-Dichlorobenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| p-Isopropyltoluene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| sec-Butylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Styrene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| tert-Butylbenzene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Tetrachloroethene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Toluene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| trans-1,2-Dichloroethene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| trans-1,3-Dichloropropene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Trichloroethene | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Trichlorofluoromethane | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| Vinyl chloride | ND | | 1200 | ug/kg | 50 | 11/05/15 04:09 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *108 %* | Conc:*258* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *101 %* | Conc:*242* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *102 %* | Conc:*242* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *102 %* | Conc:*244* | *82-120* | % | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-03RE1 P3R1+2**

**Sampled:** 10/01/15 12:37 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P3R1 and P3R2**

## Hydrocarbons by EPA 8015B

Method: EPA 8015B Batch: W5K0050 Prepared: 10/28/15 09:22 Analyst: hmc

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | ND | | 0.50 | mg/kg | 1 | 10/28/15 17:15 | |
| *Surr: 4-Bromofluorobenzene* | *28 %* | Conc:*0.0700* | *54-139* | % | | | *S-04* |

Method: EPA 8015B Batch: W5K0345 Prepared: 10/30/15 17:00 Analyst: rmr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **Diesel Range Organics** | **360** | | 9.7 | mg/kg | 1 | 10/31/15 05:19 | HC-02 |
| *Surr: n-Tetracosane* | *33 %* | Conc:*16.2* | *53-134* | % | | | |

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| **Acetone** | **1100** | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Acrolein | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Benzene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

**5J02046-03RE1 P3R1+2**

**Sampled:** 10/01/15 12:37 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P3R1 and P3R2**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|
| Bromobenzene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Bromoform | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Bromomethane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Chloroethane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Chloroform | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Chloromethane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| **Methylene chloride** | **52** | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Naphthalene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| o-Xylene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Styrene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Toluene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | 1 | 11/06/15 15:17 | M-05 |



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**5J02046-03RE1 P3R1+2**

**Sampled:** 10/01/15 12:37 **Sampled By:** Leo Raab **Matrix:** Solid

**Sample Note: Composite of P3R1 and P3R2**

## Volatile Organic Compounds by EPA Method 8260B

Method: EPA 8260B Batch: W5K0373 Prepared: 11/05/15 10:50 Analyst: rhr

| Analyte | Result | | MRL | Units | Dil | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| *Surr: 1,2-Dichloroethane-d4* | *119 %* | Conc:*283* | *78-140* | % | | | |
| *Surr: 4-Bromofluorobenzene* | *94 %* | Conc:*224* | *85-116* | % | | | |
| *Surr: Dibromofluoromethane* | *110 %* | Conc:*262* | *84-120* | % | | | |
| *Surr: Toluene-d8* | *98 %* | Conc:*233* | *82-120* | % | | | |



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# QUALITY CONTROL SECTION



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Anions in solids by EPA 9056/300.0 - Quality Control

**Batch W5J0909 - EPA 9056A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J0909-BLK1)** | | | | Analyzed: 10/17/15 11:49 | | | | | | |
| Bromide, Water Leachable | ND | 5.0 | mg/kg | | | | | | | |
| Chloride, Water Leachable | ND | 5.0 | mg/kg | | | | | | | |
| Fluoride, Water Leachable | ND | 1.0 | mg/kg | | | | | | | |
| Nitrate as NO3, Water Leachable | ND | 5.0 | mg/kg | | | | | | | |
| Sulfate as S, Water Leachable | ND | 5.0 | mg/kg | | | | | | | |
| **LCS (W5J0909-BS1)** | | | | Analyzed: 10/17/15 12:04 | | | | | | |
| Bromide, Water Leachable | 86.1 | 5.0 | mg/kg | 79.9 | | 108 | 90-110 | | | |
| Chloride, Water Leachable | 43.7 | 5.0 | mg/kg | 39.9 | | 109 | 90-110 | | | |
| Fluoride, Water Leachable | 20.4 | 1.0 | mg/kg | 20.0 | | 102 | 90-110 | | | |
| Nitrate as NO3, Water Leachable | 83.0 | 5.0 | mg/kg | 79.9 | | 104 | 90-110 | | | |
| Sulfate as S, Water Leachable | 81.2 | 5.0 | mg/kg | 79.9 | | 102 | 90-110 | | | |
| **Duplicate (W5J0909-DUP1)** | **Source: 5I25014-01** | | | Analyzed: 10/17/15 14:16 | | | | | | |
| Bromide, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 29.6 | 37 | mg/kg | | 29.8 | | | 0.6 | 20 | |
| Fluoride, Water Leachable | 9.28 | 7.4 | mg/kg | | 9.40 | | | 1 | 20 | |
| Nitrate as NO3, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Sulfate as S, Water Leachable | 378 | 37 | mg/kg | | 438 | | | 15 | 20 | |
| **Duplicate (W5J0909-DUP2)** | **Source: 5I25014-02** | | | Analyzed: 10/17/15 15:12 | | | | | | |
| Bromide, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 77.2 | 37 | mg/kg | | 80.7 | | | 4 | 20 | |
| Fluoride, Water Leachable | 16.0 | 7.5 | mg/kg | | 16.1 | | | 0.5 | 20 | |
| Nitrate as NO3, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Sulfate as S, Water Leachable | 556 | 37 | mg/kg | | 567 | | | 2 | 20 | |
| **Duplicate (W5J0909-DUP3)** | **Source: 5I25014-03** | | | Analyzed: 10/17/15 15:39 | | | | | | |
| Bromide, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 51.6 | 37 | mg/kg | | 57.5 | | | 11 | 20 | |
| Fluoride, Water Leachable | 13.1 | 7.4 | mg/kg | | 13.6 | | | 4 | 20 | |
| Nitrate as NO3, Water Leachable | ND | 37 | mg/kg | | ND | | | NR | 20 | |
| Sulfate as S, Water Leachable | 687 | 37 | mg/kg | | 724 | | | 5 | 20 | |
| **Duplicate (W5J0909-DUP4)** | **Source: 5J02045-01** | | | Analyzed: 10/17/15 16:07 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 51.8 | 15 | mg/kg | | 39.7 | | | 26 | 20 | A-01 |
| Fluoride, Water Leachable | 28.8 | 12 | mg/kg | | 31.8 | | | 10 | 20 | |
| Nitrate as NO3, Water Leachable | 3.30 | 15 | mg/kg | | 5.65 | | | 52 | 20 | A-01 |
| Sulfate as S, Water Leachable | ND | 60 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J0909-DUP5)** | **Source: 5J02045-02** | | | Analyzed: 10/17/15 18:42 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 48.9 | 15 | mg/kg | | 50.0 | | | 2 | 20 | |
| Fluoride, Water Leachable | 35.4 | 12 | mg/kg | | 34.1 | | | 4 | 20 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Anions in solids by EPA 9056/300.0 - Quality Control

**Batch W5J0909 - EPA 9056A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J0909-DUP5)** | | **Source: 5J02045-02** | | Analyzed: 10/17/15 18:42 | | | | | | |
| Nitrate as NO3, Water Leachable | 3.01 | 15 | mg/kg | | 3.55 | | | 16 | 20 | |
| Sulfate as S, Water Leachable | ND | 59 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J0909-DUP6)** | | **Source: 5J02045-03** | | Analyzed: 10/17/15 20:36 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | 4.18 | | | NR | 20 | A-01 |
| Chloride, Water Leachable | 32.5 | 15 | mg/kg | | 40.3 | | | 21 | 20 | A-01 |
| Fluoride, Water Leachable | 29.3 | 12 | mg/kg | | 34.6 | | | 16 | 20 | |
| Nitrate as NO3, Water Leachable | 4.55 | 15 | mg/kg | | 9.27 | | | 68 | 20 | A-01 |
| Sulfate as S, Water Leachable | ND | 59 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J0909-DUP7)** | | **Source: 5J02045-04** | | Analyzed: 10/17/15 21:31 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 42.8 | 15 | mg/kg | | 46.7 | | | 9 | 20 | |
| Fluoride, Water Leachable | 41.6 | 12 | mg/kg | | 41.2 | | | 1 | 20 | |
| Nitrate as NO3, Water Leachable | 2.26 | 15 | mg/kg | | 5.21 | | | 79 | 20 | A-01 |
| Sulfate as S, Water Leachable | ND | 60 | mg/kg | | ND | | | NR | 20 | |
| **Duplicate (W5J0909-DUP8)** | | **Source: 5J02046-01** | | Analyzed: 10/17/15 19:23 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 87.1 | 15 | mg/kg | | 87.2 | | | 0.1 | 20 | |
| Fluoride, Water Leachable | 43.0 | 3.0 | mg/kg | | 48.8 | | | 13 | 20 | |
| Nitrate as NO3, Water Leachable | 5.55 | 15 | mg/kg | | 4.77 | | | 15 | 20 | |
| Sulfate as S, Water Leachable | 346 | 15 | mg/kg | | 394 | | | 13 | 20 | |
| **Duplicate (W5J0909-DUP9)** | | **Source: 5J02046-02** | | Analyzed: 10/17/15 22:12 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 81.7 | 15 | mg/kg | | 82.9 | | | 1 | 20 | |
| Fluoride, Water Leachable | 48.9 | 3.0 | mg/kg | | 44.9 | | | 8 | 20 | |
| Nitrate as NO3, Water Leachable | 7.00 | 15 | mg/kg | | 6.10 | | | 14 | 20 | |
| Sulfate as S, Water Leachable | 294 | 15 | mg/kg | | 286 | | | 3 | 20 | |
| **Duplicate (W5J0909-DUPA)** | | **Source: 5J02046-03** | | Analyzed: 10/17/15 22:39 | | | | | | |
| Bromide, Water Leachable | ND | 15 | mg/kg | | ND | | | NR | 20 | |
| Chloride, Water Leachable | 83.8 | 15 | mg/kg | | 86.1 | | | 3 | 20 | |
| Fluoride, Water Leachable | 42.3 | 3.0 | mg/kg | | 43.6 | | | 3 | 20 | |
| Nitrate as NO3, Water Leachable | 7.38 | 15 | mg/kg | | 3.83 | | | 63 | 20 | A-01 |
| Sulfate as S, Water Leachable | 191 | 15 | mg/kg | | 263 | | | 32 | 20 | R-02 |
| **Matrix Spike (W5J0909-MS1)** | | **Source: 5J08055-02** | | Analyzed: 10/17/15 12:41 | | | | | | |
| Bromide, Water Leachable | 143 | 10 | mg/kg | 160 | ND | 89 | 76-113 | | | |
| Chloride, Water Leachable | 226 | 10 | mg/kg | 79.8 | 139 | 109 | 31-160 | | | |
| Fluoride, Water Leachable | 33.8 | 2.0 | mg/kg | 39.9 | 3.65 | 75 | 0.1-134 | | | |
| Nitrate as NO3, Water Leachable | 138 | 10 | mg/kg | 160 | 1.59 | 86 | 0.1-163 | | | |
| Sulfate as S, Water Leachable | 558 | 10 | mg/kg | 160 | 375 | 115 | 5-159 | | | |
| **Matrix Spike (W5J0909-MS2)** | | **Source: 5I25014-01** | | Analyzed: 10/17/15 14:30 | | | | | | |



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## Anions in solids by EPA 9056/300.0 - Quality Control

**Batch W5J0909 - EPA 9056A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J0909-MS2)** | | **Source: 5I25014-01** | | Analyzed: 10/17/15 14:30 | | | | | | |
| Bromide, Water Leachable | 1170 | 72 | mg/kg | 1160 | ND | 101 | 76-113 | | | |
| Chloride, Water Leachable | 669 | 72 | mg/kg | 580 | 29.8 | 110 | 31-160 | | | |
| Fluoride, Water Leachable | 308 | 14 | mg/kg | 290 | 9.40 | 103 | 0.1-134 | | | |
| Nitrate as NO3, Water Leachable | 1160 | 72 | mg/kg | 1160 | ND | 100 | 0.1-163 | | | |
| Sulfate as S, Water Leachable | 1650 | 72 | mg/kg | 1160 | 438 | 104 | 5-159 | | | |
| **Matrix Spike (W5J0909-MS3)** | | **Source: 5J02045-01** | | Analyzed: 10/17/15 16:21 | | | | | | |
| Bromide, Water Leachable | 440 | 30 | mg/kg | 475 | ND | 93 | 76-113 | | | |
| Chloride, Water Leachable | 259 | 30 | mg/kg | 238 | 39.7 | 92 | 31-160 | | | |
| Fluoride, Water Leachable | 173 | 5.9 | mg/kg | 119 | 31.8 | 119 | 0.1-134 | | | |
| Nitrate as NO3, Water Leachable | 426 | 30 | mg/kg | 475 | 5.65 | 88 | 0.1-163 | | | |
| Sulfate as S, Water Leachable | 133 | 120 | mg/kg | 475 | ND | 28 | 5-159 | | | |
| **Matrix Spike (W5J0909-MS4)** | | **Source: 5J02046-01** | | Analyzed: 10/17/15 19:37 | | | | | | |
| Bromide, Water Leachable | 932 | 59 | mg/kg | 938 | ND | 99 | 76-113 | | | |
| Chloride, Water Leachable | 523 | 59 | mg/kg | 469 | 87.2 | 93 | 31-160 | | | |
| Fluoride, Water Leachable | 267 | 12 | mg/kg | 234 | 48.8 | 93 | 0.1-134 | | | |
| Nitrate as NO3, Water Leachable | 979 | 59 | mg/kg | 938 | 4.77 | 104 | 0.1-163 | | | |
| Sulfate as S, Water Leachable | 1140 | 59 | mg/kg | 938 | 394 | 79 | 5-159 | | | |
| **Matrix Spike Dup (W5J0909-MSD1)** | | **Source: 5J08055-02** | | Analyzed: 10/17/15 12:55 | | | | | | |
| Bromide, Water Leachable | 153 | 10 | mg/kg | 160 | ND | 96 | 76-113 | 7 | 20 | |
| Chloride, Water Leachable | 217 | 10 | mg/kg | 79.8 | 139 | 97 | 31-160 | 4 | 20 | |
| Fluoride, Water Leachable | 41.5 | 2.0 | mg/kg | 39.9 | 3.65 | 95 | 0.1-134 | 21 | 20 | Q-12 |
| Nitrate as NO3, Water Leachable | 148 | 10 | mg/kg | 160 | 1.59 | 92 | 0.1-163 | 7 | 20 | |
| Sulfate as S, Water Leachable | 546 | 10 | mg/kg | 160 | 375 | 107 | 5-159 | 2 | 20 | |
| **Matrix Spike Dup (W5J0909-MSD2)** | | **Source: 5I25014-01** | | Analyzed: 10/17/15 14:45 | | | | | | |
| Bromide, Water Leachable | 1180 | 73 | mg/kg | 1170 | ND | 102 | 76-113 | 0.7 | 20 | |
| Chloride, Water Leachable | 653 | 73 | mg/kg | 583 | 29.8 | 107 | 31-160 | 2 | 20 | |
| Fluoride, Water Leachable | 300 | 15 | mg/kg | 291 | 9.40 | 100 | 0.1-134 | 3 | 20 | |
| Nitrate as NO3, Water Leachable | 1160 | 73 | mg/kg | 1170 | ND | 100 | 0.1-163 | 0.2 | 20 | |
| Sulfate as S, Water Leachable | 1480 | 73 | mg/kg | 1170 | 438 | 89 | 5-159 | 11 | 20 | |
| **Matrix Spike Dup (W5J0909-MSD3)** | | **Source: 5J02045-01** | | Analyzed: 10/17/15 16:36 | | | | | | |
| Bromide, Water Leachable | 444 | 29 | mg/kg | 470 | ND | 95 | 76-113 | 0.9 | 20 | |
| Chloride, Water Leachable | 260 | 29 | mg/kg | 235 | 39.7 | 94 | 31-160 | 0.4 | 20 | |
| Fluoride, Water Leachable | 173 | 5.9 | mg/kg | 117 | 31.8 | 121 | 0.1-134 | 0.04 | 20 | |
| Nitrate as NO3, Water Leachable | 439 | 29 | mg/kg | 470 | 5.65 | 92 | 0.1-163 | 3 | 20 | |
| Sulfate as S, Water Leachable | 131 | 120 | mg/kg | 470 | ND | 28 | 5-159 | 2 | 20 | |
| **Matrix Spike Dup (W5J0909-MSD4)** | | **Source: 5J02046-01** | | Analyzed: 10/17/15 19:52 | | | | | | |
| Bromide, Water Leachable | 910 | 58 | mg/kg | 927 | ND | 98 | 76-113 | 2 | 20 | |
| Chloride, Water Leachable | 544 | 58 | mg/kg | 463 | 87.2 | 99 | 31-160 | 4 | 20 | |
| Fluoride, Water Leachable | 278 | 12 | mg/kg | 232 | 48.8 | 99 | 0.1-134 | 4 | 20 | |

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## Anions in solids by EPA 9056/300.0 - Quality Control

**Batch W5J0909 - EPA 9056A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5J0909-MSD4)** | | **Source: 5J02046-01** | | Analyzed: 10/17/15 19:52 | | | | | | |
| Nitrate as NO3, Water Leachable | 904 | 58 | mg/kg | 927 | 4.77 | 97 | 0.1-163 | 8 | 20 | |
| Sulfate as S, Water Leachable | 1200 | 58 | mg/kg | 927 | 394 | 87 | 5-159 | 6 | 20 | |

## Hydrocarbons by EPA 8015B - Quality Control

**Batch W5J1138 - EPA 8015B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1138-BLK1)** | | | | Analyzed: 10/21/15 19:28 | | | | | | |
| Gasoline Range Organics | ND | 0.50 | mg/kg | | | | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.235* | | *mg/kg* | *0.250* | | *94* | *54-139* | | | |
| **LCS (W5J1138-BS1)** | | | | Analyzed: 10/21/15 18:29 | | | | | | |
| Gasoline Range Organics | 4.64 | 0.50 | mg/kg | 5.00 | | 93 | 76-123 | | | |
| *Surr: 4-Bromofluorobenzene* | *0.195* | | *mg/kg* | *0.250* | | *78* | *54-139* | | | |
| **Matrix Spike (W5J1138-MS1)** | | **Source: 5J02046-03** | | Analyzed: 10/21/15 22:55 | | | | | | |
| Gasoline Range Organics | 2420 | 250 | mg/kg | 2500 | ND | 97 | 3-126 | | | |
| *Surr: 4-Bromofluorobenzene* | *108* | | *mg/kg* | *125* | | *86* | *54-139* | | | |
| **Matrix Spike Dup (W5J1138-MSD1)** | | **Source: 5J02046-03** | | Analyzed: 10/21/15 23:24 | | | | | | |
| Gasoline Range Organics | 2290 | 250 | mg/kg | 2500 | ND | 92 | 3-126 | 5 | 25 | |
| *Surr: 4-Bromofluorobenzene* | *102* | | *mg/kg* | *125* | | *82* | *54-139* | | | |

**Batch W5J1579 - EPA 8015B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1579-BLK1)** | | | | Analyzed: 10/29/15 18:35 | | | | | | |
| Diesel Range Organics | ND | 5.0 | mg/kg | | | | | | | |
| *Surr: n-Tetracosane* | *24.7* | | *mg/kg* | *25.0* | | *99* | *53-134* | | | |
| **LCS (W5J1579-BS1)** | | | | Analyzed: 10/29/15 19:09 | | | | | | |
| Diesel Range Organics | 41.6 | 5.0 | mg/kg | 50.0 | | 83 | 49-125 | | | |
| *Surr: n-Tetracosane* | *24.5* | | *mg/kg* | *25.0* | | *98* | *53-134* | | | |
| **Matrix Spike (W5J1579-MS1)** | | **Source: 5I25014-01** | | Analyzed: 10/30/15 06:49 | | | | | | |
| Diesel Range Organics | 3100 | 100 | mg/kg | 1000 | 2150 | 96 | 42-121 | | | |
| *Surr: n-Tetracosane* | *483* | | *mg/kg* | *500* | | *97* | *53-134* | | | |
| **Matrix Spike (W5J1579-MS2)** | | **Source: 5J02045-01** | | Analyzed: 10/29/15 19:41 | | | | | | |
| Diesel Range Organics | 270 | 50 | mg/kg | 500 | 29.3 | 48 | 42-121 | | | |
| *Surr: n-Tetracosane* | *253* | | *mg/kg* | *250* | | *101* | *53-134* | | | |
| **Matrix Spike (W5J1579-MS3)** | | **Source: 5J02046-01** | | Analyzed: 10/30/15 01:50 | | | | | | |
| Diesel Range Organics | 2600 | 98 | mg/kg | 980 | 3040 | NR | 42-121 | | | |
| *Surr: n-Tetracosane* | *463* | | *mg/kg* | *490* | | *94* | *53-134* | | | |
| **Matrix Spike Dup (W5J1579-MSD1)** | | **Source: 5I25014-01** | | Analyzed: 10/30/15 07:22 | | | | | | |
| Diesel Range Organics | 2710 | 100 | mg/kg | 1000 | 2150 | 56 | 42-121 | 14 | 25 | |
| *Surr: n-Tetracosane* | *499* | | *mg/kg* | *500* | | *100* | *53-134* | | | |



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## Hydrocarbons by EPA 8015B - Quality Control

### Batch W5J1579 - EPA 8015B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5J1579-MSD2)** | | **Source: 5J02045-01** | | Analyzed: 10/29/15 20:15 | | | | | | |
| Diesel Range Organics | 314 | 50 | mg/kg | 500 | 29.3 | 57 | 42-121 | 15 | 25 | |
| *Surr: n-Tetracosane* | *241* | | *mg/kg* | *250* | | *96* | *53-134* | | | |
| **Matrix Spike Dup (W5J1579-MSD3)** | | **Source: 5J02046-01** | | Analyzed: 10/30/15 02:23 | | | | | | |
| Diesel Range Organics | 4100 | 98 | mg/kg | 980 | 3040 | 108 | 42-121 | 45 | 25 | |
| *Surr: n-Tetracosane* | *443* | | *mg/kg* | *490* | | *90* | *53-134* | | | |

### Batch W5K0050 - EPA 8015B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5K0050-BLK1)** | | | | Analyzed: 10/28/15 12:49 | | | | | | |
| Gasoline Range Organics | ND | 0.50 | mg/kg | | | | | | | |
| *Surr: 4-Bromofluorobenzene* | *0.245* | | *mg/kg* | *0.250* | | *98* | *54-139* | | | |
| **LCS (W5K0050-BS1)** | | | | Analyzed: 10/28/15 11:50 | | | | | | |
| Gasoline Range Organics | 4.72 | 0.50 | mg/kg | 5.00 | | 94 | 76-123 | | | |
| *Surr: 4-Bromofluorobenzene* | *0.230* | | *mg/kg* | *0.250* | | *92* | *54-139* | | | |
| **LCS Dup (W5K0050-BSD1)** | | | | Analyzed: 10/28/15 12:20 | | | | | | |
| Gasoline Range Organics | 5.03 | 0.50 | mg/kg | 5.00 | | 101 | 76-123 | 6 | 25 | |
| *Surr: 4-Bromofluorobenzene* | *0.250* | | *mg/kg* | *0.250* | | *100* | *54-139* | | | |

### Batch W5K0345 - EPA 8015B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5K0345-BLK1)** | | | | Analyzed: 10/30/15 23:46 | | | | | | |
| Diesel Range Organics | 22.6 | 5.0 | mg/kg | | | | | | | HC-02 |
| *Surr: n-Tetracosane* | *27.9* | | *mg/kg* | *25.0* | | *112* | *53-134* | | | |

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

### Batch W5J1378 - EPA 6010B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1378-BLK1)** | | | | Analyzed: 10/28/15 15:00 | | | | | | |
| Boron, Total | ND | 1.0 | mg/kg | | | | | | | |
| Calcium, Total | ND | 50 | mg/kg | | | | | | | |
| Iron, Total | ND | 5.0 | mg/kg | | | | | | | |
| Lithium, Total | ND | 5.0 | mg/kg | | | | | | | |
| Magnesium, Total | ND | 50 | mg/kg | | | | | | | |
| Manganese, Total | ND | 1.0 | mg/kg | | | | | | | |
| Potassium, Total | ND | 50 | mg/kg | | | | | | | |
| Sodium, Total | ND | 100 | mg/kg | | | | | | | |
| **LCS (W5J1378-BS1)** | | | | Analyzed: 10/28/15 15:06 | | | | | | |
| Boron, Total | 43.7 | 1.0 | mg/kg | 50.0 | | 87 | 80-120 | | | |
| Calcium, Total | 2240 | 50 | mg/kg | 2550 | | 88 | 80-120 | | | |

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## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

**Batch W5J1378 - EPA 6010B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS (W5J1378-BS1)** | | | | Analyzed: 10/28/15 15:06 | | | | | | |
| Iron, Total | 45.4 | 5.0 | mg/kg | 50.0 | | 91 | 80-120 | | | |
| Lithium, Total | 39.1 | 5.0 | mg/kg | 40.0 | | 98 | 80-120 | | | |
| Magnesium, Total | 2130 | 50 | mg/kg | 2550 | | 83 | 80-120 | | | |
| Manganese, Total | 45.3 | 1.0 | mg/kg | 50.0 | | 91 | 80-120 | | | |
| Potassium, Total | 2410 | 50 | mg/kg | 2550 | | 95 | 80-120 | | | |
| Sodium, Total | 2230 | 100 | mg/kg | 2550 | | 87 | 80-120 | | | |
| **Duplicate (W5J1378-DUP1)** | | **Source: 5J02046-01** | | Analyzed: 10/28/15 15:41 | | | | | | |
| Boron, Total | 5.94 | 4.0 | mg/kg | | 6.37 | | | 7 | 20 | |
| Calcium, Total | 790 | 50 | mg/kg | | 768 | | | 3 | 20 | |
| Iron, Total | 23.4 | 20 | mg/kg | | 20.4 | | | 14 | 20 | |
| Lithium, Total | 0.404 | 5.0 | mg/kg | | ND | | | NR | 20 | R-03 |
| Magnesium, Total | 730 | 200 | mg/kg | | 688 | | | 6 | 20 | |
| Manganese, Total | 10.4 | 4.0 | mg/kg | | 9.31 | | | 11 | 20 | |
| Potassium, Total | 6980 | 200 | mg/kg | | 5940 | | | 16 | 20 | |
| Sodium, Total | ND | 400 | mg/kg | | 25.7 | | | NR | 20 | R-03 |
| **Duplicate (W5J1378-DUP2)** | | **Source: 5J02046-02** | | Analyzed: 10/28/15 15:46 | | | | | | |
| Boron, Total | 7.63 | 4.0 | mg/kg | | 8.16 | | | 7 | 20 | |
| Calcium, Total | 704 | 50 | mg/kg | | 652 | | | 8 | 20 | |
| Iron, Total | 20.4 | 20 | mg/kg | | 19.3 | | | 6 | 20 | |
| Lithium, Total | ND | 5.0 | mg/kg | | ND | | | NR | 20 | |
| Magnesium, Total | 677 | 200 | mg/kg | | 675 | | | 0.3 | 20 | |
| Manganese, Total | 7.03 | 4.0 | mg/kg | | 7.02 | | | 0.2 | 20 | |
| Potassium, Total | 6250 | 200 | mg/kg | | 6590 | | | 5 | 20 | |
| Sodium, Total | 84.6 | 400 | mg/kg | | 94.3 | | | 11 | 20 | |
| **Duplicate (W5J1378-DUP3)** | | **Source: 5J02046-03** | | Analyzed: 10/28/15 15:51 | | | | | | |
| Boron, Total | 7.74 | 4.0 | mg/kg | | 7.37 | | | 5 | 20 | |
| Calcium, Total | 735 | 50 | mg/kg | | 692 | | | 6 | 20 | |
| Iron, Total | 14.5 | 20 | mg/kg | | 14.9 | | | 3 | 20 | |
| Lithium, Total | 0.311 | 5.0 | mg/kg | | ND | | | NR | 20 | R-03 |
| Magnesium, Total | 722 | 200 | mg/kg | | 757 | | | 5 | 20 | |
| Manganese, Total | 8.83 | 4.0 | mg/kg | | 9.74 | | | 10 | 20 | |
| Potassium, Total | 7940 | 200 | mg/kg | | 7630 | | | 4 | 20 | |
| Sodium, Total | ND | 400 | mg/kg | | ND | | | NR | 20 | |
| **Matrix Spike (W5J1378-MS1)** | | **Source: 5J02046-01** | | Analyzed: 10/28/15 15:59 | | | | | | |
| Boron, Total | 178 | 3.6 | mg/kg | 183 | 6.37 | 94 | 75-125 | | | |
| Calcium, Total | 9130 | 50 | mg/kg | 9300 | 768 | 90 | 75-125 | | | |
| Iron, Total | 194 | 18 | mg/kg | 183 | 20.4 | 95 | 75-125 | | | |
| Lithium, Total | 149 | 5.0 | mg/kg | 146 | ND | 102 | 75-125 | | | |
| Magnesium, Total | 8980 | 180 | mg/kg | 9300 | 688 | 89 | 75-125 | | | |



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**Date Reported:** 11/11/15 15:57

## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

### Batch W5J1378 - EPA 6010B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J1378-MS1)** | | **Source: 5J02046-01** | | Analyzed: 10/28/15 15:59 | | | | | | |
| Manganese, Total | 182 | 3.6 | mg/kg | 183 | 9.31 | 95 | 75-125 | | | |
| Potassium, Total | 15300 | 180 | mg/kg | 9300 | 5940 | 101 | 75-125 | | | |
| Sodium, Total | 8420 | 360 | mg/kg | 9300 | 25.7 | 90 | 75-125 | | | |
| **Matrix Spike Dup (W5J1378-MSD1)** | | **Source: 5J02046-01** | | Analyzed: 10/28/15 16:02 | | | | | | |
| Boron, Total | 189 | 4.0 | mg/kg | 198 | 6.37 | 93 | 75-125 | 6 | 20 | |
| Calcium, Total | 9830 | 50 | mg/kg | 10100 | 768 | 90 | 75-125 | 7 | 20 | |
| Iron, Total | 207 | 20 | mg/kg | 198 | 20.4 | 94 | 75-125 | 6 | 20 | |
| Lithium, Total | 161 | 5.0 | mg/kg | 158 | ND | 102 | 75-125 | 8 | 20 | |
| Magnesium, Total | 9640 | 200 | mg/kg | 10100 | 688 | 89 | 75-125 | 7 | 20 | |
| Manganese, Total | 193 | 4.0 | mg/kg | 198 | 9.31 | 93 | 75-125 | 6 | 20 | |
| Potassium, Total | 16100 | 200 | mg/kg | 10100 | 5940 | 100 | 75-125 | 5 | 20 | |
| Sodium, Total | 9130 | 400 | mg/kg | 10100 | 25.7 | 90 | 75-125 | 8 | 20 | |

### Batch W5J1379 - EPA 6020A

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J1379-BLK1)** | | | | Analyzed: 10/28/15 20:21 | | | | | | |
| Antimony, Total | ND | 2.0 | mg/kg | | | | | | | |
| Arsenic, Total | ND | 2.0 | mg/kg | | | | | | | |
| Barium, Total | ND | 2.0 | mg/kg | | | | | | | |
| Beryllium, Total | ND | 1.2 | mg/kg | | | | | | | |
| Cadmium, Total | ND | 0.80 | mg/kg | | | | | | | |
| Chromium, Total | ND | 4.0 | mg/kg | | | | | | | |
| Cobalt, Total | ND | 2.0 | mg/kg | | | | | | | |
| Copper, Total | ND | 2.0 | mg/kg | | | | | | | |
| Lead, Total | ND | 2.0 | mg/kg | | | | | | | |
| Molybdenum, Total | ND | 2.0 | mg/kg | | | | | | | |
| Nickel, Total | ND | 4.0 | mg/kg | | | | | | | |
| Selenium, Total | ND | 2.0 | mg/kg | | | | | | | |
| Silver, Total | ND | 2.0 | mg/kg | | | | | | | |
| Strontium, Total | ND | 2.0 | mg/kg | | | | | | | |
| Thallium, Total | ND | 2.0 | mg/kg | | | | | | | |
| Uranium, Total | ND | 2.0 | mg/kg | | | | | | | |
| Vanadium, Total | ND | 4.0 | mg/kg | | | | | | | |
| Zinc, Total | ND | 20 | mg/kg | | | | | | | |
| **LCS (W5J1379-BS1)** | | | | Analyzed: 10/28/15 20:28 | | | | | | |
| Antimony, Total | 781 | 2.0 | mg/kg | 800 | | 98 | 80-120 | | | |
| Arsenic, Total | 776 | 2.0 | mg/kg | 800 | | 97 | 80-120 | | | |
| Barium, Total | 867 | 2.0 | mg/kg | 800 | | 108 | 80-120 | | | |
| Beryllium, Total | 868 | 1.2 | mg/kg | 800 | | 109 | 80-120 | | | |

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## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

**Batch W5J1379 - EPA 6020A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS (W5J1379-BS1)** | | | | Analyzed: 10/28/15 20:28 | | | | | | |
| Cadmium, Total | 753 | 0.80 | mg/kg | 800 | | 94 | 80-120 | | | |
| Chromium, Total | 828 | 4.0 | mg/kg | 800 | | 103 | 80-120 | | | |
| Cobalt, Total | 827 | 2.0 | mg/kg | 800 | | 103 | 80-120 | | | |
| Copper, Total | 809 | 2.0 | mg/kg | 800 | | 101 | 80-120 | | | |
| Lead, Total | 824 | 2.0 | mg/kg | 800 | | 103 | 80-120 | | | |
| Molybdenum, Total | 790 | 2.0 | mg/kg | 800 | | 99 | 80-120 | | | |
| Nickel, Total | 799 | 4.0 | mg/kg | 800 | | 100 | 80-120 | | | |
| Selenium, Total | 708 | 2.0 | mg/kg | 800 | | 89 | 80-120 | | | |
| Silver, Total | 786 | 2.0 | mg/kg | 800 | | 98 | 80-120 | | | |
| Strontium, Total | 1630 | 2.0 | mg/kg | 1600 | | 102 | 80-120 | | | |
| Thallium, Total | 783 | 2.0 | mg/kg | 800 | | 98 | 80-120 | | | |
| Uranium, Total | 812 | 2.0 | mg/kg | 800 | | 101 | 80-120 | | | |
| Vanadium, Total | 805 | 4.0 | mg/kg | 800 | | 101 | 80-120 | | | |
| Zinc, Total | 750 | 20 | mg/kg | 800 | | 94 | 80-120 | | | |
| **Duplicate (W5J1379-DUP1)** | | **Source: 5J02046-01** | | Analyzed: 10/28/15 21:10 | | | | | | |
| Antimony, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Arsenic, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Barium, Total | 3.15 | 2.0 | mg/kg | | 2.17 | | | 37 | 20 | |
| Beryllium, Total | ND | 1.2 | mg/kg | | ND | | | NR | 20 | |
| Cadmium, Total | ND | 0.80 | mg/kg | | ND | | | NR | 20 | |
| Chromium, Total | 1.08 | 4.0 | mg/kg | | 1.03 | | | 5 | 20 | |
| Cobalt, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Copper, Total | 34.2 | 2.0 | mg/kg | | 29.0 | | | 17 | 20 | |
| Lead, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Molybdenum, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Nickel, Total | 2.15 | 4.0 | mg/kg | | 2.28 | | | 6 | 20 | |
| Selenium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Silver, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Strontium, Total | 11.4 | 2.0 | mg/kg | | 10.4 | | | 9 | 20 | |
| Thallium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Uranium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Vanadium, Total | ND | 4.0 | mg/kg | | ND | | | NR | 20 | |
| Zinc, Total | 67.9 | 20 | mg/kg | | 55.9 | | | 19 | 20 | |
| **Duplicate (W5J1379-DUP2)** | | **Source: 5J02046-02** | | Analyzed: 10/28/15 21:53 | | | | | | |
| Antimony, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Arsenic, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Barium, Total | 2.13 | 2.0 | mg/kg | | 2.15 | | | 0.8 | 20 | |
| Beryllium, Total | ND | 1.2 | mg/kg | | ND | | | NR | 20 | |
| Cadmium, Total | ND | 0.79 | mg/kg | | ND | | | NR | 20 | |

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## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

**Batch W5J1379 - EPA 6020A**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5J1379-DUP2)** | | **Source: 5J02046-02** | | Analyzed: 10/28/15 21:53 | | | | | | |
| Chromium, Total | 0.949 | 4.0 | mg/kg | | 0.996 | | | 5 | 20 | |
| Cobalt, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Copper, Total | 19.9 | 2.0 | mg/kg | | 20.0 | | | 0.4 | 20 | |
| Lead, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Molybdenum, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Nickel, Total | 2.37 | 4.0 | mg/kg | | 2.55 | | | 7 | 20 | |
| Selenium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Silver, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Strontium, Total | 10.9 | 2.0 | mg/kg | | 10.7 | | | 3 | 20 | |
| Thallium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Uranium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Vanadium, Total | ND | 4.0 | mg/kg | | ND | | | NR | 20 | |
| Zinc, Total | 47.1 | 20 | mg/kg | | 49.3 | | | 5 | 20 | |
| **Duplicate (W5J1379-DUP3)** | | **Source: 5J02046-03** | | Analyzed: 10/28/15 22:08 | | | | | | |
| Antimony, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Arsenic, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Barium, Total | 2.77 | 2.0 | mg/kg | | 2.43 | | | 13 | 20 | |
| Beryllium, Total | ND | 1.2 | mg/kg | | ND | | | NR | 20 | |
| Cadmium, Total | ND | 0.79 | mg/kg | | ND | | | NR | 20 | |
| Chromium, Total | 0.949 | 4.0 | mg/kg | | 0.956 | | | 0.8 | 20 | |
| Cobalt, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Copper, Total | 21.3 | 2.0 | mg/kg | | 17.7 | | | 18 | 20 | |
| Lead, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Molybdenum, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Nickel, Total | 4.39 | 4.0 | mg/kg | | 3.82 | | | 14 | 20 | |
| Selenium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Silver, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Strontium, Total | 10.3 | 2.0 | mg/kg | | 11.0 | | | 6 | 20 | |
| Thallium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Uranium, Total | ND | 2.0 | mg/kg | | ND | | | NR | 20 | |
| Vanadium, Total | ND | 4.0 | mg/kg | | ND | | | NR | 20 | |
| Zinc, Total | 32.8 | 20 | mg/kg | | 36.5 | | | 11 | 20 | |
| **Matrix Spike (W5J1379-MS1)** | | **Source: 5J02046-01** | | Analyzed: 10/28/15 20:35 | | | | | | |
| Antimony, Total | 701 | 1.8 | mg/kg | 730 | ND | 96 | 75-125 | | | |
| Arsenic, Total | 726 | 1.8 | mg/kg | 730 | ND | 100 | 75-125 | | | |
| Barium, Total | 777 | 1.8 | mg/kg | 730 | 2.17 | 106 | 75-125 | | | |
| Beryllium, Total | 800 | 1.1 | mg/kg | 730 | ND | 110 | 75-125 | | | |
| Cadmium, Total | 713 | 0.73 | mg/kg | 730 | ND | 98 | 75-125 | | | |
| Chromium, Total | 837 | 3.6 | mg/kg | 730 | 1.03 | 115 | 75-125 | | | |

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## Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

### Batch W5J1379 - EPA 6020A

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J1379-MS1)** | | **Source: 5J02046-01** | | Analyzed: 10/28/15 20:35 | | | | | | |
| Cobalt, Total | 849 | 1.8 | mg/kg | 730 | ND | 116 | 75-125 | | | |
| Copper, Total | 804 | 1.8 | mg/kg | 730 | 29.0 | 106 | 75-125 | | | |
| Lead, Total | 741 | 1.8 | mg/kg | 730 | ND | 102 | 75-125 | | | |
| Molybdenum, Total | 704 | 1.8 | mg/kg | 730 | ND | 97 | 75-125 | | | |
| Nickel, Total | 810 | 3.6 | mg/kg | 730 | 2.28 | 111 | 75-125 | | | |
| Selenium, Total | 680 | 1.8 | mg/kg | 730 | ND | 93 | 75-125 | | | |
| Silver, Total | 716 | 1.8 | mg/kg | 730 | ND | 98 | 75-125 | | | |
| Strontium, Total | 1470 | 1.8 | mg/kg | 1460 | 10.4 | 100 | 75-125 | | | |
| Thallium, Total | 698 | 1.8 | mg/kg | 730 | ND | 96 | 75-125 | | | |
| Uranium, Total | 719 | 1.8 | mg/kg | 730 | ND | 99 | 75-125 | | | |
| Vanadium, Total | 814 | 3.6 | mg/kg | 730 | ND | 112 | 75-125 | | | |
| Zinc, Total | 753 | 18 | mg/kg | 730 | 55.9 | 96 | 75-125 | | | |
| **Matrix Spike Dup (W5J1379-MSD1)** | | **Source: 5J02046-01** | | Analyzed: 10/28/15 20:42 | | | | | | |
| Antimony, Total | 765 | 2.0 | mg/kg | 790 | ND | 97 | 75-125 | 9 | 20 | |
| Arsenic, Total | 790 | 2.0 | mg/kg | 790 | ND | 100 | 75-125 | 8 | 20 | |
| Barium, Total | 844 | 2.0 | mg/kg | 790 | 2.17 | 107 | 75-125 | 8 | 20 | |
| Beryllium, Total | 864 | 1.2 | mg/kg | 790 | ND | 109 | 75-125 | 8 | 20 | |
| Cadmium, Total | 776 | 0.79 | mg/kg | 790 | ND | 98 | 75-125 | 9 | 20 | |
| Chromium, Total | 921 | 4.0 | mg/kg | 790 | 1.03 | 116 | 75-125 | 9 | 20 | |
| Cobalt, Total | 923 | 2.0 | mg/kg | 790 | ND | 117 | 75-125 | 8 | 20 | |
| Copper, Total | 864 | 2.0 | mg/kg | 790 | 29.0 | 106 | 75-125 | 7 | 20 | |
| Lead, Total | 803 | 2.0 | mg/kg | 790 | ND | 102 | 75-125 | 8 | 20 | |
| Molybdenum, Total | 765 | 2.0 | mg/kg | 790 | ND | 97 | 75-125 | 8 | 20 | |
| Nickel, Total | 881 | 4.0 | mg/kg | 790 | 2.28 | 111 | 75-125 | 8 | 20 | |
| Selenium, Total | 736 | 2.0 | mg/kg | 790 | ND | 93 | 75-125 | 8 | 20 | |
| Silver, Total | 768 | 2.0 | mg/kg | 790 | ND | 97 | 75-125 | 7 | 20 | |
| Strontium, Total | 1600 | 2.0 | mg/kg | 1590 | 10.4 | 100 | 75-125 | 9 | 20 | |
| Thallium, Total | 764 | 2.0 | mg/kg | 790 | ND | 97 | 75-125 | 9 | 20 | |
| Uranium, Total | 789 | 2.0 | mg/kg | 790 | ND | 100 | 75-125 | 9 | 20 | |
| Vanadium, Total | 890 | 4.0 | mg/kg | 790 | ND | 113 | 75-125 | 9 | 20 | |
| Zinc, Total | 813 | 20 | mg/kg | 790 | 55.9 | 96 | 75-125 | 8 | 20 | |

## Semivolatile Organics - Low Level by GC/MS SIM Mode - Quality Control

### Batch W5J0874 - EPA 8270C SIM

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J0874-BLK1)** | | | | Analyzed: 10/29/15 23:06 | | | | | | |
| 1-Methylnaphthalene | ND | 5.0 | ug/kg | | | | | | | |



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**Date Reported:** 11/11/15 15:57

## Semivolatile Organics - Low Level by GC/MS SIM Mode - Quality Control

**Batch W5J0874 - EPA 8270C SIM**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5J0874-BLK1)** | | | | Analyzed: 10/29/15 23:06 | | | | | | |
| 2-Methylnaphthalene | ND | 5.0 | ug/kg | | | | | | | |
| Acenaphthene | ND | 5.0 | ug/kg | | | | | | | |
| Acenaphthylene | ND | 5.0 | ug/kg | | | | | | | |
| Anthracene | ND | 5.0 | ug/kg | | | | | | | |
| Benzo (a) anthracene | ND | 5.0 | ug/kg | | | | | | | |
| Benzo (a) pyrene | ND | 5.0 | ug/kg | | | | | | | |
| Benzo (b) fluoranthene | ND | 5.0 | ug/kg | | | | | | | |
| Benzo (g,h,i) perylene | ND | 5.0 | ug/kg | | | | | | | |
| Benzo (k) fluoranthene | ND | 5.0 | ug/kg | | | | | | | |
| Chrysene | ND | 5.0 | ug/kg | | | | | | | |
| Dibenzo (a,h) anthracene | ND | 5.0 | ug/kg | | | | | | | |
| Fluoranthene | ND | 5.0 | ug/kg | | | | | | | |
| Fluorene | ND | 5.0 | ug/kg | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 5.0 | ug/kg | | | | | | | |
| Naphthalene | ND | 5.0 | ug/kg | | | | | | | |
| Phenanthrene | ND | 5.0 | ug/kg | | | | | | | |
| Pyrene | ND | 5.0 | ug/kg | | | | | | | |
| *Surr: 2-Fluorobiphenyl* | *110* | | *ug/kg* | *167* | | *66* | *0.1-109* | | | |
| *Surr: Nitrobenzene-d5* | *130* | | *ug/kg* | *167* | | *78* | *0.1-107* | | | |
| *Surr: Terphenyl-d14* | *101* | | *ug/kg* | *167* | | *61* | *28-128* | | | |
| **Matrix Spike (W5J0874-MS1)** | | **Source: 5J02045-01** | | Analyzed: 10/29/15 23:41 | | | | | | |
| Acenaphthene | 3470 | 71 | ug/kg | 4740 | ND | 73 | 5-115 | | | M-02 |
| Acenaphthylene | 2890 | 71 | ug/kg | 4740 | ND | 61 | 8-111 | | | M-02 |
| Anthracene | 3360 | 71 | ug/kg | 4740 | 19.4 | 70 | 3-132 | | | M-02 |
| Benzo (a) anthracene | 4100 | 71 | ug/kg | 4740 | ND | 87 | 14-125 | | | M-02 |
| Benzo (a) pyrene | 3330 | 71 | ug/kg | 4740 | 33.8 | 70 | 2-138 | | | M-02 |
| Benzo (b) fluoranthene | 3260 | 71 | ug/kg | 4740 | 24.1 | 68 | 20-150 | | | M-02 |
| Benzo (g,h,i) perylene | 3280 | 71 | ug/kg | 4740 | ND | 69 | 9-129 | | | M-02 |
| Benzo (k) fluoranthene | 3220 | 71 | ug/kg | 4740 | 23.5 | 68 | 20-150 | | | M-02 |
| Chrysene | 3410 | 71 | ug/kg | 4740 | ND | 72 | 20-150 | | | M-02 |
| Dibenzo (a,h) anthracene | 3400 | 71 | ug/kg | 4740 | ND | 72 | 10-144 | | | M-02 |
| Fluoranthene | 3790 | 71 | ug/kg | 4740 | 24.4 | 80 | 11-127 | | | M-02 |
| Fluorene | 3830 | 71 | ug/kg | 4740 | ND | 81 | 4-125 | | | M-02 |
| Indeno (1,2,3-cd) pyrene | 3290 | 71 | ug/kg | 4740 | ND | 69 | 3-137 | | | M-02 |
| Naphthalene | 2810 | 71 | ug/kg | 4740 | ND | 59 | 0.1-117 | | | M-02 |
| Phenanthrene | 3510 | 71 | ug/kg | 4740 | ND | 74 | 10-122 | | | M-02 |
| Pyrene | 3850 | 71 | ug/kg | 4740 | 22.8 | 81 | 10-128 | | | M-02 |
| *Surr: 2-Fluorobiphenyl* | *1460* | | *ug/kg* | *2370* | | *62* | *0.1-109* | | | *M-02* |
| *Surr: Nitrobenzene-d5* | *1680* | | *ug/kg* | *2370* | | *71* | *0.1-107* | | | *M-02* |
| *Surr: Terphenyl-d14* | *1650* | | *ug/kg* | *2370* | | *70* | *28-128* | | | *M-02* |

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## Semivolatile Organics - Low Level by GC/MS SIM Mode - Quality Control

**Batch W5J0874 - EPA 8270C SIM**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5J0874-MS2)** | | **Source: 5J02046-01** | | Analyzed: 10/30/15 06:12 | | | | | | |
| Acenaphthene | 4620 | 69 | ug/kg | 4590 | ND | 101 | 5-115 | | | C-3640, M-02 |
| Acenaphthylene | 4220 | 69 | ug/kg | 4590 | 22.0 | 92 | 8-111 | | | C-3640, M-02 |
| Anthracene | 4200 | 69 | ug/kg | 4590 | 20.2 | 91 | 3-132 | | | C-3640, M-02 |
| Benzo (a) anthracene | 4800 | 69 | ug/kg | 4590 | 27.8 | 104 | 14-125 | | | C-3640, M-02 |
| Benzo (a) pyrene | 3080 | 69 | ug/kg | 4590 | 33.3 | 66 | 2-138 | | | C-3640, M-02 |
| Benzo (b) fluoranthene | 3350 | 69 | ug/kg | 4590 | 25.8 | 72 | 20-150 | | | C-3640, M-02 |
| Benzo (g,h,i) perylene | 3750 | 69 | ug/kg | 4590 | ND | 82 | 9-129 | | | C-3640, M-02 |
| Benzo (k) fluoranthene | 3110 | 69 | ug/kg | 4590 | 25.0 | 67 | 20-150 | | | C-3640, M-02 |
| Chrysene | 3840 | 69 | ug/kg | 4590 | ND | 84 | 20-150 | | | C-3640, M-02 |
| Dibenzo (a,h) anthracene | 4030 | 69 | ug/kg | 4590 | ND | 88 | 10-144 | | | C-3640, M-02 |
| Fluoranthene | 4770 | 69 | ug/kg | 4590 | 26.8 | 103 | 11-127 | | | C-3640, M-02 |
| Fluorene | 4970 | 69 | ug/kg | 4590 | ND | 108 | 4-125 | | | C-3640, M-02 |
| Indeno (1,2,3-cd) pyrene | 3770 | 69 | ug/kg | 4590 | ND | 82 | 3-137 | | | C-3640, M-02 |
| Naphthalene | 3470 | 69 | ug/kg | 4590 | ND | 76 | 0.1-117 | | | M-02, C-3640 |
| Phenanthrene | 4460 | 69 | ug/kg | 4590 | ND | 97 | 10-122 | | | C-3640, M-02 |
| Pyrene | 5010 | 69 | ug/kg | 4590 | ND | 109 | 10-128 | | | C-3640, M-02 |
| *Surr: 2-Fluorobiphenyl* | *2090* | | *ug/kg* | *2290* | | *91* | *0.1-109* | | | *C-3640, M-02* |
| *Surr: Nitrobenzene-d5* | *2040* | | *ug/kg* | *2290* | | *89* | *0.1-107* | | | *C-3640, M-02* |
| *Surr: Terphenyl-d14* | *2300* | | *ug/kg* | *2290* | | *100* | *28-128* | | | *C-3640, M-02* |
| **Matrix Spike Dup (W5J0874-MSD1)** | | **Source: 5J02045-01** | | Analyzed: 10/30/15 00:17 | | | | | | |
| Acenaphthene | 3530 | 72 | ug/kg | 4780 | ND | 74 | 5-115 | 2 | 30 | M-02 |
| Acenaphthylene | 2990 | 72 | ug/kg | 4780 | ND | 62 | 8-111 | 3 | 30 | M-02 |
| Anthracene | 3480 | 72 | ug/kg | 4780 | 19.4 | 72 | 3-132 | 3 | 30 | M-02 |
| Benzo (a) anthracene | 3750 | 72 | ug/kg | 4780 | ND | 78 | 14-125 | 9 | 30 | M-02 |
| Benzo (a) pyrene | 3310 | 72 | ug/kg | 4780 | 33.8 | 68 | 2-138 | 0.7 | 30 | M-02 |
| Benzo (b) fluoranthene | 3340 | 72 | ug/kg | 4780 | 24.1 | 69 | 20-150 | 2 | 30 | M-02 |
| Benzo (g,h,i) perylene | 3430 | 72 | ug/kg | 4780 | ND | 72 | 9-129 | 4 | 30 | M-02 |
| Benzo (k) fluoranthene | 3180 | 72 | ug/kg | 4780 | 23.5 | 66 | 20-150 | 1 | 30 | M-02 |



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## Semivolatile Organics - Low Level by GC/MS SIM Mode - Quality Control

**Batch W5J0874 - EPA 8270C SIM**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5J0874-MSD1)** | | **Source: 5J02045-01** | | Analyzed: 10/30/15 00:17 | | | | | | |
| Chrysene | 3480 | 72 | ug/kg | 4780 | ND | 73 | 20-150 | 2 | 30 | M-02 |
| Dibenzo (a,h) anthracene | 3510 | 72 | ug/kg | 4780 | ND | 73 | 10-144 | 3 | 30 | M-02 |
| Fluoranthene | 3710 | 72 | ug/kg | 4780 | 24.4 | 77 | 11-127 | 2 | 30 | M-02 |
| Fluorene | 3790 | 72 | ug/kg | 4780 | ND | 79 | 4-125 | 1 | 30 | M-02 |
| Indeno (1,2,3-cd) pyrene | 3440 | 72 | ug/kg | 4780 | ND | 72 | 3-137 | 5 | 30 | M-02 |
| Naphthalene | 2780 | 72 | ug/kg | 4780 | ND | 58 | 0.1-117 | 1 | 30 | M-02 |
| Phenanthrene | 3700 | 72 | ug/kg | 4780 | ND | 77 | 10-122 | 5 | 30 | M-02 |
| Pyrene | 3690 | 72 | ug/kg | 4780 | 22.8 | 77 | 10-128 | 4 | 30 | M-02 |
| *Surr: 2-Fluorobiphenyl* | *1470* | | *ug/kg* | *2390* | | *61* | *0.1-109* | | | *M-02* |
| *Surr: Nitrobenzene-d5* | *1720* | | *ug/kg* | *2390* | | *72* | *0.1-107* | | | *M-02* |
| *Surr: Terphenyl-d14* | *1520* | | *ug/kg* | *2390* | | *64* | *28-128* | | | *M-02* |
| **Matrix Spike Dup (W5J0874-MSD2)** | | **Source: 5J02046-01** | | Analyzed: 10/30/15 06:47 | | | | | | |
| Acenaphthene | 4190 | 68 | ug/kg | 4520 | ND | 93 | 5-115 | 10 | 30 | C-3640, M-02 |
| Acenaphthylene | 4470 | 68 | ug/kg | 4520 | 22.0 | 98 | 8-111 | 6 | 30 | C-3640, M-02 |
| Anthracene | 3840 | 68 | ug/kg | 4520 | 20.2 | 84 | 3-132 | 9 | 30 | C-3640, M-02 |
| Benzo (a) anthracene | 4460 | 68 | ug/kg | 4520 | 27.8 | 98 | 14-125 | 7 | 30 | C-3640, M-02 |
| Benzo (a) pyrene | 3190 | 68 | ug/kg | 4520 | 33.3 | 70 | 2-138 | 3 | 30 | C-3640, M-02 |
| Benzo (b) fluoranthene | 3400 | 68 | ug/kg | 4520 | 25.8 | 75 | 20-150 | 2 | 30 | C-3640, M-02 |
| Benzo (g,h,i) perylene | 3640 | 68 | ug/kg | 4520 | ND | 80 | 9-129 | 3 | 30 | C-3640, M-02 |
| Benzo (k) fluoranthene | 3210 | 68 | ug/kg | 4520 | 25.0 | 70 | 20-150 | 3 | 30 | C-3640, M-02 |
| Chrysene | 3690 | 68 | ug/kg | 4520 | ND | 81 | 20-150 | 4 | 30 | C-3640, M-02 |
| Dibenzo (a,h) anthracene | 3860 | 68 | ug/kg | 4520 | ND | 85 | 10-144 | 4 | 30 | C-3640, M-02 |
| Fluoranthene | 4280 | 68 | ug/kg | 4520 | 26.8 | 94 | 11-127 | 11 | 30 | C-3640, M-02 |
| Fluorene | 4880 | 68 | ug/kg | 4520 | ND | 108 | 4-125 | 2 | 30 | C-3640, M-02 |
| Indeno (1,2,3-cd) pyrene | 3620 | 68 | ug/kg | 4520 | ND | 80 | 3-137 | 4 | 30 | C-3640, M-02 |
| Naphthalene | 3150 | 68 | ug/kg | 4520 | ND | 70 | 0.1-117 | 10 | 30 | C-3640, M-02 |
| Phenanthrene | 4000 | 68 | ug/kg | 4520 | ND | 88 | 10-122 | 11 | 30 | C-3640, M-02 |
| Pyrene | 4490 | 68 | ug/kg | 4520 | ND | 99 | 10-128 | 11 | 30 | C-3640, M-02 |
| *Surr: 2-Fluorobiphenyl* | *2100* | | *ug/kg* | *2260* | | *93* | *0.1-109* | | | *C-3640, M-02* |

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## Semivolatile Organics - Low Level by GC/MS SIM Mode - Quality Control

### Batch W5J0874 - EPA 8270C SIM

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5J0874-MSD2)** | | **Source: 5J02046-01** | | Analyzed: 10/30/15 06:47 | | | | | | |
| *Surr: Nitrobenzene-d5* | *2080* | | *ug/kg* | *2260* | | *92* | *0.1-107* | | | *C-3640, M-02* |
| *Surr: Terphenyl-d14* | *1890* | | *ug/kg* | *2260* | | *84* | *28-128* | | | *C-3640, M-02* |

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Batch W5K0372 - EPA 8260B

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5K0372-BLK1)** | | | | Analyzed: 11/04/15 17:32 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 2-Butanone | ND | 5.0 | ug/kg | | | | | | | |
| 2-Chloroethyl vinyl ether | ND | 5.0 | ug/kg | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/kg | | | | | | | |
| 2-Hexanone | ND | 5.0 | ug/kg | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/kg | | | | | | | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/kg | | | | | | | |
| Acetone | ND | 5.0 | ug/kg | | | | | | | |
| Acrolein | ND | 5.0 | ug/kg | | | | | | | |
| Acrylonitrile | ND | 5.0 | ug/kg | | | | | | | |
| Benzene | ND | 5.0 | ug/kg | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/kg | | | | | | | |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0372 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5K0372-BLK1)** | | | | Analyzed: 11/04/15 17:32 | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Bromodichloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Bromoform | ND | 5.0 | ug/kg | | | | | | | |
| Bromomethane | ND | 5.0 | ug/kg | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/kg | | | | | | | |
| Chlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Chloroethane | ND | 5.0 | ug/kg | | | | | | | |
| Chloroform | ND | 5.0 | ug/kg | | | | | | | |
| Chloromethane | ND | 5.0 | ug/kg | | | | | | | |
| cis-1,2-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| Dibromochloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Dibromomethane | ND | 5.0 | ug/kg | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 5.0 | ug/kg | | | | | | | |
| Ethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/kg | | | | | | | |
| Isopropylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| m,p-Xylene | ND | 5.0 | ug/kg | | | | | | | |
| m-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 5.0 | ug/kg | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/kg | | | | | | | |
| Naphthalene | ND | 5.0 | ug/kg | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| n-Propylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| o-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| o-Xylene | ND | 5.0 | ug/kg | | | | | | | |
| p-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| p-Isopropyltoluene | ND | 5.0 | ug/kg | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Styrene | ND | 5.0 | ug/kg | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Tetrachloroethene | ND | 5.0 | ug/kg | | | | | | | |
| Toluene | ND | 5.0 | ug/kg | | | | | | | |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| Trichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/kg | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/kg | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *51.1* | | *ug/kg* | *50.0* | | *102* | *78-140* | | | |



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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0372 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5K0372-BLK1)** | | | | Analyzed: 11/04/15 17:32 | | | | | | |
| *Surr: 4-Bromofluorobenzene* | *48.6* | | *ug/kg* | *50.0* | | *97* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *51.3* | | *ug/kg* | *50.0* | | *103* | *84-120* | | | |
| *Surr: Toluene-d8* | *50.6* | | *ug/kg* | *50.0* | | *101* | *82-120* | | | |
| **LCS (W5K0372-BS1)** | | | | Analyzed: 11/04/15 13:03 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 50.6 | 5.0 | ug/kg | 50.0 | | 101 | 81-120 | | | |
| 1,1,1-Trichloroethane | 48.7 | 5.0 | ug/kg | 50.0 | | 97 | 78-125 | | | |
| 1,1,2,2-Tetrachloroethane | 53.3 | 5.0 | ug/kg | 50.0 | | 107 | 67-115 | | | |
| 1,1,2-Trichloroethane | 49.4 | 5.0 | ug/kg | 50.0 | | 99 | 85-121 | | | |
| 1,1-Dichloroethane | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 84-118 | | | |
| 1,1-Dichloroethene | 41.4 | 5.0 | ug/kg | 50.0 | | 83 | 80-123 | | | |
| 1,1-Dichloropropene | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 79-128 | | | |
| 1,2,3-Trichlorobenzene | 49.1 | 5.0 | ug/kg | 50.0 | | 98 | 36-201 | | | |
| 1,2,3-Trichloropropane | 50.7 | 5.0 | ug/kg | 50.0 | | 101 | 65-115 | | | |
| 1,2,4-Trichlorobenzene | 49.3 | 5.0 | ug/kg | 50.0 | | 99 | 69-143 | | | |
| 1,2,4-Trimethylbenzene | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 70-119 | | | |
| 1,2-Dibromo-3-chloropropane | 59.2 | 5.0 | ug/kg | 50.0 | | 118 | 62-140 | | | |
| 1,2-Dibromoethane (EDB) | 54.8 | 5.0 | ug/kg | 50.0 | | 110 | 86-125 | | | |
| 1,2-Dichloroethane | 48.0 | 5.0 | ug/kg | 50.0 | | 96 | 74-123 | | | |
| 1,2-Dichloropropane | 48.6 | 5.0 | ug/kg | 50.0 | | 97 | 83-122 | | | |
| 1,3,5-Trimethylbenzene | 45.9 | 5.0 | ug/kg | 50.0 | | 92 | 66-122 | | | |
| 1,3-Dichloropropane | 50.8 | 5.0 | ug/kg | 50.0 | | 102 | 85-122 | | | |
| 2,2-Dichloropropane | 50.2 | 5.0 | ug/kg | 50.0 | | 100 | 78-124 | | | |
| 2-Butanone | 52.0 | 5.0 | ug/kg | 50.0 | | 104 | 65-139 | | | |
| 2-Chloroethyl vinyl ether | 46.4 | 5.0 | ug/kg | 50.0 | | 93 | 62-134 | | | |
| 2-Chlorotoluene | 49.0 | 5.0 | ug/kg | 50.0 | | 98 | 65-118 | | | |
| 2-Hexanone | 55.1 | 5.0 | ug/kg | 50.0 | | 110 | 72-138 | | | |
| 4-Chlorotoluene | 48.5 | 5.0 | ug/kg | 50.0 | | 97 | 71-116 | | | |
| 4-Methyl-2-pentanone | 54.0 | 5.0 | ug/kg | 50.0 | | 108 | 70-133 | | | |
| Acetone | 54.5 | 5.0 | ug/kg | 50.0 | | 109 | 57-138 | | | |
| Acrolein | 84.2 | 5.0 | ug/kg | 50.0 | | 168 | 57-139 | | | Q-08 |
| Acrylonitrile | 54.7 | 5.0 | ug/kg | 50.0 | | 109 | 78-124 | | | |
| Benzene | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 83-121 | | | |
| Bromobenzene | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 67-115 | | | |
| Bromochloromethane | 50.7 | 5.0 | ug/kg | 50.0 | | 101 | 82-117 | | | |
| Bromodichloromethane | 52.2 | 5.0 | ug/kg | 50.0 | | 104 | 78-122 | | | |
| Bromoform | 53.9 | 5.0 | ug/kg | 50.0 | | 108 | 83-125 | | | |
| Bromomethane | 47.3 | 5.0 | ug/kg | 50.0 | | 95 | 58-133 | | | |
| Carbon tetrachloride | 50.3 | 5.0 | ug/kg | 50.0 | | 101 | 79-126 | | | |
| Chlorobenzene | 47.8 | 5.0 | ug/kg | 50.0 | | 96 | 84-118 | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0372 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS (W5K0372-BS1)** | | | | Analyzed: 11/04/15 13:03 | | | | | | |
| Chloroethane | 43.5 | 5.0 | ug/kg | 50.0 | | 87 | 58-135 | | | |
| Chloroform | 46.4 | 5.0 | ug/kg | 50.0 | | 93 | 80-123 | | | |
| Chloromethane | 45.4 | 5.0 | ug/kg | 50.0 | | 91 | 58-128 | | | |
| cis-1,2-Dichloroethene | 45.5 | 5.0 | ug/kg | 50.0 | | 91 | 83-120 | | | |
| cis-1,3-Dichloropropene | 54.2 | 5.0 | ug/kg | 50.0 | | 108 | 88-123 | | | |
| Dibromochloromethane | 56.6 | 5.0 | ug/kg | 50.0 | | 113 | 83-124 | | | |
| Dibromomethane | 49.5 | 5.0 | ug/kg | 50.0 | | 99 | 84-123 | | | |
| Dichlorodifluoromethane (Freon 12) | 47.7 | 5.0 | ug/kg | 50.0 | | 95 | 67-126 | | | |
| Ethylbenzene | 46.1 | 5.0 | ug/kg | 50.0 | | 92 | 80-120 | | | |
| Hexachlorobutadiene | 44.8 | 5.0 | ug/kg | 50.0 | | 90 | 70-130 | | | |
| Isopropylbenzene | 44.4 | 5.0 | ug/kg | 50.0 | | 89 | 66-122 | | | |
| m,p-Xylene | 48.2 | 5.0 | ug/kg | 50.0 | | 96 | 78-120 | | | |
| m-Dichlorobenzene | 49.6 | 5.0 | ug/kg | 50.0 | | 99 | 75-119 | | | |
| Methyl tert-butyl ether (MTBE) | 50.3 | 5.0 | ug/kg | 50.0 | | 101 | 83-122 | | | |
| Methylene chloride | 52.3 | 5.0 | ug/kg | 50.0 | | 105 | 76-118 | | | |
| Naphthalene | 51.3 | 5.0 | ug/kg | 50.0 | | 103 | 42-190 | | | |
| n-Butylbenzene | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 68-119 | | | |
| n-Propylbenzene | 44.0 | 5.0 | ug/kg | 50.0 | | 88 | 64-120 | | | |
| o-Dichlorobenzene | 50.0 | 5.0 | ug/kg | 50.0 | | 100 | 77-117 | | | |
| o-Xylene | 45.4 | 5.0 | ug/kg | 50.0 | | 91 | 77-126 | | | |
| p-Dichlorobenzene | 47.9 | 5.0 | ug/kg | 50.0 | | 96 | 76-119 | | | |
| p-Isopropyltoluene | 45.6 | 5.0 | ug/kg | 50.0 | | 91 | 70-123 | | | |
| sec-Butylbenzene | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 67-120 | | | |
| Styrene | 48.9 | 5.0 | ug/kg | 50.0 | | 98 | 84-125 | | | |
| tert-Butylbenzene | 46.2 | 5.0 | ug/kg | 50.0 | | 92 | 70-119 | | | |
| Tetrachloroethene | 44.5 | 5.0 | ug/kg | 50.0 | | 89 | 80-129 | | | |
| Toluene | 45.0 | 5.0 | ug/kg | 50.0 | | 90 | 81-126 | | | |
| trans-1,2-Dichloroethene | 44.2 | 5.0 | ug/kg | 50.0 | | 88 | 82-123 | | | |
| trans-1,3-Dichloropropene | 56.5 | 5.0 | ug/kg | 50.0 | | 113 | 81-131 | | | |
| Trichloroethene | 45.6 | 5.0 | ug/kg | 50.0 | | 91 | 82-118 | | | |
| Trichlorofluoromethane | 44.5 | 5.0 | ug/kg | 50.0 | | 89 | 72-129 | | | |
| Vinyl chloride | 45.1 | 5.0 | ug/kg | 50.0 | | 90 | 63-130 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *51.4* | | *ug/kg* | *50.0* | | *103* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *49.4* | | *ug/kg* | *50.0* | | *99* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *51.3* | | *ug/kg* | *50.0* | | *103* | *84-120* | | | |
| *Surr: Toluene-d8* | *50.1* | | *ug/kg* | *50.0* | | *100* | *82-120* | | | |
| **LCS Dup (W5K0372-BSD1)** | | | | Analyzed: 11/04/15 13:39 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 49.8 | 5.0 | ug/kg | 50.0 | | 100 | 81-120 | 2 | 25 | |
| 1,1,1-Trichloroethane | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 78-125 | 3 | 25 | |

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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0372 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS Dup (W5K0372-BSD1)** | | | | Analyzed: 11/04/15 13:39 | | | | | | |
| 1,1,2,2-Tetrachloroethane | 52.6 | 5.0 | ug/kg | 50.0 | | 105 | 67-115 | 1 | 25 | |
| 1,1,2-Trichloroethane | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 85-121 | 5 | 25 | |
| 1,1-Dichloroethane | 44.9 | 5.0 | ug/kg | 50.0 | | 90 | 84-118 | 4 | 25 | |
| 1,1-Dichloroethene | 39.9 | 5.0 | ug/kg | 50.0 | | 80 | 80-123 | 4 | 25 | |
| 1,1-Dichloropropene | 45.1 | 5.0 | ug/kg | 50.0 | | 90 | 79-128 | 4 | 25 | |
| 1,2,3-Trichlorobenzene | 48.1 | 5.0 | ug/kg | 50.0 | | 96 | 36-201 | 2 | 25 | |
| 1,2,3-Trichloropropane | 49.3 | 5.0 | ug/kg | 50.0 | | 99 | 65-115 | 3 | 25 | |
| 1,2,4-Trichlorobenzene | 47.0 | 5.0 | ug/kg | 50.0 | | 94 | 69-143 | 5 | 25 | |
| 1,2,4-Trimethylbenzene | 45.4 | 5.0 | ug/kg | 50.0 | | 91 | 70-119 | 2 | 25 | |
| 1,2-Dibromo-3-chloropropane | 56.5 | 5.0 | ug/kg | 50.0 | | 113 | 62-140 | 5 | 25 | |
| 1,2-Dibromoethane (EDB) | 51.8 | 5.0 | ug/kg | 50.0 | | 104 | 86-125 | 6 | 25 | |
| 1,2-Dichloroethane | 46.0 | 5.0 | ug/kg | 50.0 | | 92 | 74-123 | 4 | 25 | |
| 1,2-Dichloropropane | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 83-122 | 4 | 25 | |
| 1,3,5-Trimethylbenzene | 44.6 | 5.0 | ug/kg | 50.0 | | 89 | 66-122 | 3 | 25 | |
| 1,3-Dichloropropane | 48.9 | 5.0 | ug/kg | 50.0 | | 98 | 85-122 | 4 | 25 | |
| 2,2-Dichloropropane | 48.7 | 5.0 | ug/kg | 50.0 | | 97 | 78-124 | 3 | 25 | |
| 2-Butanone | 49.3 | 5.0 | ug/kg | 50.0 | | 99 | 65-139 | 5 | 25 | |
| 2-Chloroethyl vinyl ether | 46.3 | 5.0 | ug/kg | 50.0 | | 93 | 62-134 | 0.3 | 25 | |
| 2-Chlorotoluene | 47.6 | 5.0 | ug/kg | 50.0 | | 95 | 65-118 | 3 | 25 | |
| 2-Hexanone | 53.9 | 5.0 | ug/kg | 50.0 | | 108 | 72-138 | 2 | 25 | |
| 4-Chlorotoluene | 47.4 | 5.0 | ug/kg | 50.0 | | 95 | 71-116 | 2 | 25 | |
| 4-Methyl-2-pentanone | 52.0 | 5.0 | ug/kg | 50.0 | | 104 | 70-133 | 4 | 25 | |
| Acetone | 52.5 | 5.0 | ug/kg | 50.0 | | 105 | 57-138 | 4 | 25 | |
| Acrolein | 87.2 | 5.0 | ug/kg | 50.0 | | 174 | 57-139 | 4 | 25 | Q-08 |
| Acrylonitrile | 52.3 | 5.0 | ug/kg | 50.0 | | 105 | 78-124 | 4 | 25 | |
| Benzene | 44.6 | 5.0 | ug/kg | 50.0 | | 89 | 83-121 | 5 | 25 | |
| Bromobenzene | 45.7 | 5.0 | ug/kg | 50.0 | | 91 | 67-115 | 4 | 25 | |
| Bromochloromethane | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 82-117 | 4 | 25 | |
| Bromodichloromethane | 50.0 | 5.0 | ug/kg | 50.0 | | 100 | 78-122 | 4 | 25 | |
| Bromoform | 52.7 | 5.0 | ug/kg | 50.0 | | 105 | 83-125 | 2 | 25 | |
| Bromomethane | 45.5 | 5.0 | ug/kg | 50.0 | | 91 | 58-133 | 4 | 25 | |
| Carbon tetrachloride | 49.1 | 5.0 | ug/kg | 50.0 | | 98 | 79-126 | 3 | 25 | |
| Chlorobenzene | 45.9 | 5.0 | ug/kg | 50.0 | | 92 | 84-118 | 4 | 25 | |
| Chloroethane | 41.2 | 5.0 | ug/kg | 50.0 | | 82 | 58-135 | 5 | 25 | |
| Chloroform | 45.1 | 5.0 | ug/kg | 50.0 | | 90 | 80-123 | 3 | 25 | |
| Chloromethane | 43.6 | 5.0 | ug/kg | 50.0 | | 87 | 58-128 | 4 | 25 | |
| cis-1,2-Dichloroethene | 43.7 | 5.0 | ug/kg | 50.0 | | 87 | 83-120 | 4 | 25 | |
| cis-1,3-Dichloropropene | 52.4 | 5.0 | ug/kg | 50.0 | | 105 | 88-123 | 3 | 25 | |
| Dibromochloromethane | 55.2 | 5.0 | ug/kg | 50.0 | | 110 | 83-124 | 2 | 25 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0372 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS Dup (W5K0372-BSD1)** | | | | Analyzed: 11/04/15 13:39 | | | | | | |
| Dibromomethane | 47.0 | 5.0 | ug/kg | 50.0 | | 94 | 84-123 | 5 | 25 | |
| Dichlorodifluoromethane (Freon 12) | 45.4 | 5.0 | ug/kg | 50.0 | | 91 | 67-126 | 5 | 25 | |
| Ethylbenzene | 44.4 | 5.0 | ug/kg | 50.0 | | 89 | 80-120 | 4 | 25 | |
| Hexachlorobutadiene | 44.5 | 5.0 | ug/kg | 50.0 | | 89 | 70-130 | 0.8 | 25 | |
| Isopropylbenzene | 43.6 | 5.0 | ug/kg | 50.0 | | 87 | 66-122 | 2 | 25 | |
| m,p-Xylene | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 78-120 | 3 | 25 | |
| m-Dichlorobenzene | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 75-119 | 4 | 25 | |
| Methyl tert-butyl ether (MTBE) | 49.4 | 5.0 | ug/kg | 50.0 | | 99 | 83-122 | 2 | 25 | |
| Methylene chloride | 49.9 | 5.0 | ug/kg | 50.0 | | 100 | 76-118 | 5 | 25 | |
| Naphthalene | 49.7 | 5.0 | ug/kg | 50.0 | | 99 | 42-190 | 3 | 25 | |
| n-Butylbenzene | 45.2 | 5.0 | ug/kg | 50.0 | | 90 | 68-119 | 3 | 25 | |
| n-Propylbenzene | 43.0 | 5.0 | ug/kg | 50.0 | | 86 | 64-120 | 2 | 25 | |
| o-Dichlorobenzene | 48.4 | 5.0 | ug/kg | 50.0 | | 97 | 77-117 | 3 | 25 | |
| o-Xylene | 44.1 | 5.0 | ug/kg | 50.0 | | 88 | 77-126 | 3 | 25 | |
| p-Dichlorobenzene | 46.2 | 5.0 | ug/kg | 50.0 | | 92 | 76-119 | 4 | 25 | |
| p-Isopropyltoluene | 44.4 | 5.0 | ug/kg | 50.0 | | 89 | 70-123 | 3 | 25 | |
| sec-Butylbenzene | 46.3 | 5.0 | ug/kg | 50.0 | | 93 | 67-120 | 2 | 25 | |
| Styrene | 47.1 | 5.0 | ug/kg | 50.0 | | 94 | 84-125 | 4 | 25 | |
| tert-Butylbenzene | 45.2 | 5.0 | ug/kg | 50.0 | | 90 | 70-119 | 2 | 25 | |
| Tetrachloroethene | 42.7 | 5.0 | ug/kg | 50.0 | | 85 | 80-129 | 4 | 25 | |
| Toluene | 42.9 | 5.0 | ug/kg | 50.0 | | 86 | 81-126 | 5 | 25 | |
| trans-1,2-Dichloroethene | 42.1 | 5.0 | ug/kg | 50.0 | | 84 | 82-123 | 5 | 25 | |
| trans-1,3-Dichloropropene | 55.1 | 5.0 | ug/kg | 50.0 | | 110 | 81-131 | 3 | 25 | |
| Trichloroethene | 43.9 | 5.0 | ug/kg | 50.0 | | 88 | 82-118 | 4 | 25 | |
| Trichlorofluoromethane | 42.8 | 5.0 | ug/kg | 50.0 | | 86 | 72-129 | 4 | 25 | |
| Vinyl chloride | 42.8 | 5.0 | ug/kg | 50.0 | | 86 | 63-130 | 5 | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *51.1* | | *ug/kg* | *50.0* | | *102* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *49.6* | | *ug/kg* | *50.0* | | *99* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *50.9* | | *ug/kg* | *50.0* | | *102* | *84-120* | | | |
| *Surr: Toluene-d8* | *49.9* | | *ug/kg* | *50.0* | | *100* | *82-120* | | | |
| **Duplicate (W5K0372-DUP1)** | | **Source: 5J02046-01** | | Analyzed: 11/05/15 02:34 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |

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**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0372 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0372-DUP1)** | **Source: 5J02046-01** | | | Analyzed: 11/05/15 02:34 | | | | | | |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Butanone | 10.9 | 24 | ug/kg | | 567 | | | 192 | 25 | |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acetone | 17.7 | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0372 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0372-DUP1)** | **Source: 5J02046-01** | | | Analyzed: 11/05/15 02:34 | | | | | | |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *264* | | *ug/kg* | *244* | | *108* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *251* | | *ug/kg* | *244* | | *103* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *248* | | *ug/kg* | *244* | | *102* | *84-120* | | | |
| *Surr: Toluene-d8* | *250* | | *ug/kg* | *244* | | *102* | *82-120* | | | |
| **Duplicate (W5K0372-DUP2)** | **Source: 5J02046-02** | | | Analyzed: 11/05/15 03:37 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |

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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0372 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0372-DUP2)** | **Source: 5J02046-02** | | | Analyzed: 11/05/15 03:37 | | | | | | |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Butanone | 7.30 | 24 | ug/kg | | 462 | | | 194 | 25 | |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acetone | 21.6 | 24 | ug/kg | | 1720 | | | 195 | 25 | |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0372 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0372-DUP2)** | | **Source: 5J02046-02** | | Analyzed: 11/05/15 03:37 | | | | | | |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *259* | | *ug/kg* | *240* | | *108* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *242* | | *ug/kg* | *240* | | *101* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *241* | | *ug/kg* | *240* | | *100* | *84-120* | | | |
| *Surr: Toluene-d8* | *247* | | *ug/kg* | *240* | | *103* | *82-120* | | | |
| **Duplicate (W5K0372-DUP3)** | | **Source: 5J02046-03** | | Analyzed: 11/05/15 04:41 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Butanone | 7.68 | 24 | ug/kg | | 372 | | | 192 | 25 | |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0372 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0372-DUP3)** | **Source: 5J02046-03** | | | Analyzed: 11/05/15 04:41 | | | | | | |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acetone | 29.2 | 24 | ug/kg | | 1300 | | | 191 | 25 | |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Methylene chloride | 3.24 | 24 | ug/kg | | 184 | | | 193 | 25 | |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0372 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0372-DUP3)** | **Source: 5J02046-03** | | | Analyzed: 11/05/15 04:41 | | | | | | |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *254* | | *ug/kg* | *239* | | *106* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *244* | | *ug/kg* | *239* | | *102* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *239* | | *ug/kg* | *239* | | *100* | *84-120* | | | |
| *Surr: Toluene-d8* | *244* | | *ug/kg* | *239* | | *102* | *82-120* | | | |
| **Matrix Spike (W5K0372-MS1)** | **Source: 5J02046-01** | | | Analyzed: 11/05/15 05:13 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 223 | 25 | ug/kg | 247 | ND | 90 | 50-150 | | | |
| 1,1,1-Trichloroethane | 262 | 25 | ug/kg | 247 | ND | 106 | 50-150 | | | |
| 1,1,2,2-Tetrachloroethane | 253 | 25 | ug/kg | 247 | ND | 103 | 50-150 | | | |
| 1,1,2-Trichloroethane | 260 | 25 | ug/kg | 247 | ND | 105 | 50-150 | | | |
| 1,1-Dichloroethane | 257 | 25 | ug/kg | 247 | ND | 104 | 50-150 | | | |
| 1,1-Dichloroethene | 247 | 25 | ug/kg | 247 | ND | 100 | 38-139 | | | |
| 1,1-Dichloropropene | 277 | 25 | ug/kg | 247 | ND | 112 | 50-150 | | | |
| 1,2,3-Trichlorobenzene | 230 | 25 | ug/kg | 247 | ND | 93 | 50-150 | | | |
| 1,2,3-Trichloropropane | 254 | 25 | ug/kg | 247 | ND | 103 | 50-150 | | | |
| 1,2,4-Trichlorobenzene | 222 | 25 | ug/kg | 247 | ND | 90 | 50-150 | | | |
| 1,2,4-Trimethylbenzene | 251 | 25 | ug/kg | 247 | ND | 102 | 50-150 | | | |
| 1,2-Dibromo-3-chloropropane | 255 | 25 | ug/kg | 247 | ND | 103 | 50-150 | | | |
| 1,2-Dibromoethane (EDB) | 281 | 25 | ug/kg | 247 | ND | 114 | 50-150 | | | |
| 1,2-Dichloroethane | 260 | 25 | ug/kg | 247 | ND | 105 | 50-150 | | | |
| 1,2-Dichloropropane | 258 | 25 | ug/kg | 247 | ND | 104 | 50-150 | | | |
| 1,3,5-Trimethylbenzene | 254 | 25 | ug/kg | 247 | ND | 103 | 50-150 | | | |
| 1,3-Dichloropropane | 271 | 25 | ug/kg | 247 | ND | 110 | 50-150 | | | |
| 2,2-Dichloropropane | 240 | 25 | ug/kg | 247 | ND | 97 | 50-150 | | | |
| 2-Butanone | 333 | 25 | ug/kg | 247 | 567 | NR | 50-150 | | | MS-05 |
| 2-Chloroethyl vinyl ether | 272 | 25 | ug/kg | 247 | ND | 110 | 50-150 | | | |
| 2-Chlorotoluene | 255 | 25 | ug/kg | 247 | ND | 103 | 50-150 | | | |
| 2-Hexanone | 310 | 25 | ug/kg | 247 | ND | 126 | 50-150 | | | |
| 4-Chlorotoluene | 254 | 25 | ug/kg | 247 | ND | 103 | 50-150 | | | |
| 4-Methyl-2-pentanone | 295 | 25 | ug/kg | 247 | ND | 119 | 50-150 | | | |
| Acetone | 333 | 25 | ug/kg | 247 | ND | 135 | 50-150 | | | |
| Acrolein | 223 | 25 | ug/kg | 247 | ND | 90 | 50-150 | | | |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0372 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0372-MS1)** | **Source: 5J02046-01** | | | Analyzed: 11/05/15 05:13 | | | | | | |
| Acrylonitrile | 311 | 25 | ug/kg | 247 | ND | 126 | 50-150 | | | |
| Benzene | 262 | 25 | ug/kg | 247 | ND | 106 | 30-134 | | | |
| Bromobenzene | 236 | 25 | ug/kg | 247 | ND | 96 | 50-150 | | | |
| Bromochloromethane | 263 | 25 | ug/kg | 247 | ND | 107 | 50-150 | | | |
| Bromodichloromethane | 256 | 25 | ug/kg | 247 | ND | 104 | 50-150 | | | |
| Bromoform | 223 | 25 | ug/kg | 247 | ND | 90 | 50-150 | | | |
| Bromomethane | 43.8 | 25 | ug/kg | 247 | ND | 18 | 50-150 | | | MS-05 |
| Carbon tetrachloride | 256 | 25 | ug/kg | 247 | ND | 104 | 50-150 | | | |
| Chlorobenzene | 258 | 25 | ug/kg | 247 | ND | 104 | 3-135 | | | |
| Chloroethane | 228 | 25 | ug/kg | 247 | ND | 92 | 50-150 | | | |
| Chloroform | 254 | 25 | ug/kg | 247 | ND | 103 | 50-150 | | | |
| Chloromethane | 256 | 25 | ug/kg | 247 | ND | 104 | 50-150 | | | |
| cis-1,2-Dichloroethene | 248 | 25 | ug/kg | 247 | ND | 101 | 50-150 | | | |
| cis-1,3-Dichloropropene | 247 | 25 | ug/kg | 247 | ND | 100 | 50-150 | | | |
| Dibromochloromethane | 261 | 25 | ug/kg | 247 | ND | 106 | 50-150 | | | |
| Dibromomethane | 262 | 25 | ug/kg | 247 | ND | 106 | 50-150 | | | |
| Dichlorodifluoromethane (Freon 12) | 295 | 25 | ug/kg | 247 | ND | 120 | 50-150 | | | |
| Ethylbenzene | 263 | 25 | ug/kg | 247 | ND | 107 | 50-150 | | | |
| Hexachlorobutadiene | 224 | 25 | ug/kg | 247 | ND | 91 | 50-150 | | | |
| Isopropylbenzene | 252 | 25 | ug/kg | 247 | ND | 102 | 50-150 | | | |
| m,p-Xylene | 280 | 25 | ug/kg | 247 | ND | 113 | 50-150 | | | |
| m-Dichlorobenzene | 248 | 25 | ug/kg | 247 | ND | 100 | 50-150 | | | |
| Methyl tert-butyl ether (MTBE) | 268 | 25 | ug/kg | 247 | ND | 109 | 50-150 | | | |
| Methylene chloride | 288 | 25 | ug/kg | 247 | ND | 117 | 50-150 | | | |
| Naphthalene | 253 | 25 | ug/kg | 247 | ND | 102 | 50-150 | | | |
| n-Butylbenzene | 257 | 25 | ug/kg | 247 | ND | 104 | 50-150 | | | |
| n-Propylbenzene | 248 | 25 | ug/kg | 247 | ND | 100 | 50-150 | | | |
| o-Dichlorobenzene | 250 | 25 | ug/kg | 247 | ND | 101 | 50-150 | | | |
| o-Xylene | 259 | 25 | ug/kg | 247 | ND | 105 | 50-150 | | | |
| p-Dichlorobenzene | 241 | 25 | ug/kg | 247 | ND | 98 | 50-150 | | | |
| p-Isopropyltoluene | 257 | 25 | ug/kg | 247 | ND | 104 | 50-150 | | | |
| sec-Butylbenzene | 272 | 25 | ug/kg | 247 | ND | 110 | 50-150 | | | |
| Styrene | 268 | 25 | ug/kg | 247 | ND | 109 | 50-150 | | | |
| tert-Butylbenzene | 262 | 25 | ug/kg | 247 | ND | 106 | 50-150 | | | |
| Tetrachloroethene | 266 | 25 | ug/kg | 247 | ND | 108 | 50-150 | | | |
| Toluene | 263 | 25 | ug/kg | 247 | ND | 107 | 11-140 | | | |
| trans-1,2-Dichloroethene | 248 | 25 | ug/kg | 247 | ND | 101 | 50-150 | | | |
| trans-1,3-Dichloropropene | 246 | 25 | ug/kg | 247 | ND | 100 | 50-150 | | | |
| Trichloroethene | 261 | 25 | ug/kg | 247 | ND | 106 | 10-144 | | | |



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Bakersfield, CA 93301 CA, 93301

**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0372 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0372-MS1)** | **Source: 5J02046-01** | | | Analyzed: 11/05/15 05:13 | | | | | | |
| Trichlorofluoromethane | 265 | 25 | ug/kg | 247 | ND | 107 | 50-150 | | | |
| Vinyl chloride | 268 | 25 | ug/kg | 247 | ND | 108 | 50-150 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *270* | | *ug/kg* | *247* | | *109* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *250* | | *ug/kg* | *247* | | *101* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *253* | | *ug/kg* | *247* | | *102* | *84-120* | | | |
| *Surr: Toluene-d8* | *253* | | *ug/kg* | *247* | | *103* | *82-120* | | | |
| **Matrix Spike Dup (W5K0372-MSD1)** | **Source: 5J02046-01** | | | Analyzed: 11/05/15 05:45 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 219 | 24 | ug/kg | 241 | ND | 91 | 50-150 | 2 | 25 | |
| 1,1,1-Trichloroethane | 256 | 24 | ug/kg | 241 | ND | 106 | 50-150 | NR | 25 | |
| 1,1,2,2-Tetrachloroethane | 252 | 24 | ug/kg | 241 | ND | 104 | 50-150 | 0.6 | 25 | |
| 1,1,2-Trichloroethane | 251 | 24 | ug/kg | 241 | ND | 104 | 50-150 | NR | 25 | |
| 1,1-Dichloroethane | 247 | 24 | ug/kg | 241 | ND | 103 | 50-150 | 4 | 25 | |
| 1,1-Dichloroethene | 235 | 24 | ug/kg | 241 | ND | 98 | 38-139 | 5 | 25 | |
| 1,1-Dichloropropene | 264 | 24 | ug/kg | 241 | ND | 109 | 50-150 | NR | 25 | |
| 1,2,3-Trichlorobenzene | 230 | 24 | ug/kg | 241 | ND | 95 | 50-150 | NR | 25 | |
| 1,2,3-Trichloropropane | 249 | 24 | ug/kg | 241 | ND | 103 | 50-150 | NR | 25 | |
| 1,2,4-Trichlorobenzene | 221 | 24 | ug/kg | 241 | ND | 92 | 50-150 | NR | 25 | |
| 1,2,4-Trimethylbenzene | 244 | 24 | ug/kg | 241 | ND | 101 | 50-150 | 3 | 25 | |
| 1,2-Dibromo-3-chloropropane | 254 | 24 | ug/kg | 241 | ND | 105 | 50-150 | NR | 25 | |
| 1,2-Dibromoethane (EDB) | 274 | 24 | ug/kg | 241 | ND | 113 | 50-150 | NR | 25 | |
| 1,2-Dichloroethane | 250 | 24 | ug/kg | 241 | ND | 104 | 50-150 | NR | 25 | |
| 1,2-Dichloropropane | 250 | 24 | ug/kg | 241 | ND | 104 | 50-150 | 3 | 25 | |
| 1,3,5-Trimethylbenzene | 246 | 24 | ug/kg | 241 | ND | 102 | 50-150 | 3 | 25 | |
| 1,3-Dichloropropane | 261 | 24 | ug/kg | 241 | ND | 108 | 50-150 | 4 | 25 | |
| 2,2-Dichloropropane | 238 | 24 | ug/kg | 241 | ND | 99 | 50-150 | 0.9 | 25 | |
| 2-Butanone | 316 | 24 | ug/kg | 241 | 567 | NR | 50-150 | NR | 25 | MS-05 |
| 2-Chloroethyl vinyl ether | 266 | 24 | ug/kg | 241 | ND | 110 | 50-150 | 2 | 25 | |
| 2-Chlorotoluene | 251 | 24 | ug/kg | 241 | ND | 104 | 50-150 | 1 | 25 | |
| 2-Hexanone | 297 | 24 | ug/kg | 241 | ND | 123 | 50-150 | 4 | 25 | |
| 4-Chlorotoluene | 245 | 24 | ug/kg | 241 | ND | 101 | 50-150 | 4 | 25 | |
| 4-Methyl-2-pentanone | 284 | 24 | ug/kg | 241 | ND | 118 | 50-150 | NR | 25 | |
| Acetone | 313 | 24 | ug/kg | 241 | ND | 130 | 50-150 | NR | 25 | |
| Acrolein | 175 | 24 | ug/kg | 241 | ND | 72 | 50-150 | NR | 25 | |
| Acrylonitrile | 303 | 24 | ug/kg | 241 | ND | 126 | 50-150 | NR | 25 | |
| Benzene | 251 | 24 | ug/kg | 241 | ND | 104 | 30-134 | NR | 25 | |
| Bromobenzene | 231 | 24 | ug/kg | 241 | ND | 96 | 50-150 | 2 | 25 | |
| Bromochloromethane | 253 | 24 | ug/kg | 241 | ND | 105 | 50-150 | 4 | 25 | |
| Bromodichloromethane | 251 | 24 | ug/kg | 241 | ND | 104 | 50-150 | 2 | 25 | |
| Bromoform | 218 | 24 | ug/kg | 241 | ND | 90 | 50-150 | 2 | 25 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0372 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0372-MSD1)** | **Source: 5J02046-01** | | | Analyzed: 11/05/15 05:45 | | | | | | |
| Bromomethane | 40.3 | 24 | ug/kg | 241 | ND | 17 | 50-150 | NR | 25 | MS-05 |
| Carbon tetrachloride | 249 | 24 | ug/kg | 241 | ND | 103 | 50-150 | NR | 25 | |
| Chlorobenzene | 244 | 24 | ug/kg | 241 | ND | 101 | 3-135 | 5 | 25 | |
| Chloroethane | 219 | 24 | ug/kg | 241 | ND | 91 | 50-150 | NR | 25 | |
| Chloroform | 243 | 24 | ug/kg | 241 | ND | 101 | 50-150 | 4 | 25 | |
| Chloromethane | 245 | 24 | ug/kg | 241 | ND | 101 | 50-150 | 4 | 25 | |
| cis-1,2-Dichloroethene | 238 | 24 | ug/kg | 241 | ND | 99 | 50-150 | 4 | 25 | |
| cis-1,3-Dichloropropene | 245 | 24 | ug/kg | 241 | ND | 101 | 50-150 | 0.8 | 25 | |
| Dibromochloromethane | 254 | 24 | ug/kg | 241 | ND | 105 | 50-150 | NR | 25 | |
| Dibromomethane | 252 | 24 | ug/kg | 241 | ND | 104 | 50-150 | NR | 25 | |
| Dichlorodifluoromethane (Freon 12) | 279 | 24 | ug/kg | 241 | ND | 115 | 50-150 | 6 | 25 | |
| Ethylbenzene | 250 | 24 | ug/kg | 241 | ND | 104 | 50-150 | 5 | 25 | |
| Hexachlorobutadiene | 223 | 24 | ug/kg | 241 | ND | 92 | 50-150 | NR | 25 | |
| Isopropylbenzene | 243 | 24 | ug/kg | 241 | ND | 101 | 50-150 | 3 | 25 | |
| m,p-Xylene | 264 | 24 | ug/kg | 241 | ND | 109 | 50-150 | NR | 25 | |
| m-Dichlorobenzene | 242 | 24 | ug/kg | 241 | ND | 100 | 50-150 | 3 | 25 | |
| Methyl tert-butyl ether (MTBE) | 266 | 24 | ug/kg | 241 | ND | 110 | 50-150 | 0.9 | 25 | |
| Methylene chloride | 274 | 24 | ug/kg | 241 | ND | 114 | 50-150 | 5 | 25 | |
| Naphthalene | 260 | 24 | ug/kg | 241 | ND | 108 | 50-150 | NR | 25 | |
| n-Butylbenzene | 249 | 24 | ug/kg | 241 | ND | 103 | 50-150 | 3 | 25 | |
| n-Propylbenzene | 238 | 24 | ug/kg | 241 | ND | 98 | 50-150 | 4 | 25 | |
| o-Dichlorobenzene | 245 | 24 | ug/kg | 241 | ND | 102 | 50-150 | 2 | 25 | |
| o-Xylene | 246 | 24 | ug/kg | 241 | ND | 102 | 50-150 | 5 | 25 | |
| p-Dichlorobenzene | 233 | 24 | ug/kg | 241 | ND | 97 | 50-150 | 3 | 25 | |
| p-Isopropyltoluene | 248 | 24 | ug/kg | 241 | ND | 103 | 50-150 | 4 | 25 | |
| sec-Butylbenzene | 263 | 24 | ug/kg | 241 | ND | 109 | 50-150 | 4 | 25 | |
| Styrene | 255 | 24 | ug/kg | 241 | ND | 106 | 50-150 | 5 | 25 | |
| tert-Butylbenzene | 253 | 24 | ug/kg | 241 | ND | 105 | 50-150 | 4 | 25 | |
| Tetrachloroethene | 250 | 24 | ug/kg | 241 | ND | 103 | 50-150 | NR | 25 | |
| Toluene | 248 | 24 | ug/kg | 241 | ND | 103 | 11-140 | NR | 25 | |
| trans-1,2-Dichloroethene | 238 | 24 | ug/kg | 241 | ND | 99 | 50-150 | NR | 25 | |
| trans-1,3-Dichloropropene | 243 | 24 | ug/kg | 241 | ND | 101 | 50-150 | NR | 25 | |
| Trichloroethene | 248 | 24 | ug/kg | 241 | ND | 103 | 10-144 | 5 | 25 | |
| Trichlorofluoromethane | 251 | 24 | ug/kg | 241 | ND | 104 | 50-150 | NR | 25 | |
| Vinyl chloride | 252 | 24 | ug/kg | 241 | ND | 104 | 50-150 | 6 | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *261* | | *ug/kg* | *241* | | *108* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *247* | | *ug/kg* | *241* | | *102* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *249* | | *ug/kg* | *241* | | *103* | *84-120* | | | |
| *Surr: Toluene-d8* | *247* | | *ug/kg* | *241* | | *102* | *82-120* | | | |

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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5K0373-BLK1)** | | | | Analyzed: 11/06/15 01:09 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg | | | | | | | |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg | | | | | | | |
| 2-Butanone | ND | 5.0 | ug/kg | | | | | | | |
| 2-Chloroethyl vinyl ether | ND | 5.0 | ug/kg | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/kg | | | | | | | |
| 2-Hexanone | ND | 5.0 | ug/kg | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/kg | | | | | | | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/kg | | | | | | | |
| Acetone | ND | 5.0 | ug/kg | | | | | | | |
| Acrolein | ND | 5.0 | ug/kg | | | | | | | |
| Acrylonitrile | ND | 5.0 | ug/kg | | | | | | | |
| Benzene | ND | 5.0 | ug/kg | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Bromodichloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Bromoform | ND | 5.0 | ug/kg | | | | | | | |
| Bromomethane | ND | 5.0 | ug/kg | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/kg | | | | | | | |
| Chlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Chloroethane | ND | 5.0 | ug/kg | | | | | | | |
| Chloroform | ND | 5.0 | ug/kg | | | | | | | |
| Chloromethane | ND | 5.0 | ug/kg | | | | | | | |
| cis-1,2-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (W5K0373-BLK1)** | | | | Analyzed: 11/06/15 01:09 | | | | | | |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| Dibromochloromethane | ND | 5.0 | ug/kg | | | | | | | |
| Dibromomethane | ND | 5.0 | ug/kg | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 5.0 | ug/kg | | | | | | | |
| Ethylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/kg | | | | | | | |
| Isopropylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| m,p-Xylene | ND | 5.0 | ug/kg | | | | | | | |
| m-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 5.0 | ug/kg | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/kg | | | | | | | |
| Naphthalene | ND | 5.0 | ug/kg | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| n-Propylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| o-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| o-Xylene | ND | 5.0 | ug/kg | | | | | | | |
| p-Dichlorobenzene | ND | 5.0 | ug/kg | | | | | | | |
| p-Isopropyltoluene | ND | 5.0 | ug/kg | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Styrene | ND | 5.0 | ug/kg | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/kg | | | | | | | |
| Tetrachloroethene | ND | 5.0 | ug/kg | | | | | | | |
| Toluene | ND | 5.0 | ug/kg | | | | | | | |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/kg | | | | | | | |
| Trichloroethene | ND | 5.0 | ug/kg | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/kg | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/kg | | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *52.3* | | *ug/kg* | *50.0* | | *105* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *49.4* | | *ug/kg* | *50.0* | | *99* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *51.5* | | *ug/kg* | *50.0* | | *103* | *84-120* | | | |
| *Surr: Toluene-d8* | *50.4* | | *ug/kg* | *50.0* | | *101* | *82-120* | | | |
| **LCS (W5K0373-BS1)** | | | | Analyzed: 11/05/15 21:58 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 50.3 | 5.0 | ug/kg | 50.0 | | 101 | 81-120 | | | |
| 1,1,1-Trichloroethane | 52.9 | 5.0 | ug/kg | 50.0 | | 106 | 78-125 | | | |
| 1,1,2,2-Tetrachloroethane | 49.4 | 5.0 | ug/kg | 50.0 | | 99 | 67-115 | | | |
| 1,1,2-Trichloroethane | 48.0 | 5.0 | ug/kg | 50.0 | | 96 | 85-121 | | | |
| 1,1-Dichloroethane | 48.7 | 5.0 | ug/kg | 50.0 | | 97 | 84-118 | | | |
| 1,1-Dichloroethene | 46.6 | 5.0 | ug/kg | 50.0 | | 93 | 80-123 | | | |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS (W5K0373-BS1)** | | | | Analyzed: 11/05/15 21:58 | | | | | | |
| 1,1-Dichloropropene | 50.9 | 5.0 | ug/kg | 50.0 | | 102 | 79-128 | | | |
| 1,2,3-Trichlorobenzene | 46.2 | 5.0 | ug/kg | 50.0 | | 92 | 36-201 | | | |
| 1,2,3-Trichloropropane | 48.0 | 5.0 | ug/kg | 50.0 | | 96 | 65-115 | | | |
| 1,2,4-Trichlorobenzene | 44.8 | 5.0 | ug/kg | 50.0 | | 90 | 69-143 | | | |
| 1,2,4-Trimethylbenzene | 48.2 | 5.0 | ug/kg | 50.0 | | 96 | 70-119 | | | |
| 1,2-Dibromo-3-chloropropane | 50.7 | 5.0 | ug/kg | 50.0 | | 101 | 62-140 | | | |
| 1,2-Dibromoethane (EDB) | 51.8 | 5.0 | ug/kg | 50.0 | | 104 | 86-125 | | | |
| 1,2-Dichloroethane | 47.9 | 5.0 | ug/kg | 50.0 | | 96 | 74-123 | | | |
| 1,2-Dichloropropane | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 83-122 | | | |
| 1,3,5-Trimethylbenzene | 48.0 | 5.0 | ug/kg | 50.0 | | 96 | 66-122 | | | |
| 1,3-Dichloropropane | 49.6 | 5.0 | ug/kg | 50.0 | | 99 | 85-122 | | | |
| 2,2-Dichloropropane | 51.1 | 5.0 | ug/kg | 50.0 | | 102 | 78-124 | | | |
| 2-Butanone | 50.9 | 5.0 | ug/kg | 50.0 | | 102 | 65-139 | | | |
| 2-Chloroethyl vinyl ether | 22.4 | 5.0 | ug/kg | 50.0 | | 45 | 62-134 | | | Q-ME |
| 2-Chlorotoluene | 49.8 | 5.0 | ug/kg | 50.0 | | 100 | 65-118 | | | |
| 2-Hexanone | 49.9 | 5.0 | ug/kg | 50.0 | | 100 | 72-138 | | | |
| 4-Chlorotoluene | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 71-116 | | | |
| 4-Methyl-2-pentanone | 48.7 | 5.0 | ug/kg | 50.0 | | 97 | 70-133 | | | |
| Acetone | 51.3 | 5.0 | ug/kg | 50.0 | | 103 | 57-138 | | | |
| Acrolein | 34.7 | 5.0 | ug/kg | 50.0 | | 69 | 57-139 | | | |
| Acrylonitrile | 51.2 | 5.0 | ug/kg | 50.0 | | 102 | 78-124 | | | |
| Benzene | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 83-121 | | | |
| Bromobenzene | 46.4 | 5.0 | ug/kg | 50.0 | | 93 | 67-115 | | | |
| Bromochloromethane | 50.1 | 5.0 | ug/kg | 50.0 | | 100 | 82-117 | | | |
| Bromodichloromethane | 52.3 | 5.0 | ug/kg | 50.0 | | 105 | 78-122 | | | |
| Bromoform | 49.6 | 5.0 | ug/kg | 50.0 | | 99 | 83-125 | | | |
| Bromomethane | 47.9 | 5.0 | ug/kg | 50.0 | | 96 | 58-133 | | | |
| Carbon tetrachloride | 55.0 | 5.0 | ug/kg | 50.0 | | 110 | 79-126 | | | |
| Chlorobenzene | 49.1 | 5.0 | ug/kg | 50.0 | | 98 | 84-118 | | | |
| Chloroethane | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 58-135 | | | |
| Chloroform | 48.5 | 5.0 | ug/kg | 50.0 | | 97 | 80-123 | | | |
| Chloromethane | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 58-128 | | | |
| cis-1,2-Dichloroethene | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 83-120 | | | |
| cis-1,3-Dichloropropene | 52.2 | 5.0 | ug/kg | 50.0 | | 104 | 88-123 | | | |
| Dibromochloromethane | 54.7 | 5.0 | ug/kg | 50.0 | | 109 | 83-124 | | | |
| Dibromomethane | 48.2 | 5.0 | ug/kg | 50.0 | | 96 | 84-123 | | | |
| Dichlorodifluoromethane (Freon 12) | 51.3 | 5.0 | ug/kg | 50.0 | | 103 | 67-126 | | | |
| Ethylbenzene | 49.1 | 5.0 | ug/kg | 50.0 | | 98 | 80-120 | | | |
| Hexachlorobutadiene | 47.7 | 5.0 | ug/kg | 50.0 | | 95 | 70-130 | | | |

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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS (W5K0373-BS1)** | | | | Analyzed: 11/05/15 21:58 | | | | | | |
| Isopropylbenzene | 47.5 | 5.0 | ug/kg | 50.0 | | 95 | 66-122 | | | |
| m,p-Xylene | 51.6 | 5.0 | ug/kg | 50.0 | | 103 | 78-120 | | | |
| m-Dichlorobenzene | 48.1 | 5.0 | ug/kg | 50.0 | | 96 | 75-119 | | | |
| Methyl tert-butyl ether (MTBE) | 48.5 | 5.0 | ug/kg | 50.0 | | 97 | 83-122 | | | |
| Methylene chloride | 53.2 | 5.0 | ug/kg | 50.0 | | 106 | 76-118 | | | |
| Naphthalene | 46.3 | 5.0 | ug/kg | 50.0 | | 93 | 42-190 | | | |
| n-Butylbenzene | 48.6 | 5.0 | ug/kg | 50.0 | | 97 | 68-119 | | | |
| n-Propylbenzene | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 64-120 | | | |
| o-Dichlorobenzene | 48.5 | 5.0 | ug/kg | 50.0 | | 97 | 77-117 | | | |
| o-Xylene | 48.3 | 5.0 | ug/kg | 50.0 | | 97 | 77-126 | | | |
| p-Dichlorobenzene | 46.3 | 5.0 | ug/kg | 50.0 | | 93 | 76-119 | | | |
| p-Isopropyltoluene | 48.1 | 5.0 | ug/kg | 50.0 | | 96 | 70-123 | | | |
| sec-Butylbenzene | 50.9 | 5.0 | ug/kg | 50.0 | | 102 | 67-120 | | | |
| Styrene | 49.9 | 5.0 | ug/kg | 50.0 | | 100 | 84-125 | | | |
| tert-Butylbenzene | 49.6 | 5.0 | ug/kg | 50.0 | | 99 | 70-119 | | | |
| Tetrachloroethene | 47.9 | 5.0 | ug/kg | 50.0 | | 96 | 80-129 | | | |
| Toluene | 47.8 | 5.0 | ug/kg | 50.0 | | 96 | 81-126 | | | |
| trans-1,2-Dichloroethene | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 82-123 | | | |
| trans-1,3-Dichloropropene | 52.7 | 5.0 | ug/kg | 50.0 | | 105 | 81-131 | | | |
| Trichloroethene | 48.6 | 5.0 | ug/kg | 50.0 | | 97 | 82-118 | | | |
| Trichlorofluoromethane | 50.3 | 5.0 | ug/kg | 50.0 | | 101 | 72-129 | | | |
| Vinyl chloride | 49.0 | 5.0 | ug/kg | 50.0 | | 98 | 63-130 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *51.0* | | *ug/kg* | *50.0* | | *102* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *51.2* | | *ug/kg* | *50.0* | | *102* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *51.8* | | *ug/kg* | *50.0* | | *104* | *84-120* | | | |
| *Surr: Toluene-d8* | *51.4* | | *ug/kg* | *50.0* | | *103* | *82-120* | | | |
| **LCS Dup (W5K0373-BSD1)** | | | | Analyzed: 11/05/15 22:30 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 47.4 | 5.0 | ug/kg | 50.0 | | 95 | 81-120 | 6 | 25 | |
| 1,1,1-Trichloroethane | 49.6 | 5.0 | ug/kg | 50.0 | | 99 | 78-125 | 6 | 25 | |
| 1,1,2,2-Tetrachloroethane | 46.8 | 5.0 | ug/kg | 50.0 | | 94 | 67-115 | 5 | 25 | |
| 1,1,2-Trichloroethane | 45.2 | 5.0 | ug/kg | 50.0 | | 90 | 85-121 | 6 | 25 | |
| 1,1-Dichloroethane | 45.2 | 5.0 | ug/kg | 50.0 | | 90 | 84-118 | 8 | 25 | |
| 1,1-Dichloroethene | 43.0 | 5.0 | ug/kg | 50.0 | | 86 | 80-123 | 8 | 25 | |
| 1,1-Dichloropropene | 47.3 | 5.0 | ug/kg | 50.0 | | 95 | 79-128 | 7 | 25 | |
| 1,2,3-Trichlorobenzene | 43.0 | 5.0 | ug/kg | 50.0 | | 86 | 36-201 | 7 | 25 | |
| 1,2,3-Trichloropropane | 44.5 | 5.0 | ug/kg | 50.0 | | 89 | 65-115 | 8 | 25 | |
| 1,2,4-Trichlorobenzene | 41.0 | 5.0 | ug/kg | 50.0 | | 82 | 69-143 | 9 | 25 | |
| 1,2,4-Trimethylbenzene | 45.0 | 5.0 | ug/kg | 50.0 | | 90 | 70-119 | 7 | 25 | |
| 1,2-Dibromo-3-chloropropane | 50.1 | 5.0 | ug/kg | 50.0 | | 100 | 62-140 | 1 | 25 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS Dup (W5K0373-BSD1)** | | | | Analyzed: 11/05/15 22:30 | | | | | | |
| 1,2-Dibromoethane (EDB) | 49.4 | 5.0 | ug/kg | 50.0 | | 99 | 86-125 | 5 | 25 | |
| 1,2-Dichloroethane | 44.8 | 5.0 | ug/kg | 50.0 | | 90 | 74-123 | 7 | 25 | |
| 1,2-Dichloropropane | 45.6 | 5.0 | ug/kg | 50.0 | | 91 | 83-122 | 7 | 25 | |
| 1,3,5-Trimethylbenzene | 45.3 | 5.0 | ug/kg | 50.0 | | 91 | 66-122 | 6 | 25 | |
| 1,3-Dichloropropane | 46.8 | 5.0 | ug/kg | 50.0 | | 94 | 85-122 | 6 | 25 | |
| 2,2-Dichloropropane | 48.9 | 5.0 | ug/kg | 50.0 | | 98 | 78-124 | 4 | 25 | |
| 2-Butanone | 47.7 | 5.0 | ug/kg | 50.0 | | 95 | 65-139 | 7 | 25 | |
| 2-Chloroethyl vinyl ether | 22.6 | 5.0 | ug/kg | 50.0 | | 45 | 62-134 | 0.5 | 25 | Q-ME |
| 2-Chlorotoluene | 46.8 | 5.0 | ug/kg | 50.0 | | 94 | 65-118 | 6 | 25 | |
| 2-Hexanone | 48.4 | 5.0 | ug/kg | 50.0 | | 97 | 72-138 | 3 | 25 | |
| 4-Chlorotoluene | 45.7 | 5.0 | ug/kg | 50.0 | | 91 | 71-116 | 7 | 25 | |
| 4-Methyl-2-pentanone | 46.9 | 5.0 | ug/kg | 50.0 | | 94 | 70-133 | 4 | 25 | |
| Acetone | 47.4 | 5.0 | ug/kg | 50.0 | | 95 | 57-138 | 8 | 25 | |
| Acrolein | 41.7 | 5.0 | ug/kg | 50.0 | | 83 | 57-139 | 18 | 25 | |
| Acrylonitrile | 50.8 | 5.0 | ug/kg | 50.0 | | 102 | 78-124 | 0.9 | 25 | |
| Benzene | 45.5 | 5.0 | ug/kg | 50.0 | | 91 | 83-121 | 7 | 25 | |
| Bromobenzene | 43.8 | 5.0 | ug/kg | 50.0 | | 88 | 67-115 | 6 | 25 | |
| Bromochloromethane | 47.6 | 5.0 | ug/kg | 50.0 | | 95 | 82-117 | 5 | 25 | |
| Bromodichloromethane | 48.8 | 5.0 | ug/kg | 50.0 | | 98 | 78-122 | 7 | 25 | |
| Bromoform | 47.4 | 5.0 | ug/kg | 50.0 | | 95 | 83-125 | 5 | 25 | |
| Bromomethane | 45.1 | 5.0 | ug/kg | 50.0 | | 90 | 58-133 | 6 | 25 | |
| Carbon tetrachloride | 51.4 | 5.0 | ug/kg | 50.0 | | 103 | 79-126 | 7 | 25 | |
| Chlorobenzene | 45.9 | 5.0 | ug/kg | 50.0 | | 92 | 84-118 | 7 | 25 | |
| Chloroethane | 43.3 | 5.0 | ug/kg | 50.0 | | 87 | 58-135 | 9 | 25 | |
| Chloroform | 45.0 | 5.0 | ug/kg | 50.0 | | 90 | 80-123 | 7 | 25 | |
| Chloromethane | 43.6 | 5.0 | ug/kg | 50.0 | | 87 | 58-128 | 7 | 25 | |
| cis-1,2-Dichloroethene | 43.9 | 5.0 | ug/kg | 50.0 | | 88 | 83-120 | 7 | 25 | |
| cis-1,3-Dichloropropene | 49.1 | 5.0 | ug/kg | 50.0 | | 98 | 88-123 | 6 | 25 | |
| Dibromochloromethane | 51.2 | 5.0 | ug/kg | 50.0 | | 102 | 83-124 | 7 | 25 | |
| Dibromomethane | 45.7 | 5.0 | ug/kg | 50.0 | | 91 | 84-123 | 5 | 25 | |
| Dichlorodifluoromethane (Freon 12) | 47.7 | 5.0 | ug/kg | 50.0 | | 95 | 67-126 | 7 | 25 | |
| Ethylbenzene | 45.4 | 5.0 | ug/kg | 50.0 | | 91 | 80-120 | 8 | 25 | |
| Hexachlorobutadiene | 44.5 | 5.0 | ug/kg | 50.0 | | 89 | 70-130 | 7 | 25 | |
| Isopropylbenzene | 44.8 | 5.0 | ug/kg | 50.0 | | 90 | 66-122 | 6 | 25 | |
| m,p-Xylene | 47.9 | 5.0 | ug/kg | 50.0 | | 96 | 78-120 | 7 | 25 | |
| m-Dichlorobenzene | 45.2 | 5.0 | ug/kg | 50.0 | | 90 | 75-119 | 6 | 25 | |
| Methyl tert-butyl ether (MTBE) | 46.5 | 5.0 | ug/kg | 50.0 | | 93 | 83-122 | 4 | 25 | |
| Methylene chloride | 49.3 | 5.0 | ug/kg | 50.0 | | 99 | 76-118 | 8 | 25 | |
| Naphthalene | 45.0 | 5.0 | ug/kg | 50.0 | | 90 | 42-190 | 3 | 25 | |

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**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **LCS Dup (W5K0373-BSD1)** | | | | Analyzed: 11/05/15 22:30 | | | | | | |
| n-Butylbenzene | 44.9 | 5.0 | ug/kg | 50.0 | | 90 | 68-119 | 8 | 25 | |
| n-Propylbenzene | 43.7 | 5.0 | ug/kg | 50.0 | | 87 | 64-120 | 7 | 25 | |
| o-Dichlorobenzene | 45.6 | 5.0 | ug/kg | 50.0 | | 91 | 77-117 | 6 | 25 | |
| o-Xylene | 45.1 | 5.0 | ug/kg | 50.0 | | 90 | 77-126 | 7 | 25 | |
| p-Dichlorobenzene | 43.5 | 5.0 | ug/kg | 50.0 | | 87 | 76-119 | 6 | 25 | |
| p-Isopropyltoluene | 44.7 | 5.0 | ug/kg | 50.0 | | 89 | 70-123 | 7 | 25 | |
| sec-Butylbenzene | 48.2 | 5.0 | ug/kg | 50.0 | | 96 | 67-120 | 5 | 25 | |
| Styrene | 46.8 | 5.0 | ug/kg | 50.0 | | 94 | 84-125 | 6 | 25 | |
| tert-Butylbenzene | 47.2 | 5.0 | ug/kg | 50.0 | | 94 | 70-119 | 5 | 25 | |
| Tetrachloroethene | 43.9 | 5.0 | ug/kg | 50.0 | | 88 | 80-129 | 9 | 25 | |
| Toluene | 44.1 | 5.0 | ug/kg | 50.0 | | 88 | 81-126 | 8 | 25 | |
| trans-1,2-Dichloroethene | 43.5 | 5.0 | ug/kg | 50.0 | | 87 | 82-123 | 7 | 25 | |
| trans-1,3-Dichloropropene | 49.6 | 5.0 | ug/kg | 50.0 | | 99 | 81-131 | 6 | 25 | |
| Trichloroethene | 45.2 | 5.0 | ug/kg | 50.0 | | 90 | 82-118 | 7 | 25 | |
| Trichlorofluoromethane | 46.7 | 5.0 | ug/kg | 50.0 | | 93 | 72-129 | 7 | 25 | |
| Vinyl chloride | 45.3 | 5.0 | ug/kg | 50.0 | | 91 | 63-130 | 8 | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *50.8* | | *ug/kg* | *50.0* | | *102* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *50.6* | | *ug/kg* | *50.0* | | *101* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *50.4* | | *ug/kg* | *50.0* | | *101* | *84-120* | | | |
| *Surr: Toluene-d8* | *50.5* | | *ug/kg* | *50.0* | | *101* | *82-120* | | | |
| **Duplicate (W5K0373-DUP1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 15:48 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 15:48 | | | | | | |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 194 | 24 | ug/kg | | 103 | | | 61 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 69.1 | 24 | ug/kg | | 38.3 | | | 57 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP1)** | **Source: 5I25014-01RE1** | | | Analyzed: 11/06/15 15:48 | | | | | | |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *354* | | *ug/kg* | *238* | | *149* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *151* | | *ug/kg* | *238* | | *64* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *292* | | *ug/kg* | *238* | | *123* | *84-120* | | | |
| *Surr: Toluene-d8* | *189* | | *ug/kg* | *238* | | *79* | *82-120* | | | |
| **Duplicate (W5K0373-DUP2)** | **Source: 5I25014-02RE1** | | | Analyzed: 11/06/15 16:20 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP2)** | | **Source: 5I25014-02RE1** | | Analyzed: 11/06/15 16:20 | | | | | | |
| Acetone | 167 | 24 | ug/kg | | 124 | | | 30 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 17.0 | 24 | ug/kg | | 16.4 | | | 3 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP2)** | | **Source: 5I25014-02RE1** | | Analyzed: 11/06/15 16:20 | | | | | | |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *436* | | *ug/kg* | *238* | | *183* | *78-140* | | | *S-04* |
| *Surr: 4-Bromofluorobenzene* | *143* | | *ug/kg* | *238* | | *60* | *85-116* | | | *S-04* |
| *Surr: Dibromofluoromethane* | *329* | | *ug/kg* | *238* | | *138* | *84-120* | | | *S-04* |
| *Surr: Toluene-d8* | *166* | | *ug/kg* | *238* | | *70* | *82-120* | | | *S-04* |
| **Duplicate (W5K0373-DUP3)** | | **Source: 5I25014-03RE1** | | Analyzed: 11/06/15 16:52 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 217 | 25 | ug/kg | | 98.7 | | | 75 | 25 | M-05 |
| Acrolein | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP3)** | | **Source: 5I25014-03RE1** | | Analyzed: 11/06/15 16:52 | | | | | | |
| Bromodichloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 11.6 | 25 | ug/kg | | 11.2 | | | 3 | 25 | M-05 |
| Naphthalene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 25 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *456* | | *ug/kg* | *246* | | *186* | *78-140* | | | *S-04* |
| *Surr: 4-Bromofluorobenzene* | *144* | | *ug/kg* | *246* | | *59* | *85-116* | | | *S-04* |



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**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP3)** | | **Source: 5I25014-03RE1** | | Analyzed: 11/06/15 16:52 | | | | | | |
| *Surr: Dibromofluoromethane* | *344* | | *ug/kg* | *246* | | *140* | *84-120* | | | *S-04* |
| *Surr: Toluene-d8* | *164* | | *ug/kg* | *246* | | *67* | *82-120* | | | *S-04* |
| **Duplicate (W5K0373-DUP4)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 08:37 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 217 | 24 | ug/kg | | 186 | | | 16 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP4)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 08:37 | | | | | | |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 5.67 | 24 | ug/kg | | 6.15 | | | 8 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *260* | | *ug/kg* | *242* | | *107* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *245* | | *ug/kg* | *242* | | *101* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *243* | | *ug/kg* | *242* | | *100* | *84-120* | | | |
| *Surr: Toluene-d8* | *254* | | *ug/kg* | *242* | | *105* | *82-120* | | | |
| **Duplicate (W5K0373-DUP5)** | | **Source: 5J02045-02RE1** | | Analyzed: 11/06/15 09:46 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP5)** | | **Source: 5J02045-02RE1** | | Analyzed: 11/06/15 09:46 | | | | | | |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 184 | 24 | ug/kg | | 211 | | | 14 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP5)** | | **Source: 5J02045-02RE1** | | Analyzed: 11/06/15 09:46 | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *249* | | *ug/kg* | *239* | | *104* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *239* | | *ug/kg* | *239* | | *100* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *232* | | *ug/kg* | *239* | | *97* | *84-120* | | | |
| *Surr: Toluene-d8* | *251* | | *ug/kg* | *239* | | *105* | *82-120* | | | |
| **Duplicate (W5K0373-DUP6)** | | **Source: 5J02045-03RE1** | | Analyzed: 11/06/15 10:54 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP6)** | | **Source: 5J02045-03RE1** | | Analyzed: 11/06/15 10:54 | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 187 | 24 | ug/kg | | 175 | | | 6 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 10/02/15 15:50
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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP6)** | | **Source: 5J02045-03RE1** | | Analyzed: 11/06/15 10:54 | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *259* | | *ug/kg* | *237* | | *109* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *236* | | *ug/kg* | *237* | | *100* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *245* | | *ug/kg* | *237* | | *103* | *84-120* | | | |
| *Surr: Toluene-d8* | *243* | | *ug/kg* | *237* | | *102* | *82-120* | | | |
| **Duplicate (W5K0373-DUP7)** | | **Source: 5J02045-04RE1** | | Analyzed: 11/06/15 12:02 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP7)** | | **Source: 5J02045-04RE1** | | Analyzed: 11/06/15 12:02 | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 251 | 24 | ug/kg | | 259 | | | 3 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 6.00 | 24 | ug/kg | | 8.75 | | | 37 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP7)** | | **Source: 5J02045-04RE1** | | Analyzed: 11/06/15 12:02 | | | | | | |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *251* | | *ug/kg* | *238* | | *105* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *237* | | *ug/kg* | *238* | | *100* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *233* | | *ug/kg* | *238* | | *98* | *84-120* | | | |
| *Surr: Toluene-d8* | *252* | | *ug/kg* | *238* | | *106* | *82-120* | | | |
| **Duplicate (W5K0373-DUP8)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/07/15 00:15 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP8)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/07/15 00:15 | | | | | | |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 581 | 24 | ug/kg | | 947 | | | 48 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 11.0 | 24 | ug/kg | | 16.7 | | | 41 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | 6.20 | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP8)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/07/15 00:15 | | | | | | |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *286* | | *ug/kg* | *244* | | *117* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *239* | | *ug/kg* | *244* | | *98* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *261* | | *ug/kg* | *244* | | *107* | *84-120* | | | |
| *Surr: Toluene-d8* | *250* | | *ug/kg* | *244* | | *103* | *82-120* | | | |
| **Duplicate (W5K0373-DUP9)** | | **Source: 5J02046-02RE1** | | Analyzed: 11/07/15 00:47 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 1070 | 24 | ug/kg | | 869 | | | 21 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP9)** | | **Source: 5J02046-02RE1** | | Analyzed: 11/07/15 00:47 | | | | | | |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 24.5 | 24 | ug/kg | | 18.3 | | | 29 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | 134 | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |



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**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUP9)** | | **Source: 5J02046-02RE1** | | Analyzed: 11/07/15 00:47 | | | | | | |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *287* | | *ug/kg* | *240* | | *119* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *227* | | *ug/kg* | *240* | | *95* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *264* | | *ug/kg* | *240* | | *110* | *84-120* | | | |
| *Surr: Toluene-d8* | *249* | | *ug/kg* | *240* | | *104* | *82-120* | | | |
| **Duplicate (W5K0373-DUPA)** | | **Source: 5J02046-03RE1** | | Analyzed: 11/07/15 01:19 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,1-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2,2-Tetrachloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1,2-Trichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,1-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,3-Trichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2,4-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromo-3-chloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dibromoethane (EDB) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3,5-Trimethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 1,3-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2,2-Dichloropropane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Butanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chloroethyl vinyl ether | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 2-Hexanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Chlorotoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| 4-Methyl-2-pentanone | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acetone | 1510 | 24 | ug/kg | | 1100 | | | 31 | 25 | M-05 |
| Acrolein | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Acrylonitrile | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Benzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromodichloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromoform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Bromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |

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**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Duplicate (W5K0373-DUPA)** | | **Source: 5J02046-03RE1** | | Analyzed: 11/07/15 01:19 | | | | | | |
| Carbon tetrachloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloroform | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Chloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| cis-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromochloromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dibromomethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Dichlorodifluoromethane (Freon 12) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Ethylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Hexachlorobutadiene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Isopropylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m,p-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| m-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methyl tert-butyl ether (MTBE) | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Methylene chloride | 53.6 | 24 | ug/kg | | 51.8 | | | 3 | 25 | M-05 |
| Naphthalene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| n-Propylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| o-Xylene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Dichlorobenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| p-Isopropyltoluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| sec-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Styrene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| tert-Butylbenzene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Tetrachloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Toluene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| trans-1,3-Dichloropropene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichloroethene | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Trichlorofluoromethane | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| Vinyl chloride | ND | 24 | ug/kg | | ND | | | NR | 25 | M-05 |
| *Surr: 1,2-Dichloroethane-d4* | *285* | | *ug/kg* | *239* | | *120* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *221* | | *ug/kg* | *239* | | *93* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *262* | | *ug/kg* | *239* | | *110* | *84-120* | | | |
| *Surr: Toluene-d8* | *236* | | *ug/kg* | *239* | | *99* | *82-120* | | | |
| **Matrix Spike (W5K0373-MS1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 21:05 | | | | | | |



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2001 22nd Street, Suite 100
Bakersfield, CA 93301 CA, 93301

**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS1)** | **Source: 5I25014-01RE1** | | | Analyzed: 11/06/15 21:05 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 28.6 | 5.0 | ug/kg | 50.0 | ND | 57 | 50-150 | | | |
| 1,1,1-Trichloroethane | 36.9 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| 1,1,2,2-Tetrachloroethane | 64.0 | 5.0 | ug/kg | 50.0 | ND | 128 | 50-150 | | | |
| 1,1,2-Trichloroethane | 29.2 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | | | |
| 1,1-Dichloroethane | 40.6 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | | | |
| 1,1-Dichloroethene | 38.9 | 5.0 | ug/kg | 50.0 | ND | 78 | 38-139 | | | |
| 1,1-Dichloropropene | 33.8 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | | | |
| 1,2,3-Trichlorobenzene | 14.8 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | | | MS-05 |
| 1,2,3-Trichloropropane | 70.7 | 5.0 | ug/kg | 50.0 | ND | 141 | 50-150 | | | |
| 1,2,4-Trichlorobenzene | 12.4 | 5.0 | ug/kg | 50.0 | ND | 25 | 50-150 | | | MS-05 |
| 1,2,4-Trimethylbenzene | 30.4 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | | | |
| 1,2-Dibromo-3-chloropropane | 50.3 | 5.0 | ug/kg | 50.0 | ND | 101 | 50-150 | | | |
| 1,2-Dibromoethane (EDB) | 30.5 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | | | |
| 1,2-Dichloroethane | 40.3 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | | | |
| 1,2-Dichloropropane | 33.0 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| 1,3,5-Trimethylbenzene | 32.2 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | | | |
| 1,3-Dichloropropane | 31.1 | 5.0 | ug/kg | 50.0 | ND | 62 | 50-150 | | | |
| 2,2-Dichloropropane | 41.5 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | | | |
| 2-Butanone | 70.4 | 5.0 | ug/kg | 50.0 | ND | 141 | 50-150 | | | |
| 2-Chloroethyl vinyl ether | 15.5 | 5.0 | ug/kg | 50.0 | ND | 31 | 50-150 | | | MS-05 |
| 2-Chlorotoluene | 40.3 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | | | |
| 2-Hexanone | 41.8 | 5.0 | ug/kg | 50.0 | ND | 84 | 50-150 | | | |
| 4-Chlorotoluene | 39.5 | 5.0 | ug/kg | 50.0 | ND | 79 | 50-150 | | | |
| 4-Methyl-2-pentanone | 47.5 | 5.0 | ug/kg | 50.0 | ND | 95 | 50-150 | | | |
| Acetone | 76.6 | 5.0 | ug/kg | 50.0 | 103 | NR | 50-150 | | | MS-05 |
| Acrolein | 10.6 | 5.0 | ug/kg | 50.0 | ND | 21 | 50-150 | | | MS-05 |
| Acrylonitrile | 62.4 | 5.0 | ug/kg | 50.0 | ND | 125 | 50-150 | | | |
| Benzene | 35.0 | 5.0 | ug/kg | 50.0 | ND | 70 | 30-134 | | | |
| Bromobenzene | 47.5 | 5.0 | ug/kg | 50.0 | ND | 95 | 50-150 | | | |
| Bromochloromethane | 43.4 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | | | |
| Bromodichloromethane | 31.9 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | | | |
| Bromoform | 29.3 | 5.0 | ug/kg | 50.0 | ND | 59 | 50-150 | | | |
| Bromomethane | 46.8 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | | | |
| Carbon tetrachloride | 36.2 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | | | |
| Chlorobenzene | 29.2 | 5.0 | ug/kg | 50.0 | ND | 58 | 3-135 | | | |
| Chloroethane | 43.7 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | | | |
| Chloroform | 36.5 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | | | |
| Chloromethane | 50.6 | 5.0 | ug/kg | 50.0 | ND | 101 | 50-150 | | | |
| cis-1,2-Dichloroethene | 38.2 | 5.0 | ug/kg | 50.0 | ND | 76 | 50-150 | | | |



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Bakersfield, CA 93301 CA, 93301

**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 21:05 | | | | | | |
| cis-1,3-Dichloropropene | 32.8 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| Dibromochloromethane | 26.2 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | | | |
| Dibromomethane | 37.2 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| Dichlorodifluoromethane (Freon 12) | 46.2 | 5.0 | ug/kg | 50.0 | ND | 92 | 50-150 | | | |
| Ethylbenzene | 26.7 | 5.0 | ug/kg | 50.0 | ND | 53 | 50-150 | | | |
| Hexachlorobutadiene | 10.1 | 5.0 | ug/kg | 50.0 | ND | 20 | 50-150 | | | MS-05 |
| Isopropylbenzene | 46.6 | 5.0 | ug/kg | 50.0 | ND | 93 | 50-150 | | | |
| m,p-Xylene | 26.1 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | | | |
| m-Dichlorobenzene | 28.4 | 5.0 | ug/kg | 50.0 | ND | 57 | 50-150 | | | |
| Methyl tert-butyl ether (MTBE) | 51.9 | 5.0 | ug/kg | 50.0 | ND | 104 | 50-150 | | | |
| Methylene chloride | 58.5 | 5.0 | ug/kg | 50.0 | 38.3 | 40 | 50-150 | | | MS-05 |
| Naphthalene | 21.8 | 5.0 | ug/kg | 50.0 | ND | 44 | 50-150 | | | MS-05 |
| n-Butylbenzene | 22.5 | 5.0 | ug/kg | 50.0 | ND | 45 | 50-150 | | | MS-05 |
| n-Propylbenzene | 39.8 | 5.0 | ug/kg | 50.0 | ND | 80 | 50-150 | | | |
| o-Dichlorobenzene | 26.3 | 5.0 | ug/kg | 50.0 | ND | 53 | 50-150 | | | |
| o-Xylene | 21.7 | 5.0 | ug/kg | 50.0 | ND | 43 | 50-150 | | | MS-05 |
| p-Dichlorobenzene | 27.1 | 5.0 | ug/kg | 50.0 | ND | 54 | 50-150 | | | |
| p-Isopropyltoluene | 26.0 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | | | |
| sec-Butylbenzene | 32.8 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| Styrene | 22.0 | 5.0 | ug/kg | 50.0 | ND | 44 | 50-150 | | | MS-05 |
| tert-Butylbenzene | 32.7 | 5.0 | ug/kg | 50.0 | ND | 65 | 50-150 | | | |
| Tetrachloroethene | 20.9 | 5.0 | ug/kg | 50.0 | ND | 42 | 50-150 | | | MS-05 |
| Toluene | 24.5 | 5.0 | ug/kg | 50.0 | ND | 49 | 11-140 | | | |
| trans-1,2-Dichloroethene | 38.0 | 5.0 | ug/kg | 50.0 | ND | 76 | 50-150 | | | |
| trans-1,3-Dichloropropene | 31.7 | 5.0 | ug/kg | 50.0 | ND | 63 | 50-150 | | | |
| Trichloroethene | 29.0 | 5.0 | ug/kg | 50.0 | ND | 58 | 10-144 | | | |
| Trichlorofluoromethane | 41.4 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | | | |
| Vinyl chloride | 45.1 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *67.0* | | *ug/kg* | *50.0* | | *134* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *34.2* | | *ug/kg* | *50.0* | | *68* | *85-116* | | | *S-04* |
| *Surr: Dibromofluoromethane* | *58.1* | | *ug/kg* | *50.0* | | *116* | *84-120* | | | |
| *Surr: Toluene-d8* | *41.3* | | *ug/kg* | *50.0* | | *83* | *82-120* | | | |
| **Matrix Spike (W5K0373-MS2)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 17:24 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 33.6 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| 1,1,1-Trichloroethane | 39.7 | 5.0 | ug/kg | 50.0 | ND | 79 | 50-150 | | | |
| 1,1,2,2-Tetrachloroethane | 31.6 | 5.0 | ug/kg | 50.0 | ND | 63 | 50-150 | | | |
| 1,1,2-Trichloroethane | 34.2 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | | | |
| 1,1-Dichloroethane | 37.8 | 5.0 | ug/kg | 50.0 | ND | 76 | 50-150 | | | |
| 1,1-Dichloroethene | 36.1 | 5.0 | ug/kg | 50.0 | ND | 72 | 38-139 | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS2)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 17:24 | | | | | | |
| 1,1-Dichloropropene | 39.0 | 5.0 | ug/kg | 50.0 | ND | 78 | 50-150 | | | |
| 1,2,3-Trichlorobenzene | 24.4 | 5.0 | ug/kg | 50.0 | ND | 49 | 50-150 | | | MS-05 |
| 1,2,3-Trichloropropane | 32.0 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | | | |
| 1,2,4-Trichlorobenzene | 25.6 | 5.0 | ug/kg | 50.0 | ND | 51 | 50-150 | | | |
| 1,2,4-Trimethylbenzene | 33.4 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| 1,2-Dibromo-3-chloropropane | 29.1 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | | | |
| 1,2-Dibromoethane (EDB) | 36.4 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | | | |
| 1,2-Dichloroethane | 36.1 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | | | |
| 1,2-Dichloropropane | 37.6 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | | | |
| 1,3,5-Trimethylbenzene | 33.4 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| 1,3-Dichloropropane | 35.6 | 5.0 | ug/kg | 50.0 | ND | 71 | 50-150 | | | |
| 2,2-Dichloropropane | 41.3 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | | | |
| 2-Butanone | ND | 5.0 | ug/kg | 50.0 | ND | NR | 50-150 | | | MS-05 |
| 2-Chloroethyl vinyl ether | 22.1 | 5.0 | ug/kg | 50.0 | ND | 44 | 50-150 | | | MS-05 |
| 2-Chlorotoluene | 35.2 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| 2-Hexanone | 33.0 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| 4-Chlorotoluene | 34.8 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| 4-Methyl-2-pentanone | 50.5 | 5.0 | ug/kg | 50.0 | ND | 101 | 50-150 | | | |
| Acetone | 37.0 | 5.0 | ug/kg | 50.0 | 186 | NR | 50-150 | | | MS-05 |
| Acrolein | 19.8 | 5.0 | ug/kg | 50.0 | ND | 40 | 50-150 | | | MS-05 |
| Acrylonitrile | 33.8 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | | | |
| Benzene | 38.2 | 5.0 | ug/kg | 50.0 | ND | 76 | 30-134 | | | |
| Bromobenzene | 31.9 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | | | |
| Bromochloromethane | 37.2 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| Bromodichloromethane | 37.4 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | | | |
| Bromoform | 31.3 | 5.0 | ug/kg | 50.0 | ND | 63 | 50-150 | | | |
| Bromomethane | 37.7 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | | | |
| Carbon tetrachloride | 40.4 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | | | |
| Chlorobenzene | 35.6 | 5.0 | ug/kg | 50.0 | ND | 71 | 3-135 | | | |
| Chloroethane | 36.0 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | | | |
| Chloroform | 36.8 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| Chloromethane | 37.4 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | | | |
| cis-1,2-Dichloroethene | 314 | 5.0 | ug/kg | 50.0 | ND | 628 | 50-150 | | | MS-05 |
| cis-1,3-Dichloropropene | 38.6 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | | | |
| Dibromochloromethane | 36.5 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | | | |
| Dibromomethane | 34.9 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| Dichlorodifluoromethane (Freon 12) | 39.9 | 5.0 | ug/kg | 50.0 | ND | 80 | 50-150 | | | |
| Ethylbenzene | 35.0 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| Hexachlorobutadiene | 27.0 | 5.0 | ug/kg | 50.0 | ND | 54 | 50-150 | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS2)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 17:24 | | | | | | |
| Isopropylbenzene | 33.3 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| m,p-Xylene | 36.8 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| m-Dichlorobenzene | 33.3 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| Methyl tert-butyl ether (MTBE) | 33.8 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | | | |
| Methylene chloride | 41.5 | 5.0 | ug/kg | 50.0 | 6.15 | 71 | 50-150 | | | |
| Naphthalene | 23.3 | 5.0 | ug/kg | 50.0 | ND | 47 | 50-150 | | | MS-05 |
| n-Butylbenzene | 33.0 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| n-Propylbenzene | 33.2 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | | | |
| o-Dichlorobenzene | 32.4 | 5.0 | ug/kg | 50.0 | ND | 65 | 50-150 | | | |
| o-Xylene | 33.7 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| p-Dichlorobenzene | 32.0 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | | | |
| p-Isopropyltoluene | 32.6 | 5.0 | ug/kg | 50.0 | ND | 65 | 50-150 | | | |
| sec-Butylbenzene | 34.7 | 5.0 | ug/kg | 50.0 | ND | 69 | 50-150 | | | |
| Styrene | 35.1 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| tert-Butylbenzene | 33.7 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | | | |
| Tetrachloroethene | 35.8 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | | | |
| Toluene | 36.6 | 5.0 | ug/kg | 50.0 | ND | 73 | 11-140 | | | |
| trans-1,2-Dichloroethene | 36.4 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | | | |
| trans-1,3-Dichloropropene | 38.3 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | | | |
| Trichloroethene | 37.1 | 5.0 | ug/kg | 50.0 | ND | 74 | 10-144 | | | |
| Trichlorofluoromethane | 38.7 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | | | |
| Vinyl chloride | 36.9 | 5.0 | ug/kg | 50.0 | ND | 74 | 50-150 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *55.9* | | *ug/kg* | *50.0* | | *112* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *50.4* | | *ug/kg* | *50.0* | | *101* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *52.9* | | *ug/kg* | *50.0* | | *106* | *84-120* | | | |
| *Surr: Toluene-d8* | *52.1* | | *ug/kg* | *50.0* | | *104* | *82-120* | | | |
| **Matrix Spike (W5K0373-MS3)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/06/15 22:08 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 15.2 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | | | MS-05 |
| 1,1,1-Trichloroethane | 26.9 | 5.0 | ug/kg | 50.0 | ND | 54 | 50-150 | | | |
| 1,1,2,2-Tetrachloroethane | 17.8 | 5.0 | ug/kg | 50.0 | ND | 36 | 50-150 | | | MS-05 |
| 1,1,2-Trichloroethane | 17.4 | 5.0 | ug/kg | 50.0 | ND | 35 | 50-150 | | | MS-05 |
| 1,1-Dichloroethane | 29.0 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | | | |
| 1,1-Dichloroethene | 27.9 | 5.0 | ug/kg | 50.0 | ND | 56 | 38-139 | | | |
| 1,1-Dichloropropene | 24.5 | 5.0 | ug/kg | 50.0 | ND | 49 | 50-150 | | | MS-05 |
| 1,2,3-Trichlorobenzene | 7.65 | 5.0 | ug/kg | 50.0 | ND | 15 | 50-150 | | | MS-05 |
| 1,2,3-Trichloropropane | 19.5 | 5.0 | ug/kg | 50.0 | ND | 39 | 50-150 | | | MS-05 |
| 1,2,4-Trichlorobenzene | 8.69 | 5.0 | ug/kg | 50.0 | ND | 17 | 50-150 | | | MS-05 |
| 1,2,4-Trimethylbenzene | 17.4 | 5.0 | ug/kg | 50.0 | ND | 35 | 50-150 | | | MS-05 |
| 1,2-Dibromo-3-chloropropane | 16.2 | 5.0 | ug/kg | 50.0 | ND | 32 | 50-150 | | | MS-05 |



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Bakersfield, CA 93301 CA, 93301

**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS3)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/06/15 22:08 | | | | | | |
| 1,2-Dibromoethane (EDB) | 17.7 | 5.0 | ug/kg | 50.0 | ND | 35 | 50-150 | | | MS-05 |
| 1,2-Dichloroethane | 26.1 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | | | |
| 1,2-Dichloropropane | 22.1 | 5.0 | ug/kg | 50.0 | ND | 44 | 50-150 | | | MS-05 |
| 1,3,5-Trimethylbenzene | 18.8 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | | | MS-05 |
| 1,3-Dichloropropane | 18.7 | 5.0 | ug/kg | 50.0 | ND | 37 | 50-150 | | | MS-05 |
| 2,2-Dichloropropane | 30.7 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | | | |
| 2-Butanone | 35.1 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | | | |
| 2-Chloroethyl vinyl ether | 10.8 | 5.0 | ug/kg | 50.0 | ND | 22 | 50-150 | | | MS-05 |
| 2-Chlorotoluene | 18.2 | 5.0 | ug/kg | 50.0 | ND | 36 | 50-150 | | | MS-05 |
| 2-Hexanone | 29.4 | 5.0 | ug/kg | 50.0 | ND | 59 | 50-150 | | | |
| 4-Chlorotoluene | 17.2 | 5.0 | ug/kg | 50.0 | ND | 34 | 50-150 | | | MS-05 |
| 4-Methyl-2-pentanone | 40.6 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | | | |
| Acetone | 209 | 5.0 | ug/kg | 50.0 | 947 | NR | 50-150 | | | MS-05 |
| Acrolein | 3.42 | 5.0 | ug/kg | 50.0 | ND | 7 | 50-150 | | | MS-05 |
| Acrylonitrile | 43.2 | 5.0 | ug/kg | 50.0 | ND | 86 | 50-150 | | | |
| Benzene | 23.8 | 5.0 | ug/kg | 50.0 | ND | 48 | 30-134 | | | |
| Bromobenzene | 15.4 | 5.0 | ug/kg | 50.0 | ND | 31 | 50-150 | | | MS-05 |
| Bromochloromethane | 28.3 | 5.0 | ug/kg | 50.0 | ND | 57 | 50-150 | | | |
| Bromodichloromethane | 20.2 | 5.0 | ug/kg | 50.0 | ND | 40 | 50-150 | | | MS-05 |
| Bromoform | 13.3 | 5.0 | ug/kg | 50.0 | ND | 27 | 50-150 | | | MS-05 |
| Bromomethane | 12.1 | 5.0 | ug/kg | 50.0 | ND | 24 | 50-150 | | | MS-05 |
| Carbon tetrachloride | 27.9 | 5.0 | ug/kg | 50.0 | ND | 56 | 50-150 | | | |
| Chlorobenzene | 14.8 | 5.0 | ug/kg | 50.0 | ND | 30 | 3-135 | | | |
| Chloroethane | 34.3 | 5.0 | ug/kg | 50.0 | ND | 69 | 50-150 | | | |
| Chloroform | 24.8 | 5.0 | ug/kg | 50.0 | ND | 50 | 50-150 | | | |
| Chloromethane | 30.7 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | | | |
| cis-1,2-Dichloroethene | 29.9 | 5.0 | ug/kg | 50.0 | ND | 60 | 50-150 | | | |
| cis-1,3-Dichloropropene | 20.3 | 5.0 | ug/kg | 50.0 | ND | 41 | 50-150 | | | MS-05 |
| Dibromochloromethane | 15.9 | 5.0 | ug/kg | 50.0 | ND | 32 | 50-150 | | | MS-05 |
| Dibromomethane | 22.3 | 5.0 | ug/kg | 50.0 | ND | 45 | 50-150 | | | MS-05 |
| Dichlorodifluoromethane (Freon 12) | 34.5 | 5.0 | ug/kg | 50.0 | ND | 69 | 50-150 | | | |
| Ethylbenzene | 16.4 | 5.0 | ug/kg | 50.0 | ND | 33 | 50-150 | | | MS-05 |
| Hexachlorobutadiene | 11.3 | 5.0 | ug/kg | 50.0 | ND | 23 | 50-150 | | | MS-05 |
| Isopropylbenzene | 23.1 | 5.0 | ug/kg | 50.0 | ND | 46 | 50-150 | | | MS-05 |
| m,p-Xylene | 16.4 | 5.0 | ug/kg | 50.0 | ND | 33 | 50-150 | | | MS-05 |
| m-Dichlorobenzene | 15.1 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | | | MS-05 |
| Methyl tert-butyl ether (MTBE) | 37.6 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | | | |
| Methylene chloride | 38.4 | 5.0 | ug/kg | 50.0 | 16.7 | 44 | 50-150 | | | MS-05 |
| Naphthalene | 7.54 | 5.0 | ug/kg | 50.0 | ND | 15 | 50-150 | | | MS-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (W5K0373-MS3)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/06/15 22:08 | | | | | | |
| n-Butylbenzene | 18.9 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | | | MS-05 |
| n-Propylbenzene | 21.0 | 5.0 | ug/kg | 50.0 | ND | 42 | 50-150 | | | MS-05 |
| o-Dichlorobenzene | 13.8 | 5.0 | ug/kg | 50.0 | ND | 28 | 50-150 | | | MS-05 |
| o-Xylene | 13.8 | 5.0 | ug/kg | 50.0 | ND | 28 | 50-150 | | | MS-05 |
| p-Dichlorobenzene | 14.1 | 5.0 | ug/kg | 50.0 | ND | 28 | 50-150 | | | MS-05 |
| p-Isopropyltoluene | 20.0 | 5.0 | ug/kg | 50.0 | ND | 40 | 50-150 | | | MS-05 |
| sec-Butylbenzene | 23.1 | 5.0 | ug/kg | 50.0 | ND | 46 | 50-150 | | | MS-05 |
| Styrene | 12.8 | 5.0 | ug/kg | 50.0 | ND | 26 | 50-150 | | | MS-05 |
| tert-Butylbenzene | 21.7 | 5.0 | ug/kg | 50.0 | ND | 43 | 50-150 | | | MS-05 |
| Tetrachloroethene | 19.0 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | | | MS-05 |
| Toluene | 17.8 | 5.0 | ug/kg | 50.0 | ND | 36 | 11-140 | | | |
| trans-1,2-Dichloroethene | 26.9 | 5.0 | ug/kg | 50.0 | ND | 54 | 50-150 | | | |
| trans-1,3-Dichloropropene | 19.2 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | | | MS-05 |
| Trichloroethene | 20.8 | 5.0 | ug/kg | 50.0 | ND | 42 | 10-144 | | | |
| Trichlorofluoromethane | 29.8 | 5.0 | ug/kg | 50.0 | ND | 60 | 50-150 | | | |
| Vinyl chloride | 36.3 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | | | |
| *Surr: 1,2-Dichloroethane-d4* | *58.9* | | *ug/kg* | *50.0* | | *118* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *44.9* | | *ug/kg* | *50.0* | | *90* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *54.7* | | *ug/kg* | *50.0* | | *109* | *84-120* | | | |
| *Surr: Toluene-d8* | *49.8* | | *ug/kg* | *50.0* | | *100* | *82-120* | | | |
| **Matrix Spike Dup (W5K0373-MSD1)** | | **Source: 5I25014-01RE1** | | Analyzed: 11/06/15 21:37 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 32.2 | 5.0 | ug/kg | 50.0 | ND | 64 | 50-150 | 12 | 25 | |
| 1,1,1-Trichloroethane | 43.5 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | 16 | 25 | |
| 1,1,2,2-Tetrachloroethane | 71.8 | 5.0 | ug/kg | 50.0 | ND | 144 | 50-150 | 11 | 25 | |
| 1,1,2-Trichloroethane | 34.0 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | 15 | 25 | |
| 1,1-Dichloroethane | 45.8 | 5.0 | ug/kg | 50.0 | ND | 92 | 50-150 | 12 | 25 | |
| 1,1-Dichloroethene | 45.8 | 5.0 | ug/kg | 50.0 | ND | 92 | 38-139 | 16 | 25 | |
| 1,1-Dichloropropene | 39.7 | 5.0 | ug/kg | 50.0 | ND | 79 | 50-150 | 16 | 25 | |
| 1,2,3-Trichlorobenzene | 9.53 | 5.0 | ug/kg | 50.0 | ND | 19 | 50-150 | 43 | 25 | MS-05 |
| 1,2,3-Trichloropropane | 78.0 | 5.0 | ug/kg | 50.0 | ND | 156 | 50-150 | 10 | 25 | MS-05 |
| 1,2,4-Trichlorobenzene | 9.88 | 5.0 | ug/kg | 50.0 | ND | 20 | 50-150 | 23 | 25 | MS-05 |
| 1,2,4-Trimethylbenzene | 34.0 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | 11 | 25 | |
| 1,2-Dibromo-3-chloropropane | 53.7 | 5.0 | ug/kg | 50.0 | ND | 107 | 50-150 | 6 | 25 | |
| 1,2-Dibromoethane (EDB) | 35.9 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | 16 | 25 | |
| 1,2-Dichloroethane | 44.0 | 5.0 | ug/kg | 50.0 | ND | 88 | 50-150 | 9 | 25 | |
| 1,2-Dichloropropane | 37.7 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | 13 | 25 | |
| 1,3,5-Trimethylbenzene | 35.4 | 5.0 | ug/kg | 50.0 | ND | 71 | 50-150 | 9 | 25 | |
| 1,3-Dichloropropane | 35.6 | 5.0 | ug/kg | 50.0 | ND | 71 | 50-150 | 14 | 25 | |
| 2,2-Dichloropropane | 47.0 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | 12 | 25 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD1)** | **Source: 5I25014-01RE1** | | | Analyzed: 11/06/15 21:37 | | | | | | |
| 2-Butanone | 74.4 | 5.0 | ug/kg | 50.0 | ND | 149 | 50-150 | 6 | 25 | |
| 2-Chloroethyl vinyl ether | 17.8 | 5.0 | ug/kg | 50.0 | ND | 36 | 50-150 | 14 | 25 | MS-05 |
| 2-Chlorotoluene | 43.9 | 5.0 | ug/kg | 50.0 | ND | 88 | 50-150 | 8 | 25 | |
| 2-Hexanone | 45.1 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | 8 | 25 | |
| 4-Chlorotoluene | 42.8 | 5.0 | ug/kg | 50.0 | ND | 86 | 50-150 | 8 | 25 | |
| 4-Methyl-2-pentanone | 50.1 | 5.0 | ug/kg | 50.0 | ND | 100 | 50-150 | 5 | 25 | |
| Acetone | 86.0 | 5.0 | ug/kg | 50.0 | 103 | NR | 50-150 | 12 | 25 | MS-05 |
| Acrolein | 13.7 | 5.0 | ug/kg | 50.0 | ND | 27 | 50-150 | 25 | 25 | MS-05 |
| Acrylonitrile | 63.9 | 5.0 | ug/kg | 50.0 | ND | 128 | 50-150 | 2 | 25 | |
| Benzene | 40.8 | 5.0 | ug/kg | 50.0 | ND | 82 | 30-134 | 15 | 25 | |
| Bromobenzene | 52.5 | 5.0 | ug/kg | 50.0 | ND | 105 | 50-150 | 10 | 25 | |
| Bromochloromethane | 47.4 | 5.0 | ug/kg | 50.0 | ND | 95 | 50-150 | 9 | 25 | |
| Bromodichloromethane | 36.5 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | 13 | 25 | |
| Bromoform | 33.6 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | 14 | 25 | |
| Bromomethane | 53.1 | 5.0 | ug/kg | 50.0 | ND | 106 | 50-150 | 13 | 25 | |
| Carbon tetrachloride | 41.9 | 5.0 | ug/kg | 50.0 | ND | 84 | 50-150 | 15 | 25 | |
| Chlorobenzene | 33.3 | 5.0 | ug/kg | 50.0 | ND | 67 | 3-135 | 13 | 25 | |
| Chloroethane | 50.0 | 5.0 | ug/kg | 50.0 | ND | 100 | 50-150 | 13 | 25 | |
| Chloroform | 41.7 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | 13 | 25 | |
| Chloromethane | 55.6 | 5.0 | ug/kg | 50.0 | ND | 111 | 50-150 | 9 | 25 | |
| cis-1,2-Dichloroethene | 43.4 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | 13 | 25 | |
| cis-1,3-Dichloropropene | 37.6 | 5.0 | ug/kg | 50.0 | ND | 75 | 50-150 | 14 | 25 | |
| Dibromochloromethane | 30.4 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | 15 | 25 | |
| Dibromomethane | 41.2 | 5.0 | ug/kg | 50.0 | ND | 82 | 50-150 | 10 | 25 | |
| Dichlorodifluoromethane (Freon 12) | 54.2 | 5.0 | ug/kg | 50.0 | ND | 108 | 50-150 | 16 | 25 | |
| Ethylbenzene | 30.4 | 5.0 | ug/kg | 50.0 | ND | 61 | 50-150 | 13 | 25 | |
| Hexachlorobutadiene | 8.99 | 5.0 | ug/kg | 50.0 | ND | 18 | 50-150 | 12 | 25 | MS-05 |
| Isopropylbenzene | 50.0 | 5.0 | ug/kg | 50.0 | ND | 100 | 50-150 | 7 | 25 | |
| m,p-Xylene | 29.2 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | 11 | 25 | |
| m-Dichlorobenzene | 31.4 | 5.0 | ug/kg | 50.0 | ND | 63 | 50-150 | 10 | 25 | |
| Methyl tert-butyl ether (MTBE) | 54.5 | 5.0 | ug/kg | 50.0 | ND | 109 | 50-150 | 5 | 25 | |
| Methylene chloride | 63.3 | 5.0 | ug/kg | 50.0 | 38.3 | 50 | 50-150 | 8 | 25 | |
| Naphthalene | 14.3 | 5.0 | ug/kg | 50.0 | ND | 29 | 50-150 | 42 | 25 | MS-05 |
| n-Butylbenzene | 23.5 | 5.0 | ug/kg | 50.0 | ND | 47 | 50-150 | 5 | 25 | MS-05 |
| n-Propylbenzene | 42.7 | 5.0 | ug/kg | 50.0 | ND | 85 | 50-150 | 7 | 25 | |
| o-Dichlorobenzene | 29.1 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | 10 | 25 | |
| o-Xylene | 25.1 | 5.0 | ug/kg | 50.0 | ND | 50 | 50-150 | 14 | 25 | |
| p-Dichlorobenzene | 29.9 | 5.0 | ug/kg | 50.0 | ND | 60 | 50-150 | 10 | 25 | |
| p-Isopropyltoluene | 27.9 | 5.0 | ug/kg | 50.0 | ND | 56 | 50-150 | 7 | 25 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD1)** | **Source: 5I25014-01RE1** | | | Analyzed: 11/06/15 21:37 | | | | | | |
| sec-Butylbenzene | 35.1 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | 7 | 25 | |
| Styrene | 25.7 | 5.0 | ug/kg | 50.0 | ND | 51 | 50-150 | 15 | 25 | |
| tert-Butylbenzene | 35.8 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | 9 | 25 | |
| Tetrachloroethene | 24.3 | 5.0 | ug/kg | 50.0 | ND | 49 | 50-150 | 15 | 25 | MS-05 |
| Toluene | 28.8 | 5.0 | ug/kg | 50.0 | ND | 58 | 11-140 | 16 | 25 | |
| trans-1,2-Dichloroethene | 43.8 | 5.0 | ug/kg | 50.0 | ND | 88 | 50-150 | 14 | 25 | |
| trans-1,3-Dichloropropene | 36.6 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | 14 | 25 | |
| Trichloroethene | 34.4 | 5.0 | ug/kg | 50.0 | ND | 69 | 10-144 | 17 | 25 | |
| Trichlorofluoromethane | 49.6 | 5.0 | ug/kg | 50.0 | ND | 99 | 50-150 | 18 | 25 | |
| Vinyl chloride | 52.1 | 5.0 | ug/kg | 50.0 | ND | 104 | 50-150 | 14 | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *66.9* | | *ug/kg* | *50.0* | | *134* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *35.4* | | *ug/kg* | *50.0* | | *71* | *85-116* | | | *S-04* |
| *Surr: Dibromofluoromethane* | *57.7* | | *ug/kg* | *50.0* | | *115* | *84-120* | | | |
| *Surr: Toluene-d8* | *42.5* | | *ug/kg* | *50.0* | | *85* | *82-120* | | | |
| **Matrix Spike Dup (W5K0373-MSD2)** | **Source: 5J02045-01RE1** | | | Analyzed: 11/06/15 17:55 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 43.6 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | 26 | 25 | MS-05 |
| 1,1,1-Trichloroethane | 46.8 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | 16 | 25 | |
| 1,1,2,2-Tetrachloroethane | 45.1 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | 35 | 25 | MS-05 |
| 1,1,2-Trichloroethane | 46.2 | 5.0 | ug/kg | 50.0 | ND | 92 | 50-150 | 30 | 25 | MS-05 |
| 1,1-Dichloroethane | 45.2 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | 18 | 25 | |
| 1,1-Dichloroethene | 41.0 | 5.0 | ug/kg | 50.0 | ND | 82 | 38-139 | 13 | 25 | |
| 1,1-Dichloropropene | 44.8 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | 14 | 25 | |
| 1,2,3-Trichlorobenzene | 32.9 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | 30 | 25 | MS-05 |
| 1,2,3-Trichloropropane | 43.7 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | 31 | 25 | MS-05 |
| 1,2,4-Trichlorobenzene | 33.6 | 5.0 | ug/kg | 50.0 | ND | 67 | 50-150 | 27 | 25 | MS-05 |
| 1,2,4-Trimethylbenzene | 40.3 | 5.0 | ug/kg | 50.0 | ND | 81 | 50-150 | 19 | 25 | |
| 1,2-Dibromo-3-chloropropane | 44.2 | 5.0 | ug/kg | 50.0 | ND | 88 | 50-150 | 41 | 25 | MS-05 |
| 1,2-Dibromoethane (EDB) | 50.2 | 5.0 | ug/kg | 50.0 | ND | 100 | 50-150 | 32 | 25 | MS-05 |
| 1,2-Dichloroethane | 46.8 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | 26 | 25 | MS-05 |
| 1,2-Dichloropropane | 46.5 | 5.0 | ug/kg | 50.0 | ND | 93 | 50-150 | 21 | 25 | |
| 1,3,5-Trimethylbenzene | 39.1 | 5.0 | ug/kg | 50.0 | ND | 78 | 50-150 | 15 | 25 | |
| 1,3-Dichloropropane | 48.2 | 5.0 | ug/kg | 50.0 | ND | 96 | 50-150 | 30 | 25 | MS-05 |
| 2,2-Dichloropropane | 48.8 | 5.0 | ug/kg | 50.0 | ND | 98 | 50-150 | 17 | 25 | |
| 2-Butanone | 125 | 5.0 | ug/kg | 50.0 | ND | 251 | 50-150 | NR | 25 | MS-05 |
| 2-Chloroethyl vinyl ether | 29.9 | 5.0 | ug/kg | 50.0 | ND | 60 | 50-150 | 30 | 25 | MS-05 |
| 2-Chlorotoluene | 42.6 | 5.0 | ug/kg | 50.0 | ND | 85 | 50-150 | 19 | 25 | |
| 2-Hexanone | 46.5 | 5.0 | ug/kg | 50.0 | ND | 93 | 50-150 | 34 | 25 | MS-05 |
| 4-Chlorotoluene | 43.2 | 5.0 | ug/kg | 50.0 | ND | 86 | 50-150 | 22 | 25 | |
| 4-Methyl-2-pentanone | 77.7 | 5.0 | ug/kg | 50.0 | ND | 155 | 50-150 | 42 | 25 | MS-05 |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD2)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 17:55 | | | | | | |
| Acetone | 55.6 | 5.0 | ug/kg | 50.0 | 186 | NR | 50-150 | 40 | 25 | MS-05 |
| Acrolein | 6.63 | 5.0 | ug/kg | 50.0 | ND | 13 | 50-150 | 100 | 25 | MS-05 |
| Acrylonitrile | 46.2 | 5.0 | ug/kg | 50.0 | ND | 92 | 50-150 | 31 | 25 | MS-05 |
| Benzene | 45.9 | 5.0 | ug/kg | 50.0 | ND | 92 | 30-134 | 18 | 25 | |
| Bromobenzene | 41.4 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | 26 | 25 | MS-05 |
| Bromochloromethane | 49.2 | 5.0 | ug/kg | 50.0 | ND | 98 | 50-150 | 28 | 25 | MS-05 |
| Bromodichloromethane | 48.6 | 5.0 | ug/kg | 50.0 | ND | 97 | 50-150 | 26 | 25 | MS-05 |
| Bromoform | 44.4 | 5.0 | ug/kg | 50.0 | ND | 89 | 50-150 | 35 | 25 | MS-05 |
| Bromomethane | 45.3 | 5.0 | ug/kg | 50.0 | ND | 91 | 50-150 | 18 | 25 | |
| Carbon tetrachloride | 46.9 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | 15 | 25 | |
| Chlorobenzene | 43.9 | 5.0 | ug/kg | 50.0 | ND | 88 | 3-135 | 21 | 25 | |
| Chloroethane | 42.2 | 5.0 | ug/kg | 50.0 | ND | 84 | 50-150 | 16 | 25 | |
| Chloroform | 45.6 | 5.0 | ug/kg | 50.0 | ND | 91 | 50-150 | 21 | 25 | |
| Chloromethane | 44.3 | 5.0 | ug/kg | 50.0 | ND | 89 | 50-150 | 17 | 25 | |
| cis-1,2-Dichloroethene | 54.0 | 5.0 | ug/kg | 50.0 | ND | 108 | 50-150 | 141 | 25 | MS-05 |
| cis-1,3-Dichloropropene | 50.3 | 5.0 | ug/kg | 50.0 | ND | 101 | 50-150 | 26 | 25 | MS-05 |
| Dibromochloromethane | 51.0 | 5.0 | ug/kg | 50.0 | ND | 102 | 50-150 | 33 | 25 | MS-05 |
| Dibromomethane | 47.0 | 5.0 | ug/kg | 50.0 | ND | 94 | 50-150 | 30 | 25 | MS-05 |
| Dichlorodifluoromethane (Freon 12) | 45.0 | 5.0 | ug/kg | 50.0 | ND | 90 | 50-150 | 12 | 25 | |
| Ethylbenzene | 41.8 | 5.0 | ug/kg | 50.0 | ND | 84 | 50-150 | 18 | 25 | |
| Hexachlorobutadiene | 26.0 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | 4 | 25 | |
| Isopropylbenzene | 38.7 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | 15 | 25 | |
| m,p-Xylene | 44.0 | 5.0 | ug/kg | 50.0 | ND | 88 | 50-150 | 18 | 25 | |
| m-Dichlorobenzene | 41.9 | 5.0 | ug/kg | 50.0 | ND | 84 | 50-150 | 23 | 25 | |
| Methyl tert-butyl ether (MTBE) | 47.8 | 5.0 | ug/kg | 50.0 | ND | 96 | 50-150 | 34 | 25 | MS-05 |
| Methylene chloride | 51.6 | 5.0 | ug/kg | 50.0 | 6.15 | 91 | 50-150 | 22 | 25 | |
| Naphthalene | 35.6 | 5.0 | ug/kg | 50.0 | ND | 71 | 50-150 | 42 | 25 | MS-05 |
| n-Butylbenzene | 36.2 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | 9 | 25 | |
| n-Propylbenzene | 38.4 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | 14 | 25 | |
| o-Dichlorobenzene | 42.6 | 5.0 | ug/kg | 50.0 | ND | 85 | 50-150 | 27 | 25 | MS-05 |
| o-Xylene | 41.4 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | 21 | 25 | |
| p-Dichlorobenzene | 41.4 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | 25 | 25 | |
| p-Isopropyltoluene | 36.4 | 5.0 | ug/kg | 50.0 | ND | 73 | 50-150 | 11 | 25 | |
| sec-Butylbenzene | 38.3 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | 10 | 25 | |
| Styrene | 44.4 | 5.0 | ug/kg | 50.0 | ND | 89 | 50-150 | 24 | 25 | |
| tert-Butylbenzene | 37.8 | 5.0 | ug/kg | 50.0 | ND | 76 | 50-150 | 12 | 25 | |
| Tetrachloroethene | 41.6 | 5.0 | ug/kg | 50.0 | ND | 83 | 50-150 | 15 | 25 | |
| Toluene | 44.0 | 5.0 | ug/kg | 50.0 | ND | 88 | 11-140 | 18 | 25 | |
| trans-1,2-Dichloroethene | 42.4 | 5.0 | ug/kg | 50.0 | ND | 85 | 50-150 | 15 | 25 | |



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2001 22nd Street, Suite 100
Bakersfield, CA 93301 CA, 93301

**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD2)** | | **Source: 5J02045-01RE1** | | Analyzed: 11/06/15 17:55 | | | | | | |
| trans-1,3-Dichloropropene | 51.6 | 5.0 | ug/kg | 50.0 | ND | 103 | 50-150 | 30 | 25 | MS-05 |
| Trichloroethene | 43.7 | 5.0 | ug/kg | 50.0 | ND | 87 | 10-144 | 16 | 25 | |
| Trichlorofluoromethane | 43.4 | 5.0 | ug/kg | 50.0 | ND | 87 | 50-150 | 12 | 25 | |
| Vinyl chloride | 42.8 | 5.0 | ug/kg | 50.0 | ND | 86 | 50-150 | 15 | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *55.7* | | *ug/kg* | *50.0* | | *111* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *51.2* | | *ug/kg* | *50.0* | | *102* | *85-116* | | | |
| *Surr: Dibromofluoromethane* | *52.6* | | *ug/kg* | *50.0* | | *105* | *84-120* | | | |
| *Surr: Toluene-d8* | *52.7* | | *ug/kg* | *50.0* | | *105* | *82-120* | | | |
| **Matrix Spike Dup (W5K0373-MSD3)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/06/15 22:40 | | | | | | |
| 1,1,1,2-Tetrachloroethane | 16.5 | 5.0 | ug/kg | 50.0 | ND | 33 | 50-150 | 8 | 25 | MS-05 |
| 1,1,1-Trichloroethane | 31.7 | 5.0 | ug/kg | 50.0 | ND | 63 | 50-150 | 17 | 25 | |
| 1,1,2,2-Tetrachloroethane | 13.6 | 5.0 | ug/kg | 50.0 | ND | 27 | 50-150 | 27 | 25 | MS-05 |
| 1,1,2-Trichloroethane | 17.0 | 5.0 | ug/kg | 50.0 | ND | 34 | 50-150 | 3 | 25 | MS-05 |
| 1,1-Dichloroethane | 30.2 | 5.0 | ug/kg | 50.0 | ND | 60 | 50-150 | 4 | 25 | |
| 1,1-Dichloroethene | 31.4 | 5.0 | ug/kg | 50.0 | ND | 63 | 38-139 | 12 | 25 | |
| 1,1-Dichloropropene | 29.3 | 5.0 | ug/kg | 50.0 | ND | 59 | 50-150 | 18 | 25 | |
| 1,2,3-Trichlorobenzene | 10.0 | 5.0 | ug/kg | 50.0 | ND | 20 | 50-150 | 27 | 25 | MS-05 |
| 1,2,3-Trichloropropane | 14.5 | 5.0 | ug/kg | 50.0 | ND | 29 | 50-150 | 29 | 25 | MS-05 |
| 1,2,4-Trichlorobenzene | 10.8 | 5.0 | ug/kg | 50.0 | ND | 22 | 50-150 | 22 | 25 | MS-05 |
| 1,2,4-Trimethylbenzene | 19.1 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | 9 | 25 | MS-05 |
| 1,2-Dibromo-3-chloropropane | 13.4 | 5.0 | ug/kg | 50.0 | ND | 27 | 50-150 | 19 | 25 | MS-05 |
| 1,2-Dibromoethane (EDB) | 16.4 | 5.0 | ug/kg | 50.0 | ND | 33 | 50-150 | 8 | 25 | MS-05 |
| 1,2-Dichloroethane | 24.7 | 5.0 | ug/kg | 50.0 | ND | 49 | 50-150 | 6 | 25 | MS-05 |
| 1,2-Dichloropropane | 22.8 | 5.0 | ug/kg | 50.0 | ND | 46 | 50-150 | 3 | 25 | MS-05 |
| 1,3,5-Trimethylbenzene | 21.3 | 5.0 | ug/kg | 50.0 | ND | 43 | 50-150 | 13 | 25 | MS-05 |
| 1,3-Dichloropropane | 17.7 | 5.0 | ug/kg | 50.0 | ND | 35 | 50-150 | 5 | 25 | MS-05 |
| 2,2-Dichloropropane | 34.4 | 5.0 | ug/kg | 50.0 | ND | 69 | 50-150 | 11 | 25 | |
| 2-Butanone | 33.2 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | 6 | 25 | |
| 2-Chloroethyl vinyl ether | 9.57 | 5.0 | ug/kg | 50.0 | ND | 19 | 50-150 | 12 | 25 | MS-05 |
| 2-Chlorotoluene | 19.7 | 5.0 | ug/kg | 50.0 | ND | 39 | 50-150 | 8 | 25 | MS-05 |
| 2-Hexanone | 26.2 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | 12 | 25 | |
| 4-Chlorotoluene | 18.5 | 5.0 | ug/kg | 50.0 | ND | 37 | 50-150 | 7 | 25 | MS-05 |
| 4-Methyl-2-pentanone | 32.5 | 5.0 | ug/kg | 50.0 | ND | 65 | 50-150 | 22 | 25 | |
| Acetone | 190 | 5.0 | ug/kg | 50.0 | 947 | NR | 50-150 | 9 | 25 | MS-05 |
| Acrolein | 4.50 | 5.0 | ug/kg | 50.0 | ND | 9 | 50-150 | NR | 25 | MS-05 |
| Acrylonitrile | 38.6 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | 11 | 25 | |
| Benzene | 26.0 | 5.0 | ug/kg | 50.0 | ND | 52 | 30-134 | 9 | 25 | |
| Bromobenzene | 14.8 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | 4 | 25 | MS-05 |
| Bromochloromethane | 26.1 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | 8 | 25 | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD3)** | **Source: 5J02046-01RE1** | | | Analyzed: 11/06/15 22:40 | | | | | | |
| Bromodichloromethane | 21.1 | 5.0 | ug/kg | 50.0 | ND | 42 | 50-150 | 4 | 25 | MS-05 |
| Bromoform | 12.8 | 5.0 | ug/kg | 50.0 | ND | 26 | 50-150 | 4 | 25 | MS-05 |
| Bromomethane | 15.6 | 5.0 | ug/kg | 50.0 | ND | 31 | 50-150 | 26 | 25 | MS-05 |
| Carbon tetrachloride | 33.2 | 5.0 | ug/kg | 50.0 | ND | 66 | 50-150 | 17 | 25 | |
| Chlorobenzene | 17.2 | 5.0 | ug/kg | 50.0 | ND | 34 | 3-135 | 15 | 25 | |
| Chloroethane | 34.7 | 5.0 | ug/kg | 50.0 | ND | 69 | 50-150 | 1 | 25 | |
| Chloroform | 25.8 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | 4 | 25 | |
| Chloromethane | 30.8 | 5.0 | ug/kg | 50.0 | ND | 62 | 50-150 | 0.4 | 25 | |
| cis-1,2-Dichloroethene | 30.8 | 5.0 | ug/kg | 50.0 | ND | 62 | 50-150 | 3 | 25 | |
| cis-1,3-Dichloropropene | 20.5 | 5.0 | ug/kg | 50.0 | ND | 41 | 50-150 | 1 | 25 | MS-05 |
| Dibromochloromethane | 16.0 | 5.0 | ug/kg | 50.0 | ND | 32 | 50-150 | 0.1 | 25 | MS-05 |
| Dibromomethane | 20.4 | 5.0 | ug/kg | 50.0 | ND | 41 | 50-150 | 9 | 25 | MS-05 |
| Dichlorodifluoromethane (Freon 12) | 38.4 | 5.0 | ug/kg | 50.0 | ND | 77 | 50-150 | 11 | 25 | |
| Ethylbenzene | 20.2 | 5.0 | ug/kg | 50.0 | ND | 40 | 50-150 | 21 | 25 | MS-05 |
| Hexachlorobutadiene | 15.1 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | 29 | 25 | MS-05 |
| Isopropylbenzene | 24.4 | 5.0 | ug/kg | 50.0 | ND | 49 | 50-150 | 5 | 25 | MS-05 |
| m,p-Xylene | 20.4 | 5.0 | ug/kg | 50.0 | ND | 41 | 50-150 | 22 | 25 | MS-05 |
| m-Dichlorobenzene | 16.1 | 5.0 | ug/kg | 50.0 | ND | 32 | 50-150 | 6 | 25 | MS-05 |
| Methyl tert-butyl ether (MTBE) | 33.8 | 5.0 | ug/kg | 50.0 | ND | 68 | 50-150 | 11 | 25 | |
| Methylene chloride | 36.5 | 5.0 | ug/kg | 50.0 | 16.7 | 40 | 50-150 | 5 | 25 | MS-05 |
| Naphthalene | 8.30 | 5.0 | ug/kg | 50.0 | ND | 17 | 50-150 | 10 | 25 | MS-05 |
| n-Butylbenzene | 21.9 | 5.0 | ug/kg | 50.0 | ND | 44 | 50-150 | 14 | 25 | MS-05 |
| n-Propylbenzene | 23.2 | 5.0 | ug/kg | 50.0 | ND | 46 | 50-150 | 10 | 25 | MS-05 |
| o-Dichlorobenzene | 14.1 | 5.0 | ug/kg | 50.0 | ND | 28 | 50-150 | 2 | 25 | MS-05 |
| o-Xylene | 16.9 | 5.0 | ug/kg | 50.0 | ND | 34 | 50-150 | 20 | 25 | MS-05 |
| p-Dichlorobenzene | 14.8 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | 5 | 25 | MS-05 |
| p-Isopropyltoluene | 22.4 | 5.0 | ug/kg | 50.0 | ND | 45 | 50-150 | 11 | 25 | MS-05 |
| sec-Butylbenzene | 26.1 | 5.0 | ug/kg | 50.0 | ND | 52 | 50-150 | 12 | 25 | |
| Styrene | 15.2 | 5.0 | ug/kg | 50.0 | ND | 30 | 50-150 | 17 | 25 | MS-05 |
| tert-Butylbenzene | 24.0 | 5.0 | ug/kg | 50.0 | ND | 48 | 50-150 | 10 | 25 | MS-05 |
| Tetrachloroethene | 23.9 | 5.0 | ug/kg | 50.0 | ND | 48 | 50-150 | 23 | 25 | MS-05 |
| Toluene | 21.5 | 5.0 | ug/kg | 50.0 | ND | 43 | 11-140 | 19 | 25 | |
| trans-1,2-Dichloroethene | 28.8 | 5.0 | ug/kg | 50.0 | ND | 58 | 50-150 | 7 | 25 | |
| trans-1,3-Dichloropropene | 18.9 | 5.0 | ug/kg | 50.0 | ND | 38 | 50-150 | 2 | 25 | MS-05 |
| Trichloroethene | 24.6 | 5.0 | ug/kg | 50.0 | ND | 49 | 10-144 | 17 | 25 | |
| Trichlorofluoromethane | 34.8 | 5.0 | ug/kg | 50.0 | ND | 70 | 50-150 | 16 | 25 | |
| Vinyl chloride | 36.2 | 5.0 | ug/kg | 50.0 | ND | 72 | 50-150 | 0.3 | 25 | |
| *Surr: 1,2-Dichloroethane-d4* | *58.7* | | *ug/kg* | *50.0* | | *117* | *78-140* | | | |
| *Surr: 4-Bromofluorobenzene* | *49.1* | | *ug/kg* | *50.0* | | *98* | *85-116* | | | |



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**Date Received:** 10/02/15 15:50
**Date Reported:** 11/11/15 15:57

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

**Batch W5K0373 - EPA 8260B**

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | % REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike Dup (W5K0373-MSD3)** | | **Source: 5J02046-01RE1** | | Analyzed: 11/06/15 22:40 | | | | | | |
| *Surr: Dibromofluoromethane* | *54.0* | | *ug/kg* | *50.0* | | *108* | *84-120* | | | |
| *Surr: Toluene-d8* | *51.0* | | *ug/kg* | *50.0* | | *102* | *82-120* | | | |



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**Date Received:** 10/02/15 15:50
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## Notes and Definitions

| | |
|---|---|
| **S-04** | The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect. |
| **R-03** | The RPD is not applicable for result below the reporting limit (either ND or J value). |
| **R-02** | The RPD was outside of QC acceptance limits due to possible matrix interference. |
| **Q-ME** | Acceptable QC with marginal exceedance |
| **Q-12** | The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data. |
| **Q-08** | High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit. |
| **MS-05** | The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable. |
| **M-05** | Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution. |
| **M-02** | Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution. |
| **HC-02** | Hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel. |
| **C-3640** | The "GPC Cleanup" was performed to the sample. |
| **A-01** | Analyses are not controlled on RPD values from sample concentrations less than or at the reporting limit. |
| **ND** | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| **NR** | Not Reportable |
| **Dil** | Dilution |
| **dry** | Sample results reported on a dry weight basis |
| **RPD** | Relative Percent Difference |
| **% Rec** | Percent Recovery |
| **Sub** | Subcontracted analysis, original report available upon request |
| **MDL** | Method Detection Limit |
| **MDA** | Minimum Detectable Activity |
| **MRL** | Method Reporting Limit |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



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# APPENDIX D

## Weck Laboratories, Inc. Letter to Mr. David Ansolabehere of Cawelo Water District dated February 8, 2016

February 8, 2016

David Ansolabehere
Cawelo Water District
17207 Industrial Farm Rd.
Bakersfield, CA 93308

Re: Determination of gasoline and diesel range organics in food materials

Dear David:

In late 2015, your company requested the analysis of several samples consisting of raw almonds, grapes, and raw pistachios (work orders 5I25014, 5J02045, and 5J02046) for a variety of target analytes. Among the analyses requested were EPA method 8015 for gasoline and diesel range organics—GRO and DRO, respectively. These methods were written by the EPA for the determination of these organic constituents in environmental matrices, typically those with minimal background organic components. Being composed of organic matter, the samples received inherently contain a large variety of volatile organic material, including but not limited to aldehydes, ketones, alcohols, and aromatics. Due to the extreme interferences observed in preliminary analyses of these samples, several dilutions were performed in order to satisfy the quality control measures required by some analytical methods. The volatile nature of the interferants meant that the methods most affected by these matrix effects were those measuring volatile organics, such as EPA 8015. For this reason, two sets of samples were analyzed—one with a large dilution to satisfy the quality control requirements of each analytical method, and one with no dilution factor to determine the presence or absence of the analytes of interest.

Generally speaking, EPA method 8015 involves separating the volatile organic components from one another and detecting their concentrations using a detector sensitive to carbon-hydrogen bonds. The separation is performed on a gas chromatograph, which separates organic compounds based on their boiling point and overall molecular weight, e.g., a hydrocarbon with 8 carbons ($C_8H_{18}$, boiling point 125°C) will come out before a heavier 16 carbon compound ($C_{16}H_{34}$, boiling point 287°C). The detection of hydrocarbons is performed using a flame ionization detector, a non-specific detector which will only give a response based on the number of C—H bonds that are present in a compound, e.g., $C_8H_{18}$ will give a smaller signal than $C_{16}H_{34}$. This detector however cannot differentiate between two organic compounds of similar size, but with a different structure.

When determining GROs and DROs using this technique, the results are determined by integrating the entire chromatographic range and summing all of the compounds found in that range. This approach is highly susceptible to matrix interferences when analyzing materials with many organic components—such as almonds, grapes, and pistachios—because the non-selective detector will give a response for all hydrocarbons. This results in all organic components found in the samples with a molecular weight similar to the GROs (C6 to C10) or DROs (C10 to C23) being included in the final result. However, to prevent this type of false positive result, all detections using this technique are confirmed by comparing the sample chromatogram to a chromatogram of a known standard. Since GROs and DROs have very unique and typical compositions, the pattern and retention times for each of the component peaks are very reproducible. In the case of the samples you provided, the compounds found in the quantitation range for both GROs and DROs did not match the hydrocarbon pattern associated with either fuel. These results indicate that neither gasoline nor diesel fuels are present in the samples.



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If you require any further clarification on this matter, please do not hesitate to get in touch with me.

Best regards,

Agustin Pierri, PhD
Method Development Manager
Weck Laboratories Inc.
agustin.pierri@wecklabs.com
(626)336-2139 X128



14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com