

CH2M HILL, INC 1000 Wilshire Boulevard 21<sup>st</sup> Floor Los Angeles, CA 90017 Tel 213-228-8271 Fax 714-424-2135

August 10, 2011

407609.C1.03

Mr. Paul Cho California Regional Water Quality Control Board, Los Angeles Region 320 West 4<sup>th</sup> Street, Suite 200 Los Angeles, California 90013

# Subject: Results of Step-Out Investigation at the Southeastern Area of the SFPP Norwalk Station, Norwalk, California

Dear Mr. Cho:

This letter report presents the findings of the work performed by CH2M HILL Engineers, Inc. (CH2M HILL) in accordance with the work plan titled, *Work Plan for Step-Out Investigation in the Vicinity of Well GMW-O-18, Southeastern Off-Site Area, Defense Fuel Support Point Norwalk, 15306 Norwalk Boulevard, Norwalk, California (SCP No. 0286B),* prepared by AMEC Geomatrix, Inc. (AMEC, 2010a).

The work plan was prepared in response to a letter from the California Regional Water Quality Control Board, Los Angeles Region (RWQCB), dated February 26, 2010, which required that SFPP, L.P. (SFPP) conduct a step-out investigation in the vicinity of well GMW-O-18 to delineate impacts in groundwater in this area. On behalf of SFPP, an operating partner of Kinder Morgan Energy Partners, L.P. (KMEP), AMEC prepared and submitted the work plan to RWQCB, on April 19, 2010. RWQCB approved the work plan in a letter to KMEP, dated August 12, 2010.

# Background

The following sections summarize relevant project background information including site description, site hydrogeologic setting, and previous investigations in the vicinity of the offsite 24-inch block valve area, which encompasses well GMW-O-18. Other areas of the site impacted by petroleum hydrocarbons are not part of this scope.

## Site Description

The Defense Fuel Support Point (DFSP) facility is located at 15306 Norwalk Boulevard in Norwalk, California (Figure 1). SFPP has equipment within two acres at the site and has

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easements for its pipelines along the southern and eastern boundaries of the facility. Previously, SFPP operated a pump station near the south-central area of the site. The pump station was decommissioned in 2001 but three pipelines heading eastward along the southern boundary of the DFSP facility, one of which bends at the southeastern corner of the facility and continues northward within the eastern easement, remain in service and continue to convey refined petroleum fuels including gasoline, diesel, and jet fuel. The pipelines are fitted with block valves, two of which are located along a 24-inch-diameter pipeline and within areas currently undergoing remediation. One block valve is located in the south-central portion of the site and is referred to as the "intermediate 24-inch block valve." The other block valve is located offsite near the southeastern area of the site and is referred to as the "southeastern 24-inch block valve."

# Hydrogeologic Setting

The uppermost groundwater zone in the site vicinity is a semiperched unit between depths of approximately 25 and 50 feet below ground surface (bgs). Groundwater flow within this uppermost unconfined zone, as interpreted during previous assessments and monitoring at DFSP, is generally northwestward under a horizontal gradient of approximately 0.001 foot per foot (ft/ft). The uppermost groundwater zone overlies the Bellflower aquitard of the Lakewood Formation. Based on lithologic logs from previous assessments at and near DFSP, the Bellflower aquitard lies between depths of approximately 50 and 80 feet bgs beneath the site and consists of predominantly clay, silty clay, and sandy clay with some interbedded sand with silt.

The Exposition aquifer underlies the Bellflower aquitard between depths of approximately 80 and 220 feet bgs. The potentiometric surface in the Exposition aquifer is approximately 20 feet lower than that in the semiperched uppermost groundwater zone. This relatively consistent difference in hydraulic heads between the semiperched upper groundwater zone and the Exposition aquifer indicates that the Bellflower aquitard inhibits the vertical movement of groundwater in the site area. The horizontal hydraulic gradient in the Exposition aquifer beneath the site area has had a magnitude of approximately 0.001 ft/ft and a generally southeastward direction. The generally southeastward direction of the horizontal hydraulic gradient (and interpreted direction of horizontal groundwater flow) in the Exposition aquifer is roughly opposite the general direction of interpreted groundwater flow in the uppermost groundwater zone. These distinctly different hydraulic conditions consistently interpreted over time above and below the Bellflower aquitard support the interpretation that the Bellflower aquitard in this area comprises a unit that is laterally continuous and has a relatively low bulk vertical hydraulic conductivity.

### **Previous Investigations**

The following sections describe previous soil and groundwater investigations conducted in the vicinity of the offsite 24-inch block valve.

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### Soil Assessments

In April 1994, SFPP detected a leaking seal at the offsite 24-inch block valve. The valve was repaired and approximately 30 cubic yards of hydrocarbon-impacted soil was excavated from the vicinity of the valve. Geomatrix was retained to assess subsurface conditions associated with the release that occurred as a result of the leaking valve seal, and conducted a subsurface assessment consisting of soil sampling at nine boring locations, five of which were converted to groundwater monitoring wells. The results of the 1994 subsurface assessment were presented in the report titled, *Site Assessment of Fuel Hydrocarbons in Soil and Groundwater Associated with a Leak in a 24-Inch Block Valve Area* (Geomatrix, 1994). The soil sampling analytical results from the 1994 assessment showed that the lateral extent of soil impacts around the offsite 24-inch block valve was adequately delineated by borings GMW-SF-7 to the northwest, GMW-SF-8 to the southwest, GMW-O-17 to the south-southeast, GMW-O-19 to the east-southeast, and GMW-O-18 to the northeast. A figure showing the analytical results for the 1994 soil sampling is provided in Attachment A.

The results from the 1994 assessment showed that the presence of elevated concentrations of fuel constituents in soil was limited to the immediate vicinity of the release area. Elevated concentrations of fuel constituents were detected at greater depths (between approximately 24.5 and 29.5 feet bgs at several boring locations); however, based on the depth to groundwater beneath the site (historically between approximately 24 and 30 feet bgs), the presence of fuel constituents at these depths is interpreted to reflect groundwater or capillary zone conditions rather than vadose zone soil.

Remediation activities were implemented in 1994 in response to the release at the offsite 24-inch block valve and have included product removal from monitoring wells by vacuum truck, total fluids extraction (TFE), and soil vapor extraction.

In 2006 and 2007, Parsons Corporation (Parsons) collected and analyzed soil and soil gas samples offsite as part of an investigation on behalf of Defense Logistics Agency (DLA) Energy (formerly the Defense Energy Support Center [DESC]) and KMEP. The data are presented in the report entitled, Investigation Report for Holifield Park and Dolland Elementary School (Parsons, 2007). The southern extent of Parsons' investigation included five borings (B-122, B-24, B-24NORTH, B-24EAST, and B-24SOUTH) in the vicinity of the offsite 24-inch block valve. Parsons collected soil samples at all five locations and soil gas samples at four of these five locations. During its 2006/2007 investigation, Parsons collected soil samples to a depth of approximately 25 feet at all five locations. Volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH) were not detected or were detected at concentrations below the risk-based and soil-to-groundwater screening levels in soil samples from all locations with one exception. In B-24SOUTH, benzene, toluene, and TPH quantified using a gasoline standard (TPH-g) were detected at concentrations above screening levels in the sample from 25 feet bgs. As indicated above, it is likely that the concentrations of fuel constituents in soil from this depth are a result of historical impacts to groundwater. Parsons indicated in its 2007 report that further investigation to delineate the extent of soil impacts in this area is not necessary because concentrations of these

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constituents in soil were not detected in nearby soil sampling locations (e.g., B-24 and B-24EAST) at the corresponding depth (25 feet bgs), indicating that the vertical and horizontal extent of impacts in soil appear to have been characterized in these directions. Parsons' 2007 report also indicates that the southern extent of potential soil impacts at B-24SOUTH appears to have been characterized based on VOC concentrations in soil samples collected approximately 75 feet south of B-24SOUTH as previously reported by KMEP (Geomatrix, 2006).

In summary, subsurface investigations conducted in the area of the offsite 24-inch block valve since 1994 defined the lateral and vertical extent of fuel constituents in the vadose zone. Impacts to the vadose zone were limited to areas in the immediate vicinity of the 24-inch block valve area (Attachment A). Results also indicate that the vadose zone soil beneath the residential area to the south, near upgradient monitoring well GMW-O-17, was not impacted by the release.

### Groundwater Assessments

Assessment of impacts to groundwater in the vicinity of the offsite 24-inch block valve release began in 1994 with the installation and sampling of five groundwater monitoring wells. Groundwater sampling was conducted from the five wells during the 1994 site assessment and TPH-g and TPH quantified using a diesel standard (TPH-d) were not detected above laboratory detection limits. Benzene, toluene, ethylbenzene, and xylenes (BTEX) were not detected in samples from four of the five monitoring wells; low concentrations of benzene and toluene were detected in the groundwater sample from GMW-O-19, approximately 115 feet east of the valve. The groundwater samples collected in 1994 were not analyzed for methyl tertiary butyl ether (MTBE). Subsequent to the 1994 investigation, results of groundwater monitoring (reported in semiannual groundwater monitoring reports) indicated the presence of groundwater containing dissolved MTBE in the offsite 24-inch block valve area. In November 2001, increased MTBE concentrations were noted at wells MW-16 and MW-29, both of which are located hydraulically downgradient (northwest) of the 24-inch block valve area.

Based on the increase in MTBE concentrations in these two wells, an additional groundwater assessment was conducted in February and April 2002 in the hydraulically downgradient vicinity of the offsite 24-inch block valve. The 2002 assessment consisted of groundwater sampling of 14 existing monitoring wells and collection and analysis of groundwater screening samples at 20 boring locations (GB1, GB1A, GB2, GB2A, GB3, GB4, GB4A, and GB5 through GB17). Tertiary butyl alcohol (TBA) was not analyzed as part of this investigation. Data from the 2002 assessment can be found in the report titled, *Supplemental Groundwater Assessment Northwest of the 24-inch Block Valve Area* (Geomatrix, 2002). Groundwater screening samples were collected from multiple depths at five of these boring locations. The results of the 2002 groundwater assessment indicated a northwest-trending area of elevated MTBE concentrations in groundwater at depths of approximately 43 to 46 feet bgs. At that time, the lateral extent of MTBE impact to groundwater was generally delineated by wells MW-29, GMW-13, and GMW-O-16, and borings GB10, GB15, and GB5. Figures showing the Mr. Paul Cho, California Regional Water Quality Control Board Page 5 August 10, 2011 407609.C1.03

boring locations and the 2002 groundwater analytical results for MTBE are provided in Attachment B.

The results of the 2002 additional assessment were used in designing an expansion of the groundwater remediation system in this area. The expansion to the remediation system was implemented in April 2003 to address MTBE detected in groundwater downgradient (northwest) of the 24-inch block valve. The expansion consisted of installing a pump in existing well GMW-36 near the block valve and installing and equipping two additional extraction wells (GMW-SF-9 and GMW-SF-10) in its downgradient vicinity.

In June 2007, Parsons collected discrete-depth groundwater samples at one location (B-122) in the vicinity of the offsite 24-inch block valve as part of an investigation on behalf of the DLA Energy and KMEP (Parsons, 2007). Parsons collected and analyzed groundwater samples from three discrete-depth intervals between 25 and 42 feet. Analytical results for groundwater samples indicated elevated concentrations of BTEX, TPH-g, and MTBE in all of the samples collected from B-122. The cumulative results of historical groundwater assessments and monitoring adequately delineated the lateral extent of fuel constituents in groundwater in the vicinity of the offsite 24-inch block valve except in the area east of boring B-122. Therefore, in the approved 2008 work plan (Geomatrix, 2008), Geomatrix proposed additional assessment near B-122 to delineate the lateral extent of elevated concentrations of fuel constituents in groundwater east of B-122.

### **Offsite Assessments**

During July 2008, SFPP conducted an assessment to evaluate the presence and depth of the Bellflower aquitard in the offsite area near the 24-inch block valve using cone penetrometer test (CPT) profiling at two locations: CPT-1 and CPT-2. In addition, the vertical extent of dissolved fuel constituents was delineated to the top of the interpreted aguitard at these two locations. Discrete-depth groundwater samples were collected from additional borings drilled at the general locations of CPT-1 and CPT-2 during July 2008. Samples were collected from three discrete intervals between 25 and 47 feet bgs at each location. CPT-1, located approximately 150 feet northeast of the block valve (approximately 80 feet southeast of GMW-O-18), was selected to delineate the eastern extent of dissolved fuel constituents (east of boring B-122) in the offsite 24-inch block valve area. Target analytes included TPH-g, TPH quantified using a site fuel product (TPH-fp), BTEX, MTBE, and other fuel oxygenates including TBA, di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), and tertiary amyl methyl ether (TAME). None of these analytes were detected in any of the three discrete-depth groundwater samples collected at CPT-1. Thus, the eastern extent of dissolved fuel constituents in the offsite 24-inch block valve area was adequately delineated. CPT-2, located approximately 185 feet north-northwest (hydraulically downgradient) of the block valve (approximately 80 feet northwest of GMW-O-18) and within an area of known impact to groundwater, was selected to delineate the vertical extent of dissolved fuel constituents by the confirmed presence of low or nondetected concentrations of target analytes or the top of the Bellflower aquitard in the immediate vicinity of the offsite 24-inch block valve. Elevated concentrations of TPH-g, MTBE, and/or TBA were reported in one or

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more of the three groundwater samples collected at CPT-2 to a depth of approximately 47 feet, near the base of the uppermost groundwater zone. Additional details of this investigation can be found in the report titled, *Additional Off-Site Assessment Report Off-Site 24-inch Block Valve Area* (AMEC, 2008).

In 2009, SFPP conducted a supplemental assessment at a location (GB-18) near previous sampling location CPT-1 to characterize the physical properties of the Bellflower aquitard and to assess the potential that petroleum hydrocarbons detected in the uppermost groundwater zone at previous sampling location CPT-2 could have impacted groundwater in the Exposition aquifer beneath the Bellflower aquitard in the area. Continuous core soil samples collected during drilling confirmed the depth and presence of the interpreted Bellflower aquitard from approximately 47 to 81 feet bgs. A groundwater sample was collected from the upper portion of the Exposition aquifer at depth intervals between 86 and 90 feet bgs. The analytical results of the discrete-depth groundwater sample show no impacts to groundwater in the Exposition aquifer. Physical and hydraulic property testing was conducted using soil samples collected from a range of sediment types within the Bellflower aquitard. The results of these tests indicate the sediment samples were composed primarily of low-permeability silt and clay. Additional details of this investigation can be found in the report titled, *Supplemental Vertical Delineation Off-Site 24-inch Block Valve Area* (AMEC, 2010b).

## **Groundwater Monitoring**

SFPP is currently performing groundwater monitoring and remediation in the southeastern area to address the petroleum hydrocarbons in soil and groundwater associated with the 24-inch block valve. Groundwater, hydrocarbon product, and soil vapor are extracted from three TFE wells (GMW-O-15, GMW-O-18, and GMW-36). The extracted liquids and vapors are treated through the centralized treatment system at the south-central area of the facility. Groundwater monitoring includes monthly monitoring for six wells (GMW-36, GMW-O-15, GMW-O-16, GMW-O-18, GMW-O-19, and PZ-5). Recent monitoring results indicate that TPH, BTEX, MTBE, and TBA are present in southeastern offsite wells GMW-O-18 and PZ-5 (Table 1). Depth to product measurements were not collected during June 2011 (since the extraction wells were operating); however, free product was reported in wells GMW-36 and GMW-O-15 during the April 2011 semiannual sampling event when the extraction system was shut down. The free product thicknesses for these wells were 1.93 feet and 0.02 foot, respectively. Free product was not detected in the other four southeastern area wells in April 2011. TFE in the southeastern area is ongoing and groundwater quality will continue to be monitored on a routine basis.

# Objectives

Previous assessments indicate that petroleum hydrocarbons have impacted the soil and groundwater in the vicinity of the offsite 24-inch block valve. The lateral and vertical extent of fuel constituents in vadose zone soil has been defined and the impacted soil was limited

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to the immediate vicinity of the release area. Additional groundwater assessments have defined the vertical and eastern extent of contamination in the offsite 24-inch block valve area. The current investigation was performed in response to RWQCB's request to conduct a step-out investigation in the vicinity of well GMW-O-18 due to an apparent increase in petroleum hydrocarbons at wells PZ-5 and GMW-O-18 during past groundwater sampling events.

The objective of the current investigation was to delineate and further assess the potential presence and concentrations of dissolved-phase TPH, BTEX, and fuel oxygenates in groundwater in the vicinity of offsite well GMW-O-18. Concentrations of dissolved phase constituents can vary with extraction pump operation and seasonal changes in groundwater levels; however, the potential migration of contaminants to the offsite area facilitated the need to collect additional groundwater data.

# Approach and Methods

The following field activities were implemented to meet the objective of this investigation: drilling, coring, lithologic logging, and discrete-depth soil and groundwater sampling at five locations (GB-19 to GB-23) (Figures 2 and 3) using direct-push methods. Three of the sample locations (GB-19, GB-20, and GB-21) were intended to evaluate the extent of TPH and VOCs in the southeast area; two locations (GB-22 and GB-23), initially contemplated as potential contingency step-out locations, were included to evaluate the extent of TBA detected in well GMW-39.

# **Pre-Field Activities**

Prior to commencing field activities, CH2M HILL performed the following work:

- Obtained well/boring construction permits for drilling and groundwater sampling from the County of Los Angeles Department of Public Health Environmental Health Division (Attachment C).
- Obtained a temporary access agreement from the City of Norwalk (Attachment D).
- Updated the existing site-specific Health and Safety Plan to incorporate the planned fieldwork.
- Notified Underground Service Alert (USA) of the planned field activities and met with utility companies identified by USA.
- Retained Spectrum Geophysics of Burbank, California, a private utility locator, and performed a geophysical survey to screen the planned drilling locations for potential underground utilities or buried objects.

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# Drilling and Lithologic Logging

CH2M HILL retained Gregg Drilling and Testing, Inc. (Gregg) of Signal Hill, California, to conduct drilling, coring, and groundwater sampling using direct-push equipment and methods. Prior to drilling, the boring locations were cleared to a depth of approximately 10 feet bgs by Gregg using hand-auger methods to check for the presence of subsurface obstructions.

Each boring was continuously cored to the top of the Bellflower aquitard and described based on visual manual procedures of American Society for Testing and Materials (ASTM) D2488 under the direction of a State of California Licensed Professional Geologist. Color, moisture content, grain size, and other pertinent soil characteristics were recorded on boring logs, and soil was screened in the field using a photoionization detector (PID) for potential presence of VOCs.

Downhole drilling equipment and nondisposable sampling equipment were steam-cleaned or cleaned with an Alconox-water solution and rinsed twice with potable water prior to each use.

# Discrete-Depth Soil and Groundwater Sampling and Laboratory Analysis

Discrete-depth soil samples were collected every 10 feet to the top of the Bellflower aquitard. In addition, soil samples were collected from approximately 5 feet above and below the water table. Sampling depth intervals for groundwater samples were selected based on the lithologic conditions in the field.

Three discrete-depth groundwater samples were collected from each location. To minimize the potential for cross-contamination, discrete-depth groundwater samples were collected from separate borings drilled within a few feet of each other at each of the five general locations. For collection of groundwater samples, the direct-push rig utilized a stainless steel Hydropunch sampler with an expendable stainless steel point and a 4-foot-long, 0.010-inch slotted polyvinyl chloride (PVC) screen. A new screen was used for each groundwater sample. Groundwater samples were collected through the Hydropunch rod using a stainless steel bailer. All downhole and sampling equipment was steam-cleaned prior to each use.

For quality assurance/quality control (QA/QC) purposes, field duplicates for field samples were collected at a frequency of 1 for each 10 samples. Matrix spike primary and duplicate samples were collected at a frequency of 1 for each 20 samples. An equipment blank sample was collected for each piece of nondedicated sampling equipment each day, and a laboratory-provided trip blank was maintained with each ice-chilled cooler containing samples.

Samples were submitted under chain-of-custody procedures to Alpha Analytical Laboratory of Sparks, Nevada, certified under the California Environmental Laboratory Accreditation Program. Soil and groundwater samples were analyzed for TPH-g and TPH-fp using United States Environmental Protection Agency (EPA) Method 8015M; and BTEX and fuel Mr. Paul Cho, California Regional Water Quality Control Board Page 9 August 10, 2011 407609.C1.03

oxygenates using EPA Method 8260B. The trip blanks were analyzed for BTEX and fuel oxygenates only.

# Boring Destruction and Survey

After completion of lithologic logging and groundwater sampling, each boring was destroyed by backfilling with bentonite cement placed through a tremie pipe. The ground surface at each boring location was repaired to reasonably match surrounding conditions.

Following completion of the field investigation, the location (northing and easting coordinates) and ground surface elevation of the soil borings were surveyed in accordance with RWQCB GeoTracker requirements by Dulin and Boynton of Signal Hill, California, a California-licensed land surveyor. The surveyor's report is provided in Attachment E.

# **Investigation-Derived Waste Management**

Investigation-derived waste (IDW) generated during field activities included soil cuttings, decontamination water, and disposable sampling supplies and personal protective equipment (e.g., nitrile gloves). Soil cuttings and decontamination rinse water were containerized in Department of Transportation (DOT)-approved 55-gallon drums. Rinse water was disposed of at SFPP's onsite groundwater treatment system for treatment and discharge. The drum containing soil was labeled and temporarily stored at the treatment pad, pending analytical results for waste classification and eventual disposal by KMEP's waste hauling contractor (Belshire Environmental Services). The soil IDW was profiled as nonhazardous waste and transported offsite to U.S. Ecology at Highway 95 South, Beatty, Nevada 89003. A copy of the nonhazardous waste manifest is included in Attachment F. General refuse such as disposable sampling supplies and used gloves were disposed of onsite as municipal trash.

# Findings

The following sections describe the findings of this investigation at the five locations (GB-19 to GB-23), including the lithology encountered during drilling, and analytical results for soil and groundwater samples.

# Lithology

The lithology encountered during this investigation within the uppermost zone overlying the Bellflower aquitard consisted of poorly graded sand, silty sand, clayey sand, and sandy silt. Groundwater within the uppermost zone was encountered at approximately 27 to 28 feet bgs; this depth to groundwater was consistent with measurements collected from nearby monitoring wells during the January 2011 monthly monitoring event. The top of the Bellflower aquitard was encountered at approximately 47 feet bgs, which is consistent with previous investigations conducted by AMEC. The interpreted Bellflower aquitard consists of moist fine-grained units of clays and silts interbedded with relatively coarser-grained materials (silty sand and clayey sand). Sediments corresponding to the Bellflower aquitard

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were encountered from 47 to 61 feet bgs, the maximum depth of the boreholes. Lithologic descriptions are presented in the boring logs provided in Attachment G.

# Soil Analytical Results

Table 2 and Figure 2 show the analytical results for the discrete-depth soil samples collected for this step-out investigation. Laboratory analytical reports are included in Attachment H. MTBE was detected in one discrete-depth sample at each of three soil borings: GB-19 (20 micrograms per kilogram [ $\mu$ g/kg] at 10.5 to 11 feet bgs), GB-21 (40  $\mu$ g/kg at 60 to 60.5 feet bgs), and GB-22 (23  $\mu$ g/kg at 53 to 53.5 feet bgs). TPH-fp was detected in two soil borings (GB-22 and GB-23) at depths less than approximately 22 feet bgs. The maximum TPH-fp concentration was reported in boring GB-22 (32  $\mu$ g/kg). TBA was detected at GB-23 (2,200  $\mu$ g/kg) at a sample depth of 50 to 50.5 feet bgs. All other target analytes for the remaining discrete-depth soil samples were not detected.

# Groundwater Analytical Results

Table 3 and Figure 3 show analytical results for the discrete-depth groundwater samples collected for this step-out investigation and also the analytical results for groundwater monitoring samples collected during the two recent sentry events (July 2010 and January 2011) and two recent semiannual events (October 2010 and April 2011). The results of these recent groundwater monitoring events are provided in reports by Parsons (2011) and CH2M HILL (2011). The TBA concentration contour lines shown in Figure 3 interpret both the depth-discrete groundwater data collected for this step-out investigation and the data from the April 2011 semiannual sampling event. Figure 3 also presents the water table elevation contour lines previously interpreted for the April 2011 semiannual sampling event.

Laboratory analytical reports for the discrete-depth groundwater samples are included in Attachment H. TPH-g was detected in boring GB-23 (100 micrograms per liter [ $\mu$ g/L]) at a sample depth of 41 to 45 feet bgs. TPH-fp was detected in boring GB-20 (220  $\mu$ g/L) at a sample depth of 31 to 34 feet bgs. TBA was detected in one discrete-depth sample at each of three soil borings: GB-21 (140  $\mu$ g/L at 42.5 to 46.5 feet bgs), GB-22 (110  $\mu$ g/L at 41 to 45 feet bgs), and GB-23 (2,400  $\mu$ g/L at 41 to 45 feet bgs). All other target analytes for the remaining discrete-depth groundwater samples were not detected.

# **Quality Assurance/Quality Control**

During this investigation, six equipment blanks and five trip blank samples were collected to assess data reliability. No VOCs, TPH-g, or TPH-fp were detected at or above laboratory reporting limits in the equipment or trip blank samples.

Analytical data accuracy was evaluated by examining the method blanks, project-specific matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent differences (RPDs), laboratory control sample (LCS) percent recoveries, and surrogate percent recoveries. The overall accuracy of the project-specific MS/MSD percent recoveries,

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RPD values, LCS percent recoveries, and surrogate recoveries was acceptable with respect to samples reporting laboratory detections.

# Summary and Conclusions

The findings of this step-out investigation in the vicinity of well GMW-O-18 are summarized as follows.

- The lithology encountered in borings GB-19 to GB-23 was generally consistent with previous investigations conducted in 2008 and 2009 and confirmed the presence, depth, and composition of the Bellflower aquitard in the offsite 24-inch block valve area. The top of the Bellflower aquitard was encountered at approximately 47 feet bgs in each of the completed borings (very similar to lithologic profiles from CPT borings CPT-1 and CPT-2, and boring GB-18). The Bellflower aquitard consists of predominantly fine-grained materials interbedded with some relatively coarser-grained materials. As described above, the Bellflower aquitard continues to approximately 81 feet bgs based on continuous-core soil samples collected at GB-18 (near previous CPT-1) during the 2009 supplemental investigation in the southeast area (AMEC, 2010b).
- TPH, BTEX, and fuel oxygenates were not detected in soil or groundwater samples from the uppermost groundwater zone in the two easternmost offsite borings (GB-19 and GB-20), except for MTBE detected in one shallow soil sample above the water table (GB-19: 20 µg/kg at 10.5 to 11 feet bgs) and TPH-fp in one discrete-depth groundwater sample (GB-20: 220 µg/L at 31 to 34 feet bgs). The only detected constituents at the other offsite location (GB-21) consist of MTBE in soil below the water table (40 µg/kg at 60 to 60.5 feet bgs) and TBA in one discrete-depth groundwater sample (140 µg/L at 42.5 to 46.5 feet bgs). As shown in Figure 3, the horizontal groundwater gradient from these three offsite sample locations (GB-19, GB-20, and GB-21) is toward the northwest in an onsite direction, which would carry any offsite contamination onsite that is not within the capture zone established by TFE at wells GMW-36, GMW-O-15, and GMW-O-18. The low levels of detected constituents and onsite groundwater flow direction indicate that the lateral extent of dissolved-phase constituents to the east is defined.
- TPH, MTBE, and TBA were detected in either soil or groundwater at the two onsite borings (GB-22 and GB-23). The detection of these constituents at the two onsite locations is consistent with the interpretation of the TPH, MTBE, and TBA concentrations in groundwater from the recent sentry and semiannual monitoring events. The TBA concentration contour lines shown in Figure 3 are similar to the contour lines previously interpreted for the April 2011 semiannual monitoring event, except that the contours are now interpreted to extend onsite further toward the northwest. This interpretation of the TBA concentration contour lines is consistent with the horizontal groundwater gradient direction shown in Figure 3, which is toward the northwest in an onsite direction.

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• As described above in the Background section, analytical results from a discrete-depth groundwater sample collected while drilling at GB-18 from the upper portion of the Exposition aquifer showed no impacts to groundwater in the Exposition aquifer (AMEC, 2010b).

No additional step-out samples are proposed since the extent of dissolved-phase contaminants in the eastern offsite portion of the southeastern area plume (Holifield Park area) has been defined. Groundwater monitoring in the southeastern area will continue and groundwater conditions will continue to be evaluated as additional groundwater monitoring and remediation system operation data are obtained.

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If you have any additional questions regarding this investigation, please contact me at (213) 228-8271, or Mr. Stephen Defibaugh, KMEP's Remediation Project Manager, at (714) 560-4802.

Sincerely,

CH2M HILL, Inc.

Dant RAM

Dan Jablonski, R.E.A. Project Manager

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Mark Wuttig, P.G. Senior Hydrogeologist

### Tables:

Table 1: Summary of Groundwater Analytical Data - SE Area Wells

Table 2: Summary of Soil Analytical Data

Table 3: Summary of Hydropunch Groundwater Analytical Data

### **Figures:**

Figure 1: Site Location Map

Figure 2: Soil Analytical Results from SE Investigation

Figure 3: Hydropunch Groundwater Analytical Results from SE Investigation

### Attachments:

Attachment A: 1994 Soil Sample Analytical Results Attachment B: 2002 Groundwater Analytical Results Attachment C: LACDPH Well/Boring Construction Permits Attachment D: City of Norwalk Access Agreement Attachment E: Survey Results Attachment F: Nonhazardous Waste Manifest Attachment G: Boring Logs Attachment H: Laboratory Analytical Reports

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# Tables

### SFPP, L.P.

Sample ID	Date	TPH-g	TPH-fp	Benzene	Toluene	Ethyl- benzene	Total Xvlenes <sup>1</sup>	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
GMW-36	07/10/97	430											
	01/09/98	4,000		22	21	6.1	100	<5	7,700				
	05/20/98	1,400		<0.3	<0.3	<10	<20	<0.5	19,600				
	11/17/98	7,900	6,650	2,100	1,370	70	650	<50	34,800				
	05/07/99	2,800		<10	<10	<10	<10	<25	14,000				
	11/18/99	51,000	22,000	8,100	5,600	<250	1,770	<250	47,000				
	05/17/00	59,000	53,000	14,000	6,700	480	4,100	<130	45,000				
	11/30/00	110,000	66,000	20,000	19,000	1,600	8,100	<0.5	13,000				
	02/06/01	75,000	55,000	18,000	13,000	1,400	6,100	<50	9,100				
	05/10/01	12,000	5,100	3,700	2,500	420	1,730	<0.5	1,600				
	09/19/01	21,000	37,000	5,800	3,600	580	2,080	<13	1,000				
	11/06/01	63,000	40,000	16,000	13,000	1,600	7,700	<25	3,200				
	01/30/02	130,000	68,000	21,000	20,000	1,700	9,000	<125	42,000				
	04/10/02	150,000	49,000	25,000	22,000	1,800	10,000	<50	67,000				
	07/30/02	81,000	110,000	28,000	29,000	2,200	11,800	<50	37,000				
	12/06/06	32,000	10,000	5,300	4,300	480	4,300	<50	1,600				
	03/13/07	54,000	7,200	9,400	12,000	1,100	8,200	<200	3,800				
	05/05/07	69,000	11,000	9,800	11,000	1,200	8,000	<200	3,900				
	08/29/07	30,000	9,800	4,100	4,200	420	4,500	120	890				
	02/20/08	34,000	9,100	3,900	6,000	750	4,600	<50	43				
	04/16/08	42,000	11,000	5,200	8,300	940	6,200	<200	<100				
	10/16/08	17,000	32,000	2,100	2,000	160	2,300	<20	26				
	07/22/09	24,000	15,000	3,800	5,400	720	3,380	<50	28	<500	<50	<50	<50
	03/16/10	8,000	22,000	830	1,100	140	700	<10	16	690	<10	<10	<10
	04/16/10	4,200	25,000	850	150	89	200	<5.0	11	3,700	<5.0	<5.0	<5.0
	05/24/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06/25/10 <sup>2,3</sup>	14,000	43,000	1,100	1,500	160	1,260	<20	11	2,700	<20	<20	<20
	07/13/10 <sup>2</sup>	500	4,500	49	51	4.9	68	<0.5	0.91	340	<1.0	<1.0	<1.0
	08/12/10 <sup>2</sup>	9,200	2,200	1,400	1,100	52	1,580	<10	18	1,600	<10	<10	<10
	09/20/10 <sup>2</sup>	3,300	5,200	130	18	36	260	<1.0	130	13,000	<1.0	<1.0	1.6
	10/5/2010 <sup>2</sup>	15,000	3,100	2,500	1,300	390	1,790	<20	30	1,300	<20	<20	<20
	11/23/10	31,000	21,000	5,100	3,400	890	3,900	<40	51	470	<40	<40	<40
	12/22/10	63,000	73,000	6,700	9,600	1,700	8,300	<50	28	<500	<50	<50	<50
	01/12/11	320,000	130,000	4,600	2,900	1,400	13,300	<200	<100	<2000	<200	<200	<200
	02/24/11 2	1,600	3,900	110	77	19	188	<1.0	3	2,200	<1.0	<1.0	<1.0
	03/23/11 2	3,200	2,900	360	340	28	360	<3.0	7.6	2,400	<3.0	<3.0	<3.0
	04/29/11 2	1,500	10,000	75	67	6.8	113	<0.5	3.3	1,700	<1.0	<1.0	<1.0
	05/13/11 2	13,000	11,000	2,300	2,100	93	1,640	<20	43	<200	<20	<20	<20
	06/22/11 <sup>2</sup>	420	1,500	24	12	2.8	29.3	<0.5	110	5,900	<1.0	<1.0	<1.0

SFPP, L.P.

Sample ID	Date	TPH-g	TPH-fp	Benzene	Toluene	Ethyl-	Total	1,2-DCA	MTBE	ТВА	DIPE	ETBE	TAME
GMW-O-15	10/16/08	1 700	2 800	550	3	37	34.1	د5	110				
	03/16/10 2	530	8,900	10	11	0.64	27	<0.50	400	<10	<10	<10	19
	04/16/10	6 700	62 000	1 700	54	120	176	<10	1 300	1 800	<10	<10	11
	05/25/10	650	5 600	82	16	8.4	44	<2.0	180	1,000	<2.0	<2.0	<2.0
	06/25/10 2	490	900	96	97	9.6	33.4	<10	240	2 900	<10	<1.0	1 1
	07/13/10 <sup>2</sup>	580	250	110	7.5	11	33.7	<1.0	300	5 100	<1.0	<1.0	1.1
	08/12/10 2	710	370	120	4 1	10	43	<1.0	260	5 300	<1.0	<1.0	1.5
	09/20/10 2	620	500	120	3.3	13	29.4	<1.0	230	6,000	<1.0	<1.0	1.4
	10/5/2010 <sup>2</sup>	14 000	6,000	1 800	280	.0	1 120	<20	3 200	3,000	<20	<20	35
	11/23/10												
	12/22/10	28 000	19 000	3 900	610	850	4 200	<40	1 900	1 300	<40	<40	<40
	01/12/11	12 000	15,000	1,300	49	280	1 030	<20	430	12 000	<20	<20	<20
	02/24/11 <sup>2</sup>	12,000	10,000	700	450	310	1,770	<1.0	970	4.100	<1.0	<1.0	20
	03/23/11 2	2,400	4.300	210	47	39	250	<2.0	310	3.600	<2.0	<2.0	5.2
	04/29/11 2	1.200	1.500	250	27	27	154	<2.0	350	3.900	<2.0	<2.0	2.4
	05/13/11 2	1.300	1,600	200	18	22	127	<2.0	350	6.600	<2.0	<2.0	3.6
	06/22/11 <sup>2</sup>	1.800	1.200	190	95	34	219	<1.0	310	6.800	<1.0	<1.0	1.8
GMW-O-16	11/27/96			570	67	14	360	<5	120				
	07/17/97	<100		< 0.5	<0.5	<0.5	<1	< 0.5	310				
	01/06/98	<100		<0.5	<0.5	< 0.5	<1.5	<0.5	<5				
	01/09/98	4.600											
	05/20/98	<300		<0.5	<0.5	<0.5	<1	<0.5	76				
	11/13/98	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.7				
	05/07/99	<500		0.66	<0.5	<0.5	0.72	<1	7.6				
	11/18/99	<416	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	05/17/00	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.8				
	11/30/00	<300	<100	0.8	<0.5	<0.5	<0.5	<0.5	0.6				
	05/10/01	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	04/10/02	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	10/22/02	<300	<100	1.6	0.98	<0.5	<0.5	<0.5	<0.5				
	04/09/03	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	10/07/03	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	04/22/04	<50	3,600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	07/20/04		<100										
	11/02/04	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	05/05/05	92	<100	1.6	<0.5	<0.5	<0.5	<0.5	110				
	08/02/05	57	<100	1.3	<0.5	<0.5	<0.5	<0.5	93				
	11/02/05	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	57				
	02/28/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	5.3				
	05/04/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	6.3				
	09/19/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.57				
	12/05/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	05/05/07	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				

SFPP, L.P.

Sample ID	Date	TPH-g	TPH-fp	Benzene	Toluene	Ethyl-	Total Xylenes <sup>1</sup>	1,2-DCA	MTBE	ТВА	DIPE	ETBE	TAME
GMW-O-16	11/14/07	<50	1 400	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
(Cont'd)	02/07/08	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.68				
(00000)	04/16/08	<50	<100	<0.5	1.2	0.59	5.5	<0.5	0.63				
	10/14/08	<50	<100	< 0.5	<0.5	<0.5	0.6	<0.5	0.65				
	04/23/09	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.55	<10	<1	<1	<1
	10/21/09	<50	250	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
	03/16/10	<50	140	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
	04/16/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
	05/26/10	<50	120	<0.50	<0.50	<0.50	<0.50	<0.50	0.88	<10	<1.0	<1.0	<1.0
	06/22/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	<10	<1.0	<1.0	<1.0
	07/13/10	<50	<100	0.73	<0.5	<0.5	<0.5	<0.5	1.9	<10	<1.0	<1.0	<1.0
	08/12/10	<50	<100	0.50	<0.5	<0.5	<0.5	<0.5	2.3	<10	<1.0	<1.0	<1.0
	09/20/10	<50	170	0.69	<0.5	<0.5	<0.5	<0.5	3.1	<10	<1.0	<1.0	<1.0
	10/06/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<10	<1.0	<1.0	<1.0
	11/16/10	<50	160	<0.5	<0.5	<0.5	<0.5	<0.5	4	<10	<1.0	<1.0	<1.0
	12/22/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	2	<10	<1.0	<1.0	<1.0
	01/11/11	<50	<100	0.52	<0.5	<0.5	<0.5	<0.5	0.94	<10	<1.0	<1.0	<1.0
	02/24/11	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.67	<10	<1.0	<1.0	<1.0
	03/23/11	<50	100	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	<10	<1.0	<1.0	<1.0
	04/12/11	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<10	<1.0	<1.0	<1.0
	05/13/11	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1.8	<10	<1.0	<1.0	<1.0
	06/22/11	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1.9	<10	<1.0	<1.0	<1.0
GMW-O-18	11/26/96			<10	<10	<10	<30	<10	10,000				
	11/27/96			<10	66	<10	<30	<5	120				
	07/11/97	<100		<3	<3	<3	<3	<3	3,000				
	01/07/98	<100		<5	<5	<5	<15	<5	3,200				
	05/21/98	2,000		<100	<100	<100	<200	<100	5,600				
	11/17/98	543	<100	<0.5	1	<0.5	2.6	<0.5	1,420				
	05/06/99	2,700		<5	<5	<5	<5	<13	15,000				
	11/18/99	2,900	<100	<13	<12.5	<12.5	<12.5	<13	6,700				
	05/19/00	3,500	<100	<25	<25	<25	<25	<25	10,000				
	11/02/05	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1.4				
	05/09/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	2.1				
	12/07/06	<100	<100	<0.5	<0.5	<0.5	<0.5	<1	0.65				
	05/04/07	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.62				
	11/15/07	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1.6				
	04/15/08	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	10/15/08	<200	<100	<1	<1	<1	<1	<2	<1				
	04/23/09	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1	140	<1.0	<1.0	<1.0
	10/21/09	2,400	680	170	440	17	410	<5	490	480	<5	<5	<5
	03/16/10	<50	<100	0.60	1.3	<0.50	1.77	<0.50	4.5	550	<1.0	<1.0	<1.0
	04/16/10	1,300	6,600	0.67	<0.50	3.1	12.9	<0.50	1.2	2,400	<1.0	<1.0	<1.0
	05/25/10	110	540	<0.50	<0.50	<0.50	<0.50	<1.0	2.9	6,500	<1.0	<1.0	<1.0

SFPP, L.P.

Sample ID	Date	TPH-g	TPH-fp	Benzene	Toluene	Ethyl-	Total	1,2-DCA	MTBE	ТВА	DIPE	ETBE	TAME
GMW-0-18	06/25/10 2	74	140	<0.50	<0.50			<0.50	0.50	8 300	<10	<10	<10
(Cont'd)	07/14/10 <sup>2</sup>	110	<100	<0.50	<0.50	<0.5	<0.50	<0.5	0.85	11 000	<1.0	<1.0	<1.0
(001110)	08/12/10 <sup>2</sup>	220	<100	0.64	<0.5	<0.5	<0.5	<1.0	0.93	15,000	<1.0	<1.0	<1.0
	09/20/10 <sup>2</sup>	290	<100	1.1	<0.5	<0.5	0.55	<1.0	1.2	23.000	<1.0	<1.0	<1.0
	$10/5/10^2$	4.000	1.100	1.200	420	23	231	<10	670	2.600	<10	<10	<10
	11/16/10 <sup>2</sup>	2,000	120	<0.5	< 0.5	< 0.5	< 0.5	<1.0	0.53	21,000	<1.0	<1.0	<1.0
	12/22/10												
	01/12/11 <sup>2</sup>	3,000	130	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	29,000	<2.0	<2.0	<2.0
	02/24/11 <sup>2</sup>	1,400	2,100	60	31	19	123	<0.5	380	1,600	<1.0	<1.0	3.9
	03/23/11 <sup>2</sup>	110	230	6	1.4	1.1	8.1	<0.5	2.9	3,300	<1.0	<1.0	<1.0
	04/29/11 <sup>2</sup>	<50	120	3.7	<0.5	<0.5	1.7	<0.5	7.5	780	<1.0	<1.0	<1.0
	05/13/11 <sup>2</sup>	<100	230	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<1.0	<1.0	<1.0
	06/22/11 <sup>2</sup>	7,500	37,000	<0.5	<0.5	<0.5	436	<1.0	5.5	3,200	<1.0	<1.0	<1.0
GMW-O-19	11/25/96			<0.5	<0.87	2.8	5.1	<0.5	<5				
	07/16/97	<100		<0.5	<0.5	<0.5	<1	<0.5	<5				
	01/06/98	<100		<0.5	<0.5	<0.5	<1.5	<0.5	<5				
	05/20/98	<300		<0.5	<0.5	<0.5	<1	<0.5	2				
	11/12/98	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	05/06/99	<500		<0.5	<0.5	<0.5	<0.5	<1	0.51				
	11/18/99	<416	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.5				
	05/17/00	<300	180	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	09/19/01	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	11/07/01	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	01/30/02	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	04/09/03	<50	500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	08/01/03	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	10/07/03	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	04/22/04	<50	1,400	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	07/20/04		<100										
	11/02/04	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	05/05/05	510	110	110	<0.5	17	24.5	<1	150				
	08/02/05	160	<100	2.1	<0.5	1.2	<0.5	<0.5	19				
	11/02/05	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	02/28/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	05/04/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	12/05/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	05/05/07	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	11/15/07	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	04/16/08	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	10/14/08	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
	04/23/09	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
	10/20/09	<50	<200	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
	03/15/10	<50	<100	<0.50	<0.50	<0.50	< 0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0

SFPP, L.P.

Sample ID	Date	TPH-g	TPH-fp	Benzene	Toluene	Ethyl-	Total	1,2-DCA	MTBE	ТВА	DIPE	ETBE	TAME
GMW-O-19	04/16/10	<50	<100	<0.50	<0.50	<0.50		<0.50	<0.50	<10	<10	<10	<10
(Cont'd)	05/26/10	<50	<100	<0.00	<0.50	<0.50	<0.50	<0.00	<0.50	<10	<1.0	<1.0	<1.0
(conta)	06/22/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
	07/13/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
	08/12/10	<50	<100	0.52	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<1.0	<1.0
	09/20/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
	10/06/10	<50	340	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<10	<1.0	<1.0
	11/16/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
	12/22/10	<50	<100	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<10	<1.0	<1.0	<1.0
	01/11/11	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
	02/24/11	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
	03/23/11	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
	04/12/11	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
	05/13/11	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
	06/22/11	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0
PZ-5	10/07/03	6,900	<100	11	<10	<10	<10	<20	9,100				
	05/05/05	<50	<100	0.87	<0.5	<0.5	<0.5	<0.5	43				
	11/02/05	1,200	<100	<2.5	<2.5	<2.5	<2.5	<5.0	2,100				
	02/28/06	160	<100	<0.5	<0.5	<0.5	<0.5	<1	380				
	05/04/06	1,200	<100	<2	<2	<2	<2	<4	1,900				
	09/19/06	480	<100	<1	<1	<1	<1	<2	1,200				
	12/07/06	480	<100	<1.5	<1.5	<1.5	<1.5	<3	960				
	03/13/07	320	<100	<1	<1	<1	<1	<2	690				
	05/04/07	400	<100	<0.5	<0.5	<0.5	<0.5	<1	610				
	08/29/07	380	<100	<1	<1	<1	<1	<2	480				
	11/15/07	370	<100	<0.5	<0.5	<0.5	<0.5	<1	470				
	02/20/08	940	560	<1	<1	<1	<1	<2	750				
	04/15/08	750	330	<1	<1	<1	<1	<2	740				
	08/12/08	1,500	370	<2	<2	<2	<2	<4	2,000				
	10/16/08	<3,000	210	22	<15	<15	<15	<30	1,900				
	02/24/09	1,000	440	61	<1	<1	<1	<2	1,200	37,000			
	02/24/09 4	2,400	1,000	71	<100	<100	<100	<50	1,400	47,000	<200	<200	<200
	04/23/09	1,200	760	250	<2	5.7	<2	<4	1,200	35,000	<4	<4	<4
	07/22/09	3,800	1,800	2,000	20	98	77	<5	800	54,000	<5	<5	<5
	10/23/09	2,900	1,300	1,100	18	53	69	<10	500	50,000	<10	<10	<10
	03/16/10	1,700	890	370	2.1	33	9.4	<4.0	350	58,000	<4.0	<4.0	<4.0
	04/16/10	1,600	1,100	110	<2.5	9.7	4.6	<5.0	340	91,000	<5.0	<5.0	<5.0
	05/27/10	3,200 J	1,300	1,100	<25	66	<25	<50	360	69,000	<50	<50	<50
	06/22/10	3,600	900	1,500	<10	96	<10	<20	450	73,000	<20	<20	<20
	07/14/10	4,600	1,300	1,900	<10	180	<10	<20	530	82,000	<20	<20	<20
	08/12/10	9,100	1,600	4,400	<5.0	340	50.6	<10	490	64,000	<10	<10	<10
	09/20/10	8,500	1,800	4,200	2.8	110	16.8	<4.0	370	43,000	<4.0	<4.0	<4.0

SFPP, L.P.

Defense Fuel Support Point Norwalk

Norwalk, California

Sample ID	Date	TPH-g	TPH-fp	Benzene	Toluene	Ethyl- benzene	Total Xylenes <sup>1</sup>	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
PZ-5	10/07/10	6,300	1,000	3,100	<20	56	<20	<40	150	40,000	<40	<40	<40
(Cont'd)	11/16/10	3,400	1,600	1,600	<10	10	15	<20	130	20,000	<20	<20	<20
	12/22/10	3,400	1,700	1,600	<10	<10	<10	<20	100	22,000	<20	<20	<20
	01/12/11	4,000	1,200	1,500	<5.0	<5.0	<5.0	<10	130	38,000	<10	<10	<10
	02/24/11	1,400	400	390	<2.0	<2.0	3.8	<4.0	84	27,000	<4.0	<4.0	<4.0
	03/23/11	1,100	820	210	<1.0	<1.0	2.4	<2.0	140	29,000	<2.0	<2.0	<2.0
	04/13/11	830	520	59	<1.0	<1.0	<1.0	<2.0	120	28,000	<2.0	<2.0	<2.0
	05/13/11	2,000	830	710	4.7	25	25.8	<5.0	140	34,000	<5.0	<5.0	<5.0
	06/22/11	4,500	1,100	960	9	30	80	<10	100	33,000	<10	<10	<10

#### Notes

Results are reported in micrograms per liter (µg/L).

1. The total xylenes result is the sum of m,p-xylenes and o-xylenes when detected.

2. Groundwater sample collected through a sampling port.

3. Free product was present.

4. Split groundwater sample analyzed by Calscience Environmental Laboratories, Inc. Results were evaluated to laboratory method detection limits.

#### Abbreviations

1,2-DCA = 1,2-dichloroethane

MTBE = methyl tertiary butyl ether

TBA = tertiary butyl alcohol

DIPE = di-isopropyl ether

ETBE = ethyl tertiary butyl ether

NS = well not sampled due to presence of free product

<5.0 = not detected at or above the laboratory reporting limit shown

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

--- = not analyzed or not applicable

TAME = tertiary amyl methyl ether

TPH-fp = total extractable petroleum hydrocarbons quantified using a site fuel product standard

TPH-g = total purgeable petroleum hydrocarbons quantified using a gasoline standard (C4-C13)

#### TABLE 2 Summary of Soil Analytical Data Southeastern Area Step-Out Investigation SFPP, L.P. Defense Fuel Support Point Norwalk

Norwalk, California

Sample Location	Sample Date	Sample ID	Sample Depth Interval (feet bgs)	TPH-g	TPH-fp	Benzene	Toluene	Ethyl- benzene	Total Xylenes <sup>1</sup>	DIPE	ETBE	MTBE	TAME	ТВА
	1/25/2011	GB-19-10.5-01-012511	10.5 - 11	<2.1	<11	<11	<11	<11	<11	<21	<21	20	<21	<430
	1/25/2011	GB-19-20-01-012511	19.5 - 20	<2.2	<10	<11	<11	<11	<11	<22	<22	<11	<22	<440
	1/25/2011	GB-19-23-01-012511	23 - 23.5	<3.2	<13	<16	<16	<16	<16	<32	<32	<16	<32	<640
CP 10	1/25/2011	GB-19-30-01-012511	30 - 31	<2	<12	<9.8	<9.8	<9.8	<9.8	<20	<20	<9.8	<20	<390
GB-19	1/25/2011	GB-19-30-02-012511 (dup)	30 - 31	<2.1	<13	<11	<11	<11	<11	<21	<21	<11	<21	<420
	1/25/2011	GB-19-33-01-012511	33 - 33.5	<2.1	<13	<11	<11	<11	<11	<21	<21	<11	<21	<420
	1/25/2011	GB-19-40-01-012511	40 - 40.5	<2.2	<13	<11	<11	<11	<11	<22	<22	<11	<22	<440
	1/25/2011	GB-19-50-01-012511	50 - 50.5	<2.3	<13	<11	<11	<11	<11	<23	<23	<11	<23	<460
	1/25/2011	GB-20-10.5-01-012511	10.5 - 11	<1.8	<11	<9.2	<9.2	<9.2	<9.2	<20	<20	<9.2	<20	<370
	1/25/2011	GB-20-19.5-01-012511	19.5 - 20	<2.2	<12	<11	<11	<11	<11	<22	<22	<11	<22	<430
	1/25/2011	GB-20-22-01-012511	22 - 22.5	<1.9	<11	<9.3	<9.3	<9.3	<9.3	<20	<20	<9.3	<20	<370
CB 20	1/25/2011	GB-20-30-01-012511	30 - 30.5	<1.9	<12	<9.6	<9.6	<9.6	<9.6	<20	<20	<9.6	<20	<380
GB-20	1/25/2011	GB-20-32-01-012511	32 - 32.5	<2.1	<14	<11	<11	<11	<11	<21	<21	<11	<21	<420
	1/25/2011	GB-20-40-01-012511	40 - 41	<2.1	<12	<10	<10	<10	<10	<21	<21	<10	<21	<410
	1/25/2011	GB-20-40-02-012511 (dup)	40 - 41	<2	<12	<10	<10	<10	<10	<20	<20	<10	<20	<400
	1/25/2011	GB-20-50-01-012511	50 - 50.5	<2	<12	<10	<10	<10	<10	<20	<20	<10	<20	<410
	1/24/2011	GB-21-10.5-01-012411	10.5 - 11.5	<2.3	<11	<11	<11	<11	<11	<23	<23	<11	<23	<460
	1/24/2011	GB-21-10.5-02-012411 (dup)	10.5 - 11.5	<2	<11	<10	<10	<10	<10	<20	<20	<10	<20	<400
	1/24/2011	GB-21-20-01-012411	19 - 20	<2.2	<11	<11	<11	<11	<11	<22	<22	<11	<22	<430
	1/24/2011	GB-21-20-02-012411 (dup)	19 - 20	<2.1	<10	<10	<10	<10	<10	<21	<21	<10	<21	<410
	1/24/2011	GB-21-22-01-012411	22 - 22.5	<3.8	<11	<19	<19	<19	<19	<38	<38	<19	<38	<760
GB-21	1/24/2011	GB-21-30-01-012411	30 - 30.5	<2	<12	<10	<10	<10	<10	<20	<20	<10	<20	<400
	1/24/2011	GB-21-32-01-012411	32 - 33	<1.9	<12	<9.3	<9.3	<9.3	<9.3	<20	<20	<9.3	<20	<370
	1/24/2011	GB-21-32-03-012411	32 - 33	<1.9	<12	<9.7	<9.7	<9.7	<9.7	<20	<20	<9.7	<20	<390
	1/24/2011	GB-21-40-01-012411	39.5 - 40	<1.9	<12	<9.4	<9.4	<9.4	<9.4	<20	<20	<9.4	<20	<380
	1/24/2011	GB-21-50-01-012411	50 - 50.5	<2.1	<12	<11	<11	<11	<11	<21	<21	<11	<21	<430
	1/24/2011	GB-21-60-01-012411	60 - 60.5	<2.2	<13	<11	<11	<11	<11	<22	<22	40	<22	<430
	1/20/2011	GB-22-10.5-01-012011	10.5 - 11	<2.6	<13	<13	<13	<13	<13	<26	<26	<13	<26	<520
	1/20/2011	GB-22-20-01-012011	20 - 20.5	<2.5	<13	<12	<12	<12	<12	<25	<25	<12	<25	<490
	1/20/2011	GB-22-22-01-012011	22 - 22.5	<2.4	32	<12	<12	<12	<12	<24	<24	<12	<24	<480
GB-22	1/20/2011	GB-22-30-01-012011	30 - 30.5	<2.3	<13	<11	<11	<11	<11	<23	<23	<11	<23	<450
	1/20/2011	GB-22-32-01-012011	32 - 32.5	<2	<12	<10	<10	<10	<10	<20	<20	<10	<20	<410
	1/20/2011	GB-22-40-01-012011	39.5 - 40	<2.3	<13	<12	<12	<12	<12	<23	<23	<12	<23	<460
	1/20/2011	GB-22-53-01-012011	53 - 53.5	<2.3	<14	<12	<12	<12	<12	<23	<23	23	<23	<460
	1/20/2011	GB-23-10.5-01-012011	10.5 - 11	<2.3	21	<12	<12	<12	<12	<23	<23	<12	<23	<470
	1/20/2011	GB-23-20-01-012011	20 - 20.5	<2.3	<13	<12	<12	<12	<12	<23	<23	<12	<23	<460
	1/20/2011	GB-23-30-01-012011	30 - 30.5	<2.3	<13	<11	<11	<11	<11	<23	<23	<11	<23	<450
GB-23	1/20/2011	GB-23-32.5-01-012011	32 - 32.5	<1.9	<12	<9.7	<9.7	<9.7	<9.7	<20	<20	<9.7	<20	<390
	1/20/2011	GB-23-40-01-012011	40 - 40.5	<2.3	<12	<12	<12	<12	<12	<23	<23	<12	<23	<460
	1/20/2011	GB-23-50-01-012011	50 - 50 5	<27	<13	<13	<13	<13	<13	<27	<27	<13	<27	2 200

Notes

Results are reported in micrograms per kilogram (µg/kg).

The total xylenes result is the sum of m,p-xylenes and o-xylenes when detected.

2,200 Represents data detected above the laboratory reporting limit.

#### Abbreviations

<50 = not detected at or above the laboratory reporting limit shown DIPE = di-isopropyl ether DUP = duplicate sample ETBE = ethyl tertiary butyl ether MTBE = methyl tertiary butyl ether TAME = tertiary amyl methyl ether TBA = tertiary butyl alcohol TPH-fp = total extractable petroleum hydrocarbons quantified using a site fuel product standard TPH-g = total purgeable petroleum hydrocarbons quantified using a gasoline standard (C4-C13) bgs = below ground surface

#### TABLE 3 Summary of Hydropunch Groundwater Analytical Data Southeastern Area Step-Out Investigation

SFPP, L.P.

Defense Fuel Support Point Norwalk

Norwalk, California

Sample Location	Sample Date	Sample ID	Sample Depth Interval (feet bgs)	TPH-g	TPH-fp	Benzene	Toluene	Ethyl- benzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	ТВА
	1/26/2011	GB-19-34-04-012611	30 - 34	<50	<100	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<10
GB-10	1/26/2011	GB-19-41-04-012611	37 - 41	<50	<100	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<10
GB-13	1/26/2011	GB-19-46-04-012611	43 - 46	<50	<100	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<10
	1/26/2011	GB-19-46-06-012611 (dup)	43 - 46	<50	<100	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<10
	1/26/2011	GB-20-34-04-012611	31 - 34	<50	220	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<10
CB 20	1/26/2011	GB-20-39-04-012611	36 - 39	<50	<100	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<10
GB-20	1/26/2011	GB-20-45-04-012611	41 - 45	<50	<100	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<10
	1/26/2011	GB-20-45-05-012611 (dup)	41 - 45	<50	<100	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<10
	1/24/2011	GB-21-33.5-04-012411	29.5 - 33.5	<50	<100	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<10
GB-21	1/24/2011	GB-21-38.5-04-012411	34.5 - 38.5	<50	<100	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<10
	1/24/2011	GB-21-46.5-04-012411	42.5 - 46.5	<50	<100	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	140
	1/21/2011	GB-22-31-04-012111	27 - 31	<50	<100	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<10
GB-22	1/21/2011	GB-22-37-04-012111	33 - 37	<50	<100	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<10
	1/21/2011	GB-22-45-04-012111	41 - 45	<50	<100	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	110
	1/21/2011	GB-23-31-04-012111	27 - 31	<50	<100	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<10
GB-23	1/21/2011	GB-23-37-04-012111	33 - 37	<50	<100	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	<10
	1/21/2011	GB-23-45-04-012111	41 - 45	100	<100	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<1	2,400

#### Notes

Results are reported in micrograms per liter (µg/L).

The total xylenes result is the sum of m,p-xylenes and o-xylenes when detected.

100 Represents data detected above the laboratory reporting limit.

#### Abbreviations

<50 = not detected at or above the laboratory reporting limit shown

- DIPE = di-isopropyl ether
- DUP = duplicate sample
- ETBE = ethyl tertiary butyl ether
- MTBE = methyl tertiary butyl ether
- TAME = tertiary amyl methyl ether
- TBA = tertiary butyl alcohol
- TPH-fp = total extractable petroleum hydrocarbons quantified using a site fuel product standard
- TPH-g = total purgeable petroleum hydrocarbons quantified using a gasoline standard (C4-C13)

bgs = below ground surface

# Figures







	1	Diff.			<u>Ex</u>	<u>planatio</u>	<u>n</u>
					GB-19 🔵	Soil and Grou Location (CH2	ndwater Sampling M Hill, 2011)
/24	/2011	SB			GMW-39 -	Monitoring we	ell s
ť	<10				GMW-O-18 🛔	Remediation \	Well
	<10				CPT-1	CPT and Grou Location (AMI	undwater Sampling EC Geometrix, 2008)
	140				GB-18 🧿	Exposition aque	uifer groundwater tion
w-	64				GB-17 ()	(AMEC Geom Groundwater s	atrix, 2009) screening sample
					B-122	location (Gem	atrix, 2002)
					D-122	(Parsons, 200	7)
					GMW-13 07/10 10/10 <10 01/11	TBA results in Liter (µg/L) for semi-annual a	micrograms per the two most recent nd sentry events.
			1/2	6/2011	1 000	Lines of Equa of TBA (µg/L)	l concentration in groundwater
Г	Е	X	MTBE	ТВА	1,000	(dashed wher	e inferred)
).5	⊲0.5	<0.5	<0.5	<10		dissolved TBA	in
).5	<0.5	<0.5	<0.5	<10	ND	groundwater ( inferred) (cond	dashed where centration
J.5	<0.5	<0.5	<0.5	<10		dependent on reporting limit	laboratory
			7/9	9/2008		Lines of equal	groundwater
т	Е	х	MTBE	ТВА	48.0 -	elevation show	et above MSL
<50	<50	<50	5300	<100		(dashed where	e inferred) (April 2011)
<10	<10	<10	610	<100		Approximate water flow (Ap	bril 2011)
<10	<10	<10	550	<100		Estimated externation	ent of measurable
<10	<10	<10	<10	5600		hydrocarbons	(LNAPL, free product)
1	1	-				inferred	er; dashed where
	-	v	1/2 MTRE	6/2010 TRA	Depth	Sample depth	or well screen
.5	<0.5	<b>∧</b> <0.5	<0.5	<10	TDHa	surface	budroographono
.5	<0.5	<0.5	<0.5	<10	iPhg	quantified using	g a gasoline
.5	<0.5	⊲0.5	<0.5	<10	TPHfp	standard Total petroleum	hvdrocarbons
	255	100	6/21	2007		quantified using	g a fuel
т	F	Y	MTRE	TBA	в	Benzene	
ეეი	2200	9900	38000	1700	Т	Toluene	
.8	3.2	3.3	5800	12000	E	Ethylbenzene	
.9	16	2.39	18000	12000	X	Total xylenes	
24	6.2	19.7	190	15000	МТВЕ	Methy tert-buty	l ether
	1000		1000		ТВА	Tert-butyl alcol	lol
		1	11/19	9/2009	<100	Not detected a laboratory repo	t or above orting limit
Т	E	X	MTBE	ТВА	ם וח	(RL) shown	nple
<1.(	) <1.0	<1.0	<1.0	<10	Groundwa	ter analytical re	sults are
<1.(	) <1.0	<1.0	<1.0	<10	reported in Liter (µg/L	n units of microg ).	rams per
		7				Λ	
_	<u> </u>	1	7/9	9/2008			Feet
Т	E	X	MTBE	ТВА	0 50	100	200
<1.(	0 <1.0	<1.0	<1.0	<10	Hydronupc	h Groundw	ater Analytical
<1.(	0 <1.0	<1.0	<1.0	<10	Results	from SE Ir	ivestigation
<1.(	0 <1.0	<1.0	<1.0	<10		DFSP, Norwal	k CA
	79.8	F		1	By: Mike Brown	Date: 08/04/1	1 PN: 407609
			E	1	СН2	VIHILL	Figure 3

# Attachment A 1994 Soil Sample Analytical Results



	r	iorwalk, CA		
	$\sim$	Project No.	Figure	SM06
94	GEOMATRIX	S1603.11	5	1603

SO	IL	SA	MPLE	LTS
ANALY	TIC	AL	RESU	
BLOC	K \	/AL`	VE LEA	К
N	lorw	'alk	, CA	
	-			

- <u>N</u> -	

(		80
	APPRO SCALE	XIMATE (FEET)

o-X TPHg TPHd

.5	12	10	ND(5.0)	ND(5.0)	ND(2.0)	ND(2.0)	ND(10)
.5	24	15	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
.5	66	55	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
14	48	37	ND(5.0)	26	16	ND(5.0)	ND(10)
.5	68	120	27	120	62	ND(5.0)	ND(10)
.5	190,000	860,000	190,000	760,000	300,000	22,000	17,000
.5	43,000	320,000	53,000	300,000	120,000	23,000	4600
.5	14,000	2000	240	880	420	33	93
.5	770	1500	810	1800	650	940	9300
.5	NA	NA	NA	NA	NA	NA	NA
.5	810,000	2,400,000	500,000	2,200,000	850,000	65,000	24,000

E m.p.-X

B

 $\rightarrow$  $\rightarrow$ 

ГΗ	В	T	E	m.pX	o-X	TPHg	TPHd
.5	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
1.5	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
.5	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
1.5	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
.5	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
1.5	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)

ΓH	В	Т	E	m.pX	o-X	TPHg	TPHd
.5	ND(5.0)	11	ND(5.0)	16	7	ND(5.0)	ND(10)
.5	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
.5	3800	58,000	10,000	40,000	17,000	1400	1600
.5	53,000	470,000	62,000	440,000	92,000	15,000	3900
.5	17,000	110,000	26,000	100,000	41,000	3100	1900
27	39,000	290,000	58,000	220,000	92,000	8000	4200

ГН	В	Т	E	m.pX	o-X	TPHg	TPHd
7	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
10	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
13	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
16	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
1.5	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
22	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	5.3	ND(5.0)	ND(10)
23	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
.5	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
29	ND(5.0)	7.7	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
31	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
-							

# Attachment B 2002 Groundwater Analytical Results



### EXPLANATION

- GROUNDWATER MONITORING WELL
- VAPOR EXTRACTION, GROUNDWATER EXTRACTION, TOTAL FLUIDS, OR PRODUCT EXTRACTION WELL USED FOR SITE REMEDIATION
- BORING USED FOR GROUNDWATER SCREENING SAMPLE
- GROUNDWATER MONITORING WELL SAMPLED DURING THIS ASSESSMENT
  WITH METHYL TERT-BUTYL ETHER (MTBE) CONCENTRATION IN
  MICROGRAMS PER LITER (μg/l), FEBRUARY 2002
- GROUNDWATER MONITORING WELL SAMPLED DURING THE FIRST QUARTER 2002 SENTRY EVENT WITH MTBE CONCENTRATION IN μg/I, JANUARY 2002
- <0.5 NOT DETECTED AT OR ABOVE REPORTING LIMIT SHOWN

### NOTES:

 BASE MAP PREPARED FROM DATA PROVIDED BY GROUNDWATER TECHNOLOGY, DULIN AND BOYNTON, AND DEVELOPED BY GEOMATRIX.
 LOCATIONS OF GB1, GB1A, GB2, GB2A, GB3, GB4, GB4A, AND GB5 THROUGH GB17 ARE BASED ON SURVEY BY DULIN AND BOYNTON, MAY 2002.





	mww	1603	Figure
GEOMATRIX	Date 09/18/02		3



- 2. LOCATIONS OF GB1, GB1A, GB2, GB2A, GB3, GB4, GB4A, AND GB5 THROUGH GB17 ARE BASED ON SURVEY BY DULIN AND BOYNTON, MAY 2002.

RESULT GROUNI	S OF SU DWATER APRIL 2 DFSP NOF Norwalk, Ca	PPLEMEN <sup>¬</sup> ASSESSM 2002 RWALK alifornia	ΓAL ENT
	Figure By MWW	Project No. 1603	Figure
GEOMATRIX	Date 09/18/02		4

# Attachment C LACDPH Well/Boring Construction Permits

10/15/2010	09:06	6268133016		ENVIR	ONMENTAL HEA	4LTH	PAGE 01/
WELL PER	MIT APPLIC	CATION - NON I	PRODUCTION W	ELLS			
DRINKING WA	TER PROGRAM CE DRIVE, BAL	и - ENVIRONMENTA D <u>WIN PARK, СА 91</u>	L HEALTH DIVISION 706 TELE (626) 430-5	420 FAX (626)	813-3016	D.	ATE <u>10/05/10</u>
	CONSTRUCTIO	N 🛛 RECONST)	RUCTION OR RENOV	ATION D	DECOMMISSIONIN	NG D.OTHER:	
M HYDROPUN	СЧ	CATHODIC	INJECTION und Water_Sampling	ය ය න	(TRACTION THER	D MEATE	XCHANGE
Site Address			unt. Smither An Brot	<u>REQUENTED</u>			
	5306 Nor	<u>walk Blvd</u>	· · · · · · · · · · · · · · · · · · ·		City	prwalk	Zip Code 906
Incarest mierseet	Norwalk	and Excels	Thomas Guid	le Map Book Pag 3 hvd	e/Grid ropunches	Number of	Wells in Each Parcel
Total Depth of W	<u>026 () 1666 (</u> [e]]	Depth of Well Ca	els Zim Ale And Dig	STREELEINE	1. State of the second second	and the state of the	
Depth of Sanitary	bgs //Annular Scal	NANA			<u>Cement - Be</u>	n <u>tonite Gro</u>	out <u>95/5</u>
5	0' bgs		North county of the state of the	Conductor	NA		
Owner's Name	MEP c/o	Stenhen De	fibauch	Telephone Nu	Webstein auf and an and an	an san ten har sin	ing the second second second
Address 1100		a Grossen		,	714-56 City	0-4802	Zin Code
	wa awa awa awa TOMT HI	ia country	<u>Road</u>	100900000000000000000000000000000000000	Or Manual States	ange	21p Code 928
Driller's Name G	regg Dri	lling Inc.	an a	Telephone Nu	$\frac{1}{562-42}$	7-6899 <sup>C-571</sup>	License Number
Address 2726	Walnut	Ave					<u>48516</u> Žip Code
Well Danth			NICTOR DE LO MARTINE	STOPHIK CON	LEORAL TROM	<u>gnal Hill</u>	907
D log/records	NA	Meti Weli A	ssessment NA			Depth and Num	ber - NA
Type and Amount of Scalar	t NA	Type of Perforator	NA P	Size of erforations	NA	Method of Upper Scal	NA
Company		an Sola a So Sola a Sola a	SCORSULTER	IT UNISO COM	- 1110au - 2000	Pressure Application	
CH2N Address	<u>/ Hill,</u>	Inc.	· · · · · · · · · · · · · · · · · · ·				
1000 Project Manager	Wilshi	re Blvd		Los A	City ngeles	State CA	Zip Code 90017
ATTENTION	an Jable	onski	213	<sup>mber</sup> <u>-228-82</u> 7	'1	Fax Number	4-424-2135
ENCOUNTER	RED AT THE	AN MODIFICA SITE INSPECT	I'IONS MAY BE R ION ARE FOUNT	EQUIRED I	F WELL AND	GEOLOGIC CO	NDITIONS
THIS DEPAR I hereby agree to co	TMENT.	speet with all the second				SCOPE OF WOR	K PRESENTED TO
Angeles and the Sta Division Of Los At	ate of California j recles Connty	pertaining to well const	ruction, reconstruction, :	and decommissio	th Division and with ming data deemed n	all ordinances and law eccessary by the County	s of the County of Los Environmental Health
Signature of Applic	ant:	al 2m	_		Matthew M		
THIS PERMIT	I IS NOT CO	MPLETE UNIT	NULL OF THE F	Tinted Name:	REOUREM	ENTS ARE SICN	ED OFF DU JUID
A WORK PLA	NAPPROV	CER. WELL CO AL FROM THIS	NSTRUCTION OF	R DECOMM	USSIONING C	ANNOT BE HOT	ED OFF BY THE
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				NT USE ONI	.Y)***********	*******	******
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sampling	x at 15	different P	oralian	<u></u>		magune.	t
maintai	Pall sed	backs. n	stil, this	+			
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ingen eine einen einen einen einen eine		el Proposition de la companya de la La companya de la com La companya de la com	anan (da Gallan (da da Gallan) Sucha ang ang ang ang ang ang ang ang ang an			L	2011 (S

**NOTICE** This well permit approval is limited to compliance with the California Well Standards and the Los Angeles County Code and does not grant any rights to construct, reconstruct, or decommission any well. The applicant is responsible for securing all other necessary permits.

11/04/2010	07:34	6268133016		ENVIRONMENTAL HEAL	TH	PAGE 01/01
				•		
WELL PERMIT A	PPLICATI	ON - NON PRO	DUCTION WELL	Ģ	DATE	10/18/10
DRINKING WATER PR	OGRAM - EN VE. BALDWIN	VIRONMENTAL MA IPARK, CA 91706	TELE (626) 430-5420 1	AX (626) 813-3016		
DISUCONNERCE ONST	RUCTION	D RECONSTRUC	TION OR RENOVATIO			IANGE
D MONITORING	D CAT	HODIC	□ INJECTION Number Supporting)			
W HYDROPUNCH	<u> </u>	P.T. (For Ground	Walci Salipung		arra a casa an	and the second secon
	ander in der Gereinen sollten. Spensen in der Gereinen sollten im der Staten im der St Staten im der Staten im der	n a shiri a shiri a nga ka shiri a shiri a shiri a Na shiri a shiri a nga ka shiri a shiri		City	- 7 ]-	Zip Code 90650
Site Address 15306	Norwal	l <u>k Blvd</u>	The second and the Miles	NOT	Number of We	lis in Each Parcel
Nearest Intersection	alk and	A Excelsio	Thomas Guide Ma	<u>i hydropunches a</u>	<u>t 5 locatic</u>	ons, total:5
		in the second		REPORT (Appular Scaling Mate	an a	en en handel er generalden hat en der er bestenden er en en anderen. Er en handel er en er en der er e
Total Depth of Well	· Ø	Depth of Well Casing NA		<u>Cement-Bent</u>	<u>onite Grou</u>	<u>t 95/5                                   </u>
Depth of Sanitary / Ann	ular Seal			Conductor Casing Scal NA		
50	bgs	աստում Հետություն է ունելու է ու	TO MONTANIO CONT	CRAVE MUCH	na santa a santa	an a
Owner's Name	enationation > − / − CP	torber Def	i haugh <sup>T</sup>	clephone Number 714-560	-4802	
	2 C/O S	cepnen Der	<u></u>	City		Zip Code 92868
Address 1100 T	own and	<u>Country</u> F	load	Ora	nge	ine and in the second second
and Anna Anna Anna Anna Anna Anna Anna Anna Anna		and the second		Telephone Number	C-57 Liv	cense Number 485165
Driller's Name Gree	gg Dril	ling Inc.			-022	Zip Code
Address 2726 W	alnut 7	Ave		Sig	ynal Hill	90755
Trade To as Direction and		12 <u>/// 12 /</u>	N RIBONINIESI	OMINE IN CRAINE THE A	Depth and Numb	್ಷ <sub>ಾಯು ಕೆ</sub> ಟ್ ಮುಖ್ಯ ಸಾಭಾಗಿ ಕ್ರೌಗೆಯಿಂದ ಬೆಡೆಗಿ cr ====
Well Depth NZ	7	Metho Well As	od of NA		of Perforations	NA
□ log/records Type and		Type of N	JA Si	ize of NA	lethod of Upper Seal	NA
Amount of Sealant		Perforator	Per	MINING RAVES THONG	Colomit Lana, in the Soloris W.	an China and China China and China and China And
	y kanali laan si a	. 199 <u>9. – 199</u> 7 – 1998 – <sub>199</sub> 8 – 1997 – 199	Ale and a second se	n 1, jahun ingeneral meneral meneral meneral ingeneral ingeneral ingeneral ingeneral ingeneral ingeneral ingene		
CH2M	<u>Hill,</u> 1	nc.		City	State	Zip Code
1000 V	<u>Vilshir</u>	e Blvd	T-11 Nive	Los Angeles	EA Fax Number	30017
Project Manager	n Jablo	nski	21 <u>3</u> -	228-8271	71	4-424-2135
ATTENTION:	WORK PLA	AN MODIFICA	FIONS MAY BE R	EQUIRED IF WELL AND	GEOLOGIC CU	NUTTIONS 2K PRESENTED TO
ENCOUNTERE	D AT THE	SITE INSPECT	ION ARE FOUND	TO DIFFER FROM THE	SCOLL OF HOL	
THIS DEPART	DIV in every res	pect with all the regul	lations of the County Env	ironmental Health Division and with	all ordinances and law	s of the County of Los
Angeles and the State	of California p	ertaining to well cons	truction, reconstruction, a	and decommissioning data deemed n	ecessary by the County	Environmental ricatus
Division Of Los Ange		22-		Matthew M	layry	
Signature of Applicar	it: <u> </u>	MPLETEINT	NALL OF THE F	OLLOWING REQUIREM	ENTS ARE SIGN	ED OFF BY THE
DEPUTY HEAI	TH OFFIC	ER. WELL CO	NSTRUCTION O	R DECOMMISSIONING C	ANNOT BE INI	FIATED WITHOUT
A WORK PLAN	NAPPROV.	AL FROM THIS	<u>S ĎEPARTMENT.</u>			
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DISUCONNERCE ONST	RUCTION	D RECONSTRUC	TION OR RENOVATIO			IANGE
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	ander in der Gereinen sollten. Spensen in der Gereinen sollten im der Staten im der St Staten im der Staten im der	na sana sana na manazarta na sana sa		City	- 7 ]-	Zip Code 90650
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		in the second		REPORT (Appular Scaling Mate	an a	en en handel er generalen het en sterner sternen er en en anderen An der sterne
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Depth of Sanitary / Ann	ular Seal			Conductor Casing Scal NA		
50	bgs	աստում Հետություն է ունելու է ու	TO MONTANIO CONT	CRAVE MUCH	na santa a santa	an a
Owner's Name	enations > − / − C'	torber Def	i haugh <sup>T</sup>	clephone Number 714-560	-4802	
	2 C/O S	cepnen Der	<u></u>	City		Zip Code 92868
Address 1100 T	own and	<u>Country</u> F	load	Ora	nge	ine and in the second second second
and Anna Anna Anna Anna Anna Anna Anna Anna Anna		and the second		Telephone Number	C-57 Liv	cense Number 485165
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Address 2726 W	alnut 7	Ave		Sig	ynal Hill	90755
Trade To as Direction and		12 <u>/// 12 /</u>	N RIBONINIESI	OMINE IN CRAINE THE A	Depth and Numb	್ಷ <sub>ಾಯು ಕೆ</sub> ಟ್ ಮುಜ್ಜು ಸಾಭ್ಯಾತಿ ಕ್ರೀತೆ ಕೆಟ್ ಎಂಟಿಕ್ಸ್ cr =====
Well Depth NZ	7	Metho Well As	od of NA		of Perforations	NA
□ log/records Type and		Type of N	JA Si	ize of NA	lethod of Upper Seal	NA
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DEPUTY HEAI	TH OFFIC	ER. WELL CO	NSTRUCTION O	R DECOMMISSIONING C	ANNOT BE INI	FIATED WITHOUT
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	CONSTRUCTIO	N 🛛 RECONST)	RUCTION OR RENOV	ATION D	DECOMMISSIONIN	NG D.OTHER:	
M HYDROPUN	СЧ	CATHODIC	INJECTION und Water_Sampling	ය ය න	(TRACTION THER	D MEATE	XCHANGE
Site Address			unt. Smither An Brot	<u>REQUENTED</u>			
	5306 Nor	<u>walk Blvd</u>	· · · · · · · · · · · · · · · · · · ·		City	prwalk	Zip Code 906
Incarest mierseet	Norwalk	and Excels	Thomas Guid	le Map Book Pag 3 hvd	e/Grid ropunches	Number of	Wells in Each Parcel
Total Depth of W	<u>026 () 1666 (</u> [e]]	Depth of Well Ca	els Zim Ale And Dig	STREELEINE	1. State of the second second	and the state of the	
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**NOTICE** This well permit approval is limited to compliance with the California Well Standards and the Los Angeles County Code and does not grant any rights to construct, reconstruct, or decommission any well. The applicant is responsible for securing all other necessary permits.
# Attachment D City of Norwalk Access Agreement



SFPP, L.P. Operating Partnership December 27, 2010

Ms. Teresa Devoy City Clerk City of Norwalk 12700 Norwalk Boulevard Norwalk, California 90650

Subject: Transmittal of Access Fee for Amendment No. 2 to Temporary Access Agreement for Holifield Park for Work Related to the Defense Fuel Support Point Norwalk

Dear Ms. Devoy;

Please find attached a check in the amount of \$7,500.00 for the access fee for Amendment No. 2 to Temporary Access Agreement for Holifield Park for additional site assessment activities related to the Defense Fuel Support Point Norwalk, located at 15306 Norwalk Boulevard, Norwalk, California. A copy of the amendment is attached for reference.

If you have are any questions regarding this site, I can be reached at (714) 560-4802.

Sincerely,

KMEP

Atyche 10

Stephen T. Defibaugh, PG, CHG Senior Specialist, EHS

cc: Nancy Van Burgel, Kinder Morgan Energy Partners Adriana Figueroa, City of Norwalk Mark Wuttig, CH2MHill Daniel Jablonski, CH2MHill

Attachments

#### Kinder Morgan SFPP, L.P.

#### No. 862450 Check Date: 12/22/2010 (100058047)

CITY OF NORWALK, 12700 NORWALK BLVD., NORWALK CA 90650

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Description	Voucher #	Date	PO Number	Gross Amount	Discount Amount	Net Amount Paid
PMTREQ AGREEMENT FOR ***PLEASE SEND CHECK IN ORANGE***	PA 6094105 TO STEVE D	12/22/10 EFIBAUGH		\$7,500.00	\$0.00	\$7,500.00
Detach at Perforation Before De	epositing Check	<u></u>	Totals	\$7,500.00	\$0.00	\$7,500.00

#### KINDER MORGAN

**Kinder Morgan SFPP, L.P.** 500 Dallas, Suite 1000 Houston, TX 77002

PAY Seven Thousand Five Hundred AND 00/100

TO THE ORDER OF

100058047

CITY OF NORWALK 12700 NORWALK BLVD. NORWALK CA 90650 Wells Fargo Bank Ohio, N.A. 115 Hospital Drive Van Wert, OH 45891 56-382/412

#### Check No. 862450



Check Amount \$ \*\*\*\*\*7,500.00

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#### SECOND AMENDMENT TO TEMPORARY ACCESS AGREEMENT FOR HOLIFIELD PARK

This Second Amendment is entered into as of <u>*December 10*</u>, 2010, by and between the CITY OF NORWALK, a municipal corporation, (hereinafter designated as "NORWALK") and KINDER MORGAN ENERGY PARTNERS, L.P., a Delaware limited partnership (hereinafter designated as "KMEP").

#### RECITALS

- A. On June 17, 2008, the Norwalk City Council approved a Temporary Site Access License Agreement ("Agreement") for Holifield Park;
- B. This Second Amendment amends the Agreement;
- C. Results from groundwater testing prompted the California Regional Water Quality Control Board to require that KMEP conduct additional testing at Holifield Park, including testing to determine further vertical delineation of the plume of contaminants in and around the 24-inch Block Valve area;
- D. KMEP is requesting access to Holifield Park to perform soil, soil vapor and groundwater investigations as required by the California Regional Water Quality Control Board. CH2MHill, a contractor employed by KMEP, has provided to NORWALK a work plan prepared by a predecessor contractor, AMEC/Geomatrix, dated April 19, 2010 and an approval letter of that work plan dated August 12, 2010, from the Los Angeles Regional Water Quality Control Board which are attached hereto as Exhibits "A" and "B" respectively. CH2MHill has also provided to NORWALK a separate work plan prepared by AMEC dated May 27, 2010, which has been approved by the Los Angeles Regional Water Quality Control Board and is attached hereto as Exhibit "C," and a further work plan for conducting an investigation of possible LNAPL materials on the site, including at least one cone penitometer/Laser induced fluorescence device to be located in Holifield Park attached hereto as Exhibit "D." The latter work plan has not yet been formally approved by the Los Angeles Regional Water Quality Control Board, but the parties intend that if the Regional Board requires any changes in the plan that affect Holifield Park and the need for access to Holifield Park, then this agreement will control any such modified access requirements. To allow KMEP to perform the additional testing, NORWALK agrees to permit KMEP access to Holifield Park to perform the work as described in Exhibits "A." Exhibits "C" and "D" hereto, and such additional soil and

groundwater sampling as may be required by the Los Angeles Regional Water Quality Control Board in its review and approval of the vertical delineation summary report to be submitted by CH2MHill on behalf of KMEP to the Regional Board (collectively referred to as the "Work").

NOW THEREFORE, it is mutually agreed by and between the undersigned parties as follows:

<u>Section 1</u>. Section 1 of the Agreement is amended to read as follows:

This Amended Agreement shall be effective three (3) business days after the date of the last signature on the Amendment and shall continue in effect for the later of: (a) 24 months thereafter; or (b) the completion of all field sampling work as described in Exhibit "A" to this Second Amendment or the completion of all soil vapor monitoring work as described in Exhibit "C" to this Second Amendment. For purposes of determining continuance of this Agreement under this Section 1, a determination of completion of the work as described in Exhibit "A" or Exhibit "C" of the Second Amendment will be determined by CH2MHill and confirmed by KMEP.

<u>Section 2</u>. KMEP, its employees, agents, representatives, contractors and subcontractors shall have such additional access to Holifield Park as is required to complete the work described in Exhibit "A," Exhibits "C" and "D" hereto, and such additional soil and groundwater sampling as may be required by the Los Angeles Regional Water Quality Control Board in its review and approval of the vertical delineation summary report to be submitted by CH2MHill on behalf of KMEP to the Regional Board.

<u>Section 3</u>. Upon completion of laboratory analysis that KMEP will timely provide in tabular form to the NORWALK all results, with any QA/QC qualifiers and appropriate laboratory documentation. Such results shall be provided to the NORWALK without regard to the schedule for a final report to the Los Angeles Regional Water Quality Control Board.

<u>Section 4</u>. KMEP or CH2MHill will provide to NORWALK, and NORWALK will accept as satisfying this Section 4 requirement, a current certification of liability coverage showing limits of at least one (1) million dollars per occurrence for its automobile liability and commercial general liability. Either KMEP or CH2MHill will further provide to the NORWALK, and NORWALK will accept as satisfying this Section 4 requirement, a current certification of pollution liability policy with limits of at least one (1) million dollars per occurrence prior to the commencement of any further work or investigation in Holifield Park.

<u>Section 5</u>. KMEP, or CH2MHill on behalf of KMEP, will notify NORWALK at least two business days before the commencement of entry upon Holifield Park pursuant to the notice provisions set for in Section 6 of the Agreement.

<u>Section 6.</u> KMEP will pay to NORWALK an access fee of seven thousand five hundred dollars (\$7,500) for all work contemplated under this Second Amendment. No additional access fee will be imposed by NORWALK on KMEP, its employees, agents, representatives, contractors and subcontractors, for any work related to or contemplated under this Second Amendment. This fee shall be paid prior to the commencement of work as described in Exhibit "A" hereto.

<u>Section 7.</u> KMEP, or CH2MHill on behalf of KMEP, will transmit to NORWALK a final copy of the report on the results of the investigation required under the Work described in Recital D on the same day that said report is transmitted to the Regional Water Quality Control Board.

<u>Section 8</u>. All other provisions of the Agreement, as previously amended, shall remain in full force and effect.

IN WITNESS WHEREOF, the parties have executed this agreement as of the dates stated below:

#### CITY OF NORWALK

Gordon Stefenhagen Mayor

DATED: 12-07-10

#### KINDER MORGAN ENERGY PARTNERS, L.P.

BY: WIIM Name: Michael A. Hanak

Title: Director, Enviranme tal

DATED: 12/3/2010

ATTEST **BY** Theresa Devov City Clerk

Approved as to form:

BY: Steven L. Dorsey

City Attorney

Attachment E Survey Results



February 9, 2011

Dan Jablonski Ch2M Hill 1000 Wilshire Blvd 21<sup>st</sup> Floor Los Angeles, Ca 90017

**RE: DFSP Norwalk** 

On January 31, 2011 Dulin and Boynton performed a survey for 15 temporary borings for locations and elevations. Method of surveying is conventional fieldwork consist of horizontal angles and distances. The horizontal angles recorded during data collection are relative to the back sight. Horizontal distance is measured from the instrument set-up. Elevations are taken from instrument set-up with respect to instrument height and rod height. Equipment used Sokkia 530R3 total station and Nomad-spectra precision, survey pro 4.9.2 version.

Horizontal and vertical datum used CP-5 scribed "x", CP-7 scribed "x", CP-9 PK nail, CP-70 PK nail, CP-71 PK nail and CP-87 PK nail, all control points where found and previously set from previous surveys. Horizontal control is tied to NGS PID stations AI4489 and AJ1841 epoch date 2000.35, vertical datum is tied to County of Los Angeles benchmark CY8835.

The survey performed on January 31, 2011 under my supervision conforms with all federal, state and local laws regulating the practice of surveying in the State of California and the work also meets the specifications contained in this Scope of Work per purchase order #942975, project #407609.C1.02 dated January 08, 2011.

Please feel free to contact Edson Chavez if you have any further questions at (562) 426-6464.

Very truly yours,

Douglas Boynton, PLS4787 President



#### CH2M HILL DFSP NORWALK, CA

BORE	<u>ELEV</u>	<u>NORTH</u>	<u>EAST</u>
GB-19/A	74.6	1783006.4	6541375.4
GB-19/B	74.6	1783003.1	6541376.5
GB-19/C	74.5	1783001.2	6541373.5
GB-19/D	74.5	1783004.6	6541372.3
GB-20/A	75.0	1783090.3	6541320.2
GB-20/B	74.9	1783090.8	6541324.0
GB-20/C	74.8	1783086.8	6541324.8
GB-20/D	74.8	1783086.2	6541320.9
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GB-21/D	74.8	1783139.6	6541269.5
GB-22/A	74.0	1783171.7	6541187.2
GB-22/B	73.9	1783175.2	6541186.7
GB-22/C	73.9	1783178.5	6541186.3
GB-22/D	73.8	1783182.3	6541186.1
GB-23/A	73.4	1783178.4	6541125.5
GB-23/B	73.3	1783174.8	6541127.0
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GB-23/D	73.4	1783176.8	6541121.6

#### CH2M HILL DFSP NORWALK, CA

**BENCHMARK:** 

VERTICAL DATUM NGVD29

COUNTY OF LA BM #CY8835, CS BM MON IN S END C.B. 3.3' N/O BCR AT NW COR ALONDRA BLVD AND NORWALK BLVD MKD (BM 41-7A 1970)

1980 ELEV= 69.014 FEET NGVD29

HORIZONTAL DATUM NAD83, ZONE 5

NGS PID STATIONS AI4489 AND AJ1841 EPOCH DATE 2000.35



# Attachment F Nonhazardous Waste Manifest

1. J. St.

# NO. 692387

# NON-HAZARDOUS WASTE DATA FORM

Generator's Name and Mating Address       Generator's Name and Mating Address         SFPP, L.P. (NORWALK STATION)       SFPP NORWALK STATION         ATTN: KARINA HAVIKINS       1500 1000 X0000 X00000 X0000 X0000 X00000 X0000 X0000 X0000 X0000 X0000 X00000 X0000
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# Attachment G Boring Logs



Soil Boring Log

SHEET 1 OF 2

PROJECT : KMEP Norwalk

LOCATION : Southeastern Area, Defense Fuel Support Point, Norwalk, CA

GROUND ELEVATION: 74.6 ft (N	VD 29) DRILLING CONTRACTOR : Gregg Drilling and Testing,	Inc.
COORDINATES: N 1783006.4, E 6	41375.4, (NAD 83, Zone 5) DRILLING METHOD AND EQUIPMENT : CPT Rig, Dire	ct Push with Continuous Macro-core
WATER LEVEL: 28.00 ft bgs	START : 1/25/2011 END : 1/25/2011	LOGGER : M. Mayry
DEPTH BELOW GROUND SURFACE (ft) (ft) (ft) (ft) CORE INTERVAL LOGGED (ft) HYDROPUNCH SAMPLES CORE SCREENING PID READING	SOIL DESCRIPTION Soil Name, USCS Group Symbol, Color, Moisture Content, Relative Density or Consistency, Soil Structure, Mineralogy	COMMENTS Observations during drilling
	SILTY SAND (SM)         moist, 70% fine sand, 30% fines.         POORLY GRADED SAND (SP)         moist, 95% fine to medium sand, 5% fines.         CLAYEY SAND (SC)         moist, 70% fine sand, 30% fines.	Hand Auger to 10' bgs to clear for subsurface utilities.
10 - - 4.0 -	SILTY SAND (SM) moist, 85% fine sand, micaceous, 15% fines.	
15 15 15 4.0 ppm 4.0 ppm	As above. Moist, 85% fine sand, micaceous, 15% fines, grades into below.	
1.0 ppm	POORLY GRADED SAND (SP) dry, 100% fine sand.	
90 HO HO HO HO HO HO HO HO HO HO HO HO HO	SILTY SAND (SM) moist, 85% fine sand, micaceous, 15% fines.	
25 769060 7	SANDY SILT (ML) moist, 55% fines, 45% fine sand, micaceous, some clay present.	
Ar         -         4.0         2.2 ppm           Ar         -         -         -           Ar         -         -         -           MY         30         -         -	SILTY SAND (SM) wet, 60% fine sand, micaceous, 40% fines, mica prominent, standing water in sample.	DTW: 28' bgs



PROJECT : KMEP Norwalk

PROJECT NUMBER: BORING / WELL NUMBER: 407609 GB-19

Soil Boring Log

SHEET 2 OF 2

LOCATION : Southeastern Area, Defense Fuel Support Point, Norwalk, CA

	GROUNL	JELEVA	TION . 1	4.6 IL (INC	3VD 29	) DRILLING CONTRACTOR . Gregg Drining and resuring, in	С.
	COORDI	NATES:	N 17830	06.4, E 65	41375	4, (NAD 83, Zone 5) DRILLING METHOD AND EQUIPMENT : CPT Rig, Direct	Push with Continuous Macro-core
	WATER	LEVEL:	28.00 ft l	ogs		START : 1/25/2011 END : 1/25/2011	LOGGER : M. Mayry
	DEPTH BELOW 3ROUND SURFACE (ff)	CORE INTERVAL LOGGED (ft)	HYDROPUNCH SAMPLES	CORE SCREENING PID READING	GRAPHIC LOG	SOIL DESCRIPTION Soil Name, USCS Group Symbol, Color, Moisture Content, Relative Density or Consistency, Soil Structure, Mineralogy	COMMENTS Observations during drilling
		4.0	GB-19-34-04-012611	3.0 ppm		SANDY SILT (ML)         wet, 55% fines, 45% fine sand, micaceous.         SILTY SAND (SM)         wet, 70% fine sand, 30% fines.         As above, 60% fine sand, micaceous, 40% fines, mica prominent, standing         water in sample.         SANDY SILT (ML)         wet, 55% fines, 45% fine sand, micaceous.	
	35	3.8	<b>•</b>	5.7 ppm		POORLY GRADED SAND (SP)         wet, 95% fine sand, micaceous, 5% fines.         SILTY SAND (SM)         wet, 70% fine sand, 30% fines.         As above except, increase in fines, 65% fine sand, 35% fines, standing water in sample.	
	-	NR	-04-01261	4.6 ppm		SANDY SILT (ML) wet, 55% fines, 45% fine sand, micaceous, grades into below.	
	40	4.0	GB-19-41-			POORLY GRADED SAND (SP) wet, 95% fine sand, micaceous, 5% fines.	
	- - 45	3.5	16-04-012611	2.8 ppm		-	
3/28/11	-	N N	GB-19-4	1.4 ppm			
SED_327530.GLB,	_  50	4.0				SILTY SAND (SM)         wet, 60% fine sand, micaceous, 40% fines, mica prominent, standing water in sample.         POORLY GRADED SAND (SP)         wet, 95% fine sand, micaceous, 5% fines.	Moist, no visible water in sample
M GEOTECH_06_REV	_	4.0		2.7 ppm		SANDY SILT (ML) moist, 55% fines, 45% fine sand, micaceous. LEAN CLAY (CL) moist, 100% fines, trace fine sand, silt present, low plasticity, soft, low toughness, trace wood fragments present.	
KMEP NORWALK, 307609.GPJ, CH2						Boring terminated at 54 ft bgs.	



SHEET 1 OF 2

# Soil Boring Log

PROJECT : KMEP Norwalk LOCATION : Southeastern Area, Defense Fuel Support Point, Norwalk, CA GROUND ELEVATION: 75 ft (NGVD 29) DRILLING CONTRACTOR : Gregg Drilling and Testing, Inc. COORDINATES: N 1783090.8, E 6541320.2, (NAD 83, Zone 5) DRILLING METHOD AND EQUIPMENT : CPT Rig, Direct Push with Continuous Macro-core WATER LEVEL: 27.00 ft bgs START : 1/25/2011 END: 1/25/2011 LOGGER : M. Mayry DEPTH BELOW GROUND SURFACE CORE SCREENING PID READING CORE INTERVAL LOGGED (ft) SOIL DESCRIPTION HYDROPUNCH SAMPLES LOG COMMENTS Soil Name, USCS Group Symbol, Color, Moisture Content, Relative Density or Consistency, Soil GRAPHIC ŧ Observations during drilling Structure, Mineralogy SILTY SAND (SM) Hand Auger to 10' bgs to clear for moist, 70% fine sand, 30% fines. subsurface utilities. Hand Auge 5 POORLY GRADED SAND (SP) moist, 95% fine to medium sand, 5% fines. CLAYEY SAND (SC) moist, 70% fine sand, 30% fines. SILTY SAND (SM) dry, 60% fine sand, 40% fines, trace medium sand. 10 1.8 ppm 4.0 0.2 ppm Dry, 80% fine sand, 20% fines, trace medium sand. 15 2.0 As above. KMEP NORWALK, 307609.GPJ, CH2M GEOTECH\_06\_REVISED\_327530.GLB, 3/28/11 Ř 2.0 POORLY GRADED SAND (SP) 20 0.4 ppm dry, 95% fine sand, 5% fines. R SILTY SAND (SM) 2.0 0.6 ppm moist, 85% fine sand, 15% fines. As above. 25 Ř CLAYEY SAND (SC) 1.0 ppm DTW: 27' bgs wet, 80% fine sand, 20% fines. 3.5 As above, 70% fine sand, 30% fines. α 30



PROJECT : KMEP Norwalk

PROJECT NUMBER: BORING / WELL NUMBER: 407609 **GB-20** SHEET 2 OF 2

## Soil Boring Log

LOCATION : Southeastern Area, Defense Fuel Support Point, Norwalk, CA

GROUND ELEVATION: 75 ft (NGVD 29) DRILLING CONTRACTOR : Gregg Drilling and Testing, Inc. COORDINATES: N 1783090.8, E 6541320.2, (NAD 83, Zone 5) DRILLING METHOD AND EQUIPMENT : CPT Rig, Direct Push with Continuous Macro-core WATER LEVEL: 27.00 ft bgs START : 1/25/2011 END: 1/25/2011 LOGGER : M. Mayry DEPTH BELOW GROUND SURFACE CORE SCREENING PID READING CORE INTERVAL LOGGED (ft) SOIL DESCRIPTION HYDROPUNCH SAMPLES LOG COMMENTS Soil Name, USCS Group Symbol, GRAPHIC ŧ Color, Moisture Content, Relative Observations during drilling Density or Consistency, Soil Structure, Mineralogy 100 rag CLAYEY SAND (SC) wet, 80% fine sand, 20% fines. GB-20-34-04-0126 SANDY SILT (ML) 4.0 0.6 ppm wet, 55% fines, 45% fine sand, micaceous, grades into below. 0.3 ppm 35 As above, increase in silt. 2.8 ppm 4.0 GB-20-39-04-01261 0.2 ppm As above, increase in silt. SILTY SAND (SM) wet, 85% fine sand, micaceous, 15% fines. POORLY GRADED SAND (SP) wet, 95% fine to medium sand, 5% fines 3.0 40 SANDY SILT (ML) 0.5 ppm wet, 55% fines, 45% fine sand, micaceous. POORLY GRADED SAND (SP) wet, 95% fine sand, 5% fines. Ř GB-20-45-04-01261 1.3 ppm POORLY GRADED SAND WITH SILT (SP-SM) wet, 90% fine sand, 10% fines. 1.5 Ц 45 3/28/1 POORLY GRADED SAND (SP) wet, 95% fine to medium sand, 5% fines. KMEP NORWALK, 307609.GPJ, CH2M GEOTECH\_06\_REVISED\_327530.GLB, LEAN CLAY WITH SAND (CL) 3.5 0.3 ppm moist, 80% fines, 20% fine sand, low plasticity, low toughness, soft, some silt present, slow dilatancy. CLAYEYSAND (SC) Ĕ moist, 80% fine sand, 20% fines, low plastic fines present. 50 Moist, no visible water in sample. SILTY SAND (SM) moist, 85% fine sand, micaceous, 15% fines. 3.0 LEAN CLAY WITH SAND (CL) moist, 80% fines, 20% fine sand, low plasticity, low toughness, soft, some silt present, slow dilatancy, trace wood fragments present. 1.0 ppm CLAYEY SAND (SC) NЯ \ moist, 80% fine sand, 20% fines 55 Abundant water in sampler. R Boring terminated at 58 ft bgs.



Soil Boring Log

SHEET 1 OF 3

PROJECT : KMEP Norwalk

LOCATION : Southeastern Area, Defense Fuel Support Point, Norwalk, CA

GROUN	D ELEVA	TION: 7	4.7 ft (NG	GVD 29)		DRILLING CONTRACTOR : Gregg Drilling	and Testing, In	С.
COORD	NATES:	N 178314	2.1, E 65	41272.	4, (NAD 83, Zone 5)	DRILLING METHOD AND EQUIPMENT : (	CPT Rig, Direct	Push with Continuous Macro-core
WATER	LEVEL:	27.00 ft b	gs		START : 1/24/2011	END : 1/24/2011		LOGGER : M. Mayry
DEPTH BELOW GROUND SURFACE (ft)	CORE INTERVAL LOGGED (ft)	HYDROPUNCH SAMPLES	CORE SCREENING PID READING	GRAPHIC LOG	Soil N Color De	SOIL DESCRIPTION lame, USCS Group Symbol, , Moisture Content, Relative nsity or Consistency, Soil Structure, Mineralogy		COMMENTS Observations during drilling
- - - - - - - - - - - - - -	Hand Auger				SILTY SAND (SM) moist, 70% fine sand, 30 POORLY GRADED SANU moist, 95% fine to mediuu CLAYEY SAND (SC) moist, 70% fine sand, 30 SILTY SAND (SM) dry, 60% fine sand, 40%	% fines. <b>D (SP)</b> m sand, 5% fines. % fines. fines, trace medium sand.		Hand Auger to 10' bgs to clear for subsurface utilities.
10	4.0		1.4 ppm					
- 15 - 3/28/11	3.5		1.7 ppm					
D_327530.G	2.0		1.7 ppm			D (60)	-	-
	NR		2.9 ppm		dry, 95% fine sand, 5% fin SILTY SAND (SM) moist, 80% fine sand, mic	caceous, 20% fines, trace medium sand.	 	
01609.GPJ, CH2M 0	4.0		5.6 ppm 1.6 ppm				-	-
	4.0		5.6 ppm		As above, wet. As above, increase in fine SANDY SILT (ML) wet, 60% fines, 40% fine	es, 60% fine sand, 40% fines.	-	DTW: 27' bgs



Soil Boring Log

SHEET 2 OF 3

# PROJECT : KMEP Norwalk

LOCATION : Southeastern Area, Defense Fuel Support Point, Norwalk, CA

GROUN	D ELEVA	TION: 7	'4.7 ft (NC	29) DRILLING CONTRACT	OR : Gregg Drilling and Testing, In	IC.
COORD	NATES:	N 178314	42.1, E 65	72.4, (NAD 83, Zone 5) DRILLING METHOD A	ND EQUIPMENT : CPT Rig, Direct	Push with Continuous Macro-core
WATER	LEVEL:	27.00 ft k	ogs	START : 1/24/2011 END : 1/	24/2011	LOGGER : M. Mayry
DEPTH BELOW GROUND SURFACE (ft)	CORE INTERVAL LOGGED (ft)	HYDROPUNCH SAMPLES	CORE SCREENING PID READING	SOIL DESCRIPTION Soil Name, USCS Group Symbol, Color, Moisture Content, Relative Density or Consistency, Soil Structure, Mineralogy		COMMENTS Observations during drilling
-	3.0	21-33.5-04-012611	4.6 ppm 3.5 ppm	SILTY SAND (SM) wet, 75% fine sand, micaceous, 25% fines.	-	
-	RN	GB-3			-	-
35	3.0	.5-04-012611	4.7 ppm		-	
-	NR	GB-21-38		POORLY GRADED SAND (SP) wet, 95% fine sand, micaceous, 5% fines, trace me	dium sand.	
- 40	2.0		2.1 ppm	Decrease in fines.	-	
-	NR					
-	3.0	.5-04-012611	1.9 ppm	SILTY SAND (SM) wet, 75% fine sand, micaceous, 25% fines. POORLY GRADED SAND (SP) wet, 95% fine sand, micaceous, 5% fines, trace me	dium sand.	
	NR	GB-21-46			-	
30.GLB, 3/	3.0		4.1 ppm 3.1 ppm	CLAYEY SILT (CL/ML) moist, 90% fines, 10% fine sand, low plasticity, soft dilatancy.	low toughness, rapid	
	NR		2.6 ppm	LEAN CLAY (CL) moist, 95% fines, 5% fine sand, low plasticity, soft, dilatancy.	ow toughness, slow $\int_{\overline{I}}$	
- <u>ECH_06_REV</u>	3.0		3.3 ppm	Wet, 75% fine sand, 25% fines.	/ 	
12M GEOT	NR		1.2 ppm		-	
- 55	3.5		1.2 ppm	LEAN CLAY WITH SAND (CL) moist, 75% fines, 25% fine sand, micaceous, low p some silt present. SILTY SAND (SM)	asticity, low toughness, soft, /	-
ORWALK,	Ц Z			LEAN CLAY WITH SAND (CL) moist, 75% fines, 25% fine sand, micaceous, low p some silt present.	asticity, low toughness, soft,	-
- к 60	2.5			SILTY SAND (SM) wet, 60% fine sand, micaceous, 40% fines, some lo	w plastic fines.	



PROJECT NUMBER:	BORING / WELL NUMBER:				
407609	GB-21	SHEET	3	OF	3

Soil Boring Log

PROJECT : KMEP Norwalk	ĸ	LOCATION : Southeastern Area, Defense Fuel Support Po	int, Norwalk, CA
GROUND ELEVATION : 7	'4.7 ft (NGVD 29	) DRILLING CONTRACTOR : Gregg Drilling and Testing, Inc.	С
COORDINATES: N 178314	42.1, E 6541272	4, (NAD 83, Zone 5) DRILLING METHOD AND EQUIPMENT : CPT Rig, Direct	Push with Continuous Macro-core
WATER LEVEL: 27.00 ft t	ogs	START : 1/24/2011 END : 1/24/2011	LOGGER : M. Mayry
DEPTH BELOW GROUND SURFAC (ft) (ft) CORE INTERVAL LOGGED (ft) HYDROPUNCH SAMPLES	CORE SCREENING PID READING GRAPHIC LOG	SOIL DESCRIPTION Soil Name, USCS Group Symbol, Color, Moisture Content, Relative Density or Consistency, Soil Structure, Mineralogy	COMMENTS Observations during drilling
	1.1 ppm	SILTY SAND (SM)           Wet, 85% fine sand, micaceous, 15% fines.           POORLY GRADED SAND (SP)           wet, 85% fine sand, 5% fines.           Boring terminated at 60.5 ft bgs.	



PROJECT : KMEP Norwalk

PROJECT NUMBER: BORING / WELL NUMBER: 407609 **GB-22** 

Soil Boring Log

SHEET 1 OF 3

#### LOCATION : Southeastern Area, Defense Fuel Support Point, Norwalk, CA

GROUND ELEVATION: 74 ft (NGVD 29) DRILLING CONTRACTOR : Gregg Drilling and Testing, Inc. COORDINATES: N 1783171.7, E 6541187.2, (NAD 83, Zone 5) DRILLING METHOD AND EQUIPMENT : CPT Rig, Direct Push with Continuous Macro-core WATER LEVEL: 27.00 ft bgs START : 1/20/2011 END: 1/20/2011 LOGGER : M. Mayry DEPTH BELOW GROUND SURFACE CORE SCREENING PID READING CORE INTERVAL LOGGED (ft) SOIL DESCRIPTION HYDROPUNCH SAMPLES LOG COMMENTS Soil Name, USCS Group Symbol, Color, Moisture Content, Relative Density or Consistency, Soil GRAPHIC ŧ Observations during drilling Structure, Mineralogy SILTY SAND (SM) Hand auger to 10' bgs to clear moist, 70% fine sand, 30% fines. subsurface utilities. Hand Auge POORLY GRADED SAND (SP) moist, 95% fine to medium sand, 5% fines. 5 CLAYEY SAND (SC) moist, 70% fine sand, 30% fines. 10 3.6 ppm SILTY SAND (SM) moist, 80% fine sand, micaceous, 20% fines. 3.0 R 15 0.7 ppm As above, 70% fine sand, micaceous, 30% fines. 3.0 3/28/11 POORLY GRADED SAND (SP) moist, 95% fine sand, micaceous, 5% fines KMEP NORWALK, 307609.GPJ, CH2M GEOTECH\_06\_REVISED\_327530.GLB, Щ 20 4.0 0.5 ppm 0.4 ppm SILTY SAND (SM) moist, 70% fine sand, micaceous, 30% fines, grading to below. CLAYEY SAND (SC) moist, 70% fine sand, micaceous, 30% fines, mostly low plastic fines. 0.5 ppm 3.5 POORLY GRADED SAND (SP) moist, 95% fine sand, micaceous, 5% fines, trace medium sand. 25 Ĕ As above, slight increase in medium sand. Depth to water at ~27' bgs. 4.0 0.3 ppm SILTY SAND (SM) GB-22-31 wet, 70% fine sand, micaceous, 30% fines. 0.7 ppm



SHEET 2 OF 3

### Soil Boring Log

PROJECT : KMEP Norwalk LOCATION : Southeastern Area, Defense Fuel Support Point, Norwalk, CA GROUND ELEVATION: 74 ft (NGVD 29) DRILLING CONTRACTOR : Gregg Drilling and Testing, Inc. COORDINATES: N 1783171.7, E 6541187.2, (NAD 83, Zone 5) DRILLING METHOD AND EQUIPMENT : CPT Rig, Direct Push with Continuous Macro-core WATER LEVEL: 27.00 ft bgs START : 1/20/2011 END: 1/20/2011 LOGGER : M. Mayry DEPTH BELOW GROUND SURFACE (ft) CORE INTERVAL LOGGED (ft) CORE SCREENING PID READING HYDROPUNCH SAMPLES SOIL DESCRIPTION **GRAPHIC LOG** COMMENTS Soil Name, USCS Group Symbol, Color, Moisture Content, Relative Density or Consistency, Soil Observations during drilling Structure, Mineralogy ngg 8.0 SILTY SAND (SM) wet, 70% fine sand, micaceous, 30% fines. Increase in mica. \_ 4.0 ome clav present

_				As above, some clay present.	-	
_ 35	2.0	GB-22-37	0.6 ppm	As above, 85% fine sand, micaceous, 15% fines, some clay, trace medium sand.	_	Water in sample. Poor recovery.
-	NR				-	
-	2.0			<b>POORLY GRADED SAND (SP)</b> wet, >90% fine sand, micaceous, <10% fines.		
- 40	NR		1.2 ppm	SILTY SAND (SM) wet, 60% fine sand, micaceous, 40% fines as silt.	-	
-	2.0	GB-22-45	1.2 ppm	<b>POORLY GRADED SAND (SP)</b> wet, 95% fine to medium sand, 5% fines, grades into below.	_	
45	NR		0.6 ppm		_	
			0.0 ppm			

	- R				_
	- 2.0	GB-22-45	1.2 ppm	POORLY GRADED SAND (SP)           wet, 95% fine to medium sand, 5% fines, grades into below.	
45_	R		0.6 ppm		_
	2.5			LEAN CLAY (CL) wet 90% fines 10% fine sand micaceous low plasticity low toughness soft	
	- - - - - - - - - - - - - - - - - - -		0.3 ppm	slow to medium dilatancy, abundant silt present, interlaminated Silty Clay	/
50 _	- N			Trace micaceous fine sand and silt observed with water in sampler from 50'-53' bgs, no true recovery.	
55_	3.0		0.5 ppm	SANDY SILT (ML) INTERBEDDED WITH SILTY SAND (SM) wet, >50% fine sand, micaceous, <50% fines, interlaminated Sandy Silt (ML). SILTY SAND (SM)	_
	R				_
60	- 4.0				_



PROJECT NUMBER:	BORING / WELL NUMBER:				
407609	GB-22	SHEET	3	OF	3

# Soil Boring Log

GROUND LEXANCE. 74 (AVSV2 2)     DBILLING CONTRACTOR. 36 (AVSV2 2)       DORRING STATT 1202011     DBILLING CONTRACTOR. 1007 Right With with Controlsona Macro core DBILLING CONTRACTOR. 1007 Right With With Controlsona Macro core Statt 1: 1202011     LOGGER 1M. Mary       VMTER LEVEL: 27.00 ft bp:     STATT 1: 1202011     DBILLING CONTRACTOR. 1007 Right With With Controlsona Macro core Statt 1: 1202011     LOGGER 1M. Mary       VMTER LEVEL: 27.00 ft bp:     Statt 1: 1202011     COMMENTS     COMMENTS       Solit Nem: USCS Cores Symbol Control Macro core of Macro core core of Macro core core core of Macro core core of Macro core of Macro core core core core core core core c	PROJEC	I : KME	PNorwalk	(		LOCATION : Southeastern Area, Defense Fuel Support Po	bint, Norwalk, CA
DODENNTER         LTBS171, 2, MS183, Zore 5)         DRUING METHOD AND EQUIPMENT: CPT Rq. Direct Path WILCOMMAN Manon core           WHETE UN-VE: Z/ 00 fb bg         STAT: 1202011         END: 1202011         LOOGER: 1M. Mayr           Soll DISCRIPTION         Soll DISCRIPTION         COMMENTS         Observations during drilling           Big	GROUN	D ELEVA	TION: 7	′4 ft (NGV	/D 29)	DRILLING CONTRACTOR : Gregg Drilling and Testing, In	С.
UNITE IL INTEL 27 00 Rbp:         START: 1/20/0011         ED: 1/20/2011         LOGGER: 1M. Mayry           Note the first of the start	COORD	INATES:	N 178317	71.7, E 65	541187.	2, (NAD 83, Zone 5) DRILLING METHOD AND EQUIPMENT : CPT Rig, Direct	Push with Continuous Macro-core
Note that is a second of the second	WATER	LEVEL:	27.00 ft b	as		START : 1/20/2011 END : 1/20/2011	LOGGER : M. Mavrv
Note See Term	cE /	_	-	ğ			
Bit	LOW RFA	(f) (f)	IN CH	ENING	LOG	SOIL DESCRIPTION	COMMENTS
Image:	H BE S SU	0 TE	OPU	CRE	ЯË	Soil Name, USCS Group Symbol, Color, Moisture Content, Relative	
1       2       3       3       0       Security, Mineratory         1       1       1       1       1       1       1       1         1 </td <td></td> <td>RE I</td> <td>SAN</td> <td>ND R.S.</td> <td>RAP</td> <td>Density or Consistency, Soil</td> <td>Observations during drilling</td>		RE I	SAN	ND R.S.	RAP	Density or Consistency, Soil	Observations during drilling
As above, decrease in grain size, absence of medium sand.  Total depth: 61' bgs.  Total depth: 61' bgs.  Total depth: 61' bgs.	GRC	CO	Ŧ	COF	G	Structure, Mineralogy	
Boring terminated at 61 ft bgs.							
Boring terminated at 61 ft bgs.	-					As above, decrease in grain size, absence of medium sand.	Total depth: 61' bgs.
						Boring terminated at 61 ft bgs.	
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SHEET 1 OF 2

### Soil Boring Log

PROJECT : KMEP Norwalk LOCATION : Southeastern Area, Defense Fuel Support Point, Norwalk, CA GROUND ELEVATION: 73.4 ft (NGVD 29) DRILLING CONTRACTOR : Gregg Drilling and Testing, Inc. COORDINATES: N 1783178.4, E 6541125.5, (NAD 83, Zone 5) DRILLING METHOD AND EQUIPMENT : CPT Rig, Direct Push with Continuous Macro-core WATER LEVEL: 28.00 ft bgs START : 1/20/2011 END: 1/20/2011 LOGGER : M. Mayry DEPTH BELOW GROUND SURFACE (ft) CORE SCREENING PID READING CORE INTERVAL LOGGED (ft) SOIL DESCRIPTION HYDROPUNCH SAMPLES LOG COMMENTS Soil Name, USCS Group Symbol, Color, Moisture Content, Relative Density or Consistency, Soil GRAPHIC Observations during drilling Structure, Mineralogy SILTY SAND (SM) Hand auger to 10' bgs to clear moist, 70% fine sand, 30% fines. subsurface utilities. Hand Auge POORLY GRADED SAND (SP) moist, 95% fine to medium sand, 5% fines. 5 CLAYEY SAND (SC) moist, 70% fine sand, 30% fines. 10 2.3 ppm SILTY SAND (SM) moist, 85% fine sand, 15% fines. 3.0 R 3.3 ppm As above. 15 1.5 2.8 ppm KMEP NORWALK, 307609.GPJ, CH2M GEOTECH\_06\_REVISED\_327530.GLB, 3/28/11 R 2.5 20 3.0 ppm POORLY GRADED SAND (SP) dry, 95% fine sand, 5% fines, trace medium sand. 4.5 ppm R SILTY SAND (SM) moist, 80% fine sand, micaceous, 20% fines. 6.0 ppm As above, increase in clay. 4.0 25 2.8 ppm 3.8 ppm SANDY SILTY CLAY (ML/CL) wet, 60% fines, 40% fine sand, micaceous, low plasticity, low toughness, soft. 3.0 4.2 ppm Depth to water at 28' bgs. GB-23-31 3.5 ppm ЯN



SHEET 2 OF 2

## Soil Boring Log

PROJECT : KMEP Norwalk

LOCATION : Southeastern Area, Defense Fuel Support Point, Norwalk, CA

GROUN	ID ELEVA	TION: 7	73.4 ft (NG	6VD 29	)	DRILLING CONTRACTOR : Gregg Drilling a	nd Testing, In	С.
COORE	INATES:	N 17831	78.4, E 65	41125.	5, (NAD 83, Zone 5)	DRILLING METHOD AND EQUIPMENT : CF	PT Rig, Direct	Push with Continuous Macro-core
WATEF	LEVEL:	28.00 ft I	bgs		START : 1/20/2011	END : 1/20/2011		LOGGER : M. Mayry
DEPTH BELOW GROUND SURFACE (ff)	CORE INTERVAL LOGGED (ft)	HYDROPUNCH SAMPLES	CORE SCREENING PID READING	GRAPHIC LOG	Soil Colc D	SOIL DESCRIPTION Name, USCS Group Symbol, or, Moisture Content, Relative Jensity or Consistency, Soil Structure, Mineralogy		COMMENTS Observations during drilling
CH2M GEOTECH <u>06</u> REVISED 327530.GLB, 3/28/11 CH2M GEOTECH <u>07</u> REVISED 377530.GLB, 3/28/11 CH2M GEOTECH <u>07</u> REVISED	2.5 COVE INTERV 3.0 3.0 WZ 3.0 WZ 3.0 WZ 3.0 WZ 3.0 CVE INTERV 2.5 COVE INTERV Z.5	GB-23-45 GB-23-37 SAMPLES SAMPLES	2.4 ppm 6.2 ppm 6.3 ppm 4.1 ppm 0.3 ppm 3.9 ppm 3.9 ppm 5.4 ppm		Soil Cold D SILTY SAND (SM) wet, 55% fine sand, mic Decrease in fines. Increase in fines. Increase in fines. POORLY GRADED SAN wet, 95% fine to medium Decrease in fines.	I Name, USCS Group Symbol, or, Moisture Content, Relative Density or Consistency, Soil Structure, Mineralogy caceous, 45% fines.		COMMENTS Observations during drilling
KMEP NORWALK, 307609.GPJ, CH2M					Boring terminated at 52.	.5 ft bgs.		

# Attachment H Laboratory Analytical Reports



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

#### ANALYTICAL REPORT

CH2M Hill	Attn: Daniel Jablonski
1000 Wilshire Boulevard	Phone: (213) 228-8271
Los Angeles, CA 90017	Fax: (714) 424-2135
	Date Received : 01/22/11

Job: Norwalk

	Percent Moisture ASTM D2216			
Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>GB-23-10.5-01-012011</b> Lab ID : CHH11012401-01A Percent Moisture Date Sampled 01/20/11 09:23	19	0.10 %	01/27/11	01/27/11
Client ID: <b>GB-23-20-01-012011</b> Lab ID : CHH11012401-02A Percent Moisture Date Sampled 01/20/11 09:38	21	0.10 %	01/27/11	01/27/11
Client ID: <b>GB-23-30-01-012011</b> Lab ID : CHH11012401-03A Percent Moisture Date Sampled 01/20/11 10:10	23	0.10 %	01/27/11	01/27/11
Client ID: <b>GB-23-32.5-01-012011</b> Lab ID : CHH11012401-04A Percent Moisture Date Sampled 01/20/11 10:30	17	0.10 %	01/27/11	01/27/11
Client ID: <b>GB-23-40-01-012011</b> Lab ID : CHH11012401-05A Percent Moisture Date Sampled 01/20/11 10:55	16	0.10 %	01/27/11	01/27/11
Client ID: <b>GB-23-50-01-012011</b> Lab ID : CHH11012401-06A Percent Moisture Date Sampled 01/20/11 11:30	22	0.10 %	01/27/11	01/27/11
Client ID: <b>GB-22-10.5-01-012011</b> Lab ID : CHH11012401-07A Percent Moisture Date Sampled 01/20/11 13:30	23	0.10 %	01/27/11	01/27/11
Client ID: <b>GB-22-20-01-012011</b> Lab ID : CHH11012401-08A Percent Moisture Date Sampled 01/20/11 13:51	22	0.10 %	01/27/11	01/27/11
Client ID: <b>GB-22-22-01-012011</b> Lab ID : CHH11012401-09A Percent Moisture Date Sampled 01/20/11 13:55	24	0.10 %	01/27/11	01/27/11
Client ID: <b>GB-22-30-01-012011</b> Lab ID : CHH11012401-10A Percent Moisture Date Sampled 01/20/11 14:00	23	0.10 %	01/27/11	01/27/11
Client ID: <b>GB-22-32-01-012011</b> Lab ID : CHH11012401-11A Percent Moisture Date Sampled 01/20/11 14:40	19	0.10 %	01/27/11	01/27/11

# Cć.

# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID: GB-22-40-01-012011				
Lab ID : CHH11012401-12A Percent Moisture	25	0.10 %	01/27/11	01/27/11
Date Sampled 01/20/11 15:20				
Client ID: GB-22-53-01-012011				
Lab ID: CHH11012401-13A Percent Moisture	28	0.10 %	01/27/11	01/27/11
Date Sampled 01/20/11 17:05				

Rogen Scholl Kandy Santun Walter

Dalter Arihm

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

1/31/11



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

#### **ANALYTICAL REPORT**

CH2M Hill 1000 Wilshire Boulevard Los Angeles, CA 90017

 Attn:
 Daniel Jablonski

 Phone:
 (213) 228-8271

 Fax:
 (714) 424-2135

 Date Received : 01/22/11

Job: Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B Volatile Organic Compounds (VOCs) EPA Method SW8260B

				Reporting	Date	Date
		Parameter	Concentration	Limit	Extracted	Analyzed
Client ID :	GB-23-10.5-01-012011	I				
Lab ID :	CHH11012401-01A	TPH-E (Fuel Product)	21 *	12 mg/Kg-dry	01/25/11	01/27/11
Date Sampled	01/20/11 09:23	Surr: Nonane	152	(62-161) %REC	01/25/11	01/27/11
•		TPH-P (GRO)	ND	2.3 mg/Kg-dry	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	ND	470 μg/Kg-dry	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND	12 μg/Kg-dry	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND	23 µg/Kg-dry	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	23 μg/Kg-dry	01/25/11	01/25/11
		Benzene	ND	12 μg/Kg-dry	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND	23 µg/Kg-dry	01/25/11	01/25/11
		Toluene	ND	12 μg/Kg-dry	01/25/11	01/25/11
		Ethylbenzene	ND	12 μg/Kg-dry	01/25/11	01/25/11
		m,p-Xylene	ND	12 µg/Kg-dry	01/25/11	01/25/11
		o-Xylene	ND	12 µg/Kg-dry	01/25/11	01/25/11
		Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	100	(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	01/25/11	01/25/11
Client ID :	GB-23-20-01-012011					
Lab ID :	CHH11012401-02A	TPH-E (Fuel Product)	ND	13 mg/Kg-dry	01/25/11	01/27/11
Date Sampled	01/20/11 09:38	Surr: Nonane	115	(62-161) %REC	01/25/11	01/27/11
•		TPH-P (GRO)	ND	2.3 mg/Kg-dry	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	ND	460 μg/Kg-dry	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND	12 µg/Kg-dry	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND	23 µg/Kg-dry	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	23 μg/Kg-dry	01/25/11	01/25/11
		Benzene	ND	12 µg/Kg-dry	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND	23 µg/Kg-dry	01/25/11	01/25/11
		Toluene	ND	12 µg/Kg-dry	01/25/11	01/25/11
		Ethylbenzene	ND	12 µg/Kg-dry	01/25/11	01/25/11
		m,p-Xylene	ND	12 μg/Kg-dry	01/25/11	01/25/11
		o-Xylene	ND	12 μg/Kg-dry	01/25/11	01/25/11
		Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	104	(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	01/25/11	01/25/11



Client ID :	GB-23-30-01-012011					
Lab ID :	CHH11012401-03A	TPH-E (Fuel Product)	ND	13 mg/Kg-dry	01/25/11	01/27/11
Date Sampled	01/20/11 10:10	Surr: Nonane	113	(62-161) %REC	01/25/11	01/27/11
•		TPH-P (GRO)	ND	2.3 mg/Kg-dry	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	ND	450 µg/Kg-dry	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND	11 ug/Kg-dry	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND	23 µg/Kg-dry	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	23 µg/Kg-dry	01/25/11	01/25/11
		Benzene	ND	11 µg/Kg-dry	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND	23 µg/Kg-dry	01/25/11	01/25/11
		Toluene	ND	11 µg/Kg-dry	01/25/11	01/25/11
		Ethylbenzene	ND	11 µg/Kg-dry	01/25/11	01/25/11
		m,p-Xylene	ND	11 µg/Kg-dry	01/25/11	01/25/11
		o-Xvlene	ND	11 µg/Kg-drv	01/25/11	01/25/11
		Surr: 1.2-Dichloroethane-d4	92	(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	105	(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	01/25/11	01/25/11
		Sum i Biomonacioomzene	,0	(10 150) / 11(20	01/20/11	01120111
Client ID :	GB-23-32.5-01-01201	1				
Lab ID :	CHH11012401-04A	TPH-E (Fuel Product)	ND	12 mg/Kg-dry	01/25/11	01/27/11
Date Sampled	01/20/11 10:30	Surr: Nonane	130	(62-161) %REC	01/25/11	01/27/11
		TPH-P (GRO)	ND	1.9 mg/Kg-dry	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	ND	390 μg/Kg-dry	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND	9.7 μg/Kg-dry	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND	20 μg/Kg-dry	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 μg/Kg-dry	01/25/11	01/25/11
		Benzene	ND	9.7 μg/Kg-dry	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND	20 μg/Kg-dry	01/25/11	01/25/11
		Toluene	ND	9.7 µg/Kg-dry	01/25/11	01/25/11
		Ethylbenzene	ND	9.7 μg/Kg-dry	01/25/11	01/25/11
		m,p-Xylene	ND	9.7 μg/Kg-dry	01/25/11	01/25/11
		o-Xylene	ND	9.7 µg/Kg-dry	01/25/11	01/25/11
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	103	(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	01/25/11	01/25/11
Client ID .	CD 22 40 01 012011					
	GB-23-40-01-012011					
Lab ID :	CHH11012401-05A	TPH-E (Fuel Product)	ND	12 mg/Kg-dry	01/25/11	01/27/11
Date Sampled	01/20/11 10:55	Surr: Nonane	145	(62-161) %REC	01/25/11	01/27/11
		TPH-P (GRO)	ND	2.3 mg/Kg-dry	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	ND	460 μg/Kg-dry	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND	12 μg/Kg-dry	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND	23 μg/Kg-dry	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	23 μg/Kg-dry	01/25/11	01/25/11
		Benzene	ND	12 μg/Kg-dry	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND	23 μg/Kg-dry	01/25/11	01/25/11
		Toluene	ND	12 μg/Kg-dry	01/25/11	01/25/11
		Ethylbenzene	ND	12 μg/Kg-dry	01/25/11	01/25/11
		m,p-Xylene	ND	12 μg/Kg-dry	01/25/11	01/25/11
		o-Xylene	ND	12 μg/Kg-dry	01/25/11	01/25/11
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	102	(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	01/25/11	01/25/11



Client ID :	GB-23-50-01-012011					
Lab ID :	CHH11012401-06A	TPH-E (Fuel Product)	ND	13 mg/Kg-dry	01/25/11	01/27/11
Date Sampled	01/20/11 11:30	Surr: Nonane	126	(62-161) %REC	01/25/11	01/27/11
•		TPH-P (GRO)	ND	2.7 mg/Kg-dry	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	2,200	530 µg/Kg-dry	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND	13 µg/Kg-dry	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND	27 μg/Kg-dry	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	27 μg/Kg-dry	01/25/11	01/25/11
		Benzene	ND	13 μg/Kg-dry	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND	27 µg/Kg-dry	01/25/11	01/25/11
		Toluene	ND	13 µg/Kg-dry	01/25/11	01/25/11
		Ethylbenzene	ND	13 µg/Kg-dry	01/25/11	01/25/11
		m,p-Xylene	ND	13 µg/Kg-dry	01/25/11	01/25/11
		o-Xylene	ND	13 µg/Kg-dry	01/25/11	01/25/11
		Surr: 1.2-Dichloroethane-d4	87	(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	105	(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	01/25/11	01/25/11
				(		
Client ID :	GB-22-10.5-01-01201	1				
Lab ID :	CHH11012401-07A	TPH-E (Fuel Product)	ND	13 mg/Kg-dry	01/25/11	01/27/11
Date Sampled	01/20/11 13:30	Surr: Nonane	101	(62-161) %REC	01/25/11	01/27/11
		TPH-P (GRO)	ND	2.6 mg/Kg-dry	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	ND	520 μg/Kg-dry	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND	13 μg/Kg-dry	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND	26 μg/Kg-dry	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	26 μg/Kg-dry	01/25/11	01/25/11
		Benzene	ND	13 μg/Kg-dry	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND	26 μg/Kg-dry	01/25/11	01/25/11
		Toluene	ND	13 μg/Kg-dry	01/25/11	01/25/11
		Ethylbenzene	ND	13 μg/Kg-dry	01/25/11	01/25/11
		m,p-Xylene	ND	13 μg/Kg-dry	01/25/11	01/25/11
		o-Xylene	ND	13 μg/Kg-dry	01/25/11	01/25/11
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	104	(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	01/25/11	01/25/11
Client ID :	GB-22-20-01-012011					
Lab ID :	CHH11012401-08A	TPH-E (Fuel Product)	ND	13 mg/Kg-dry	01/25/11	01/28/11
Date Sampled	01/20/11 13:51	Surr: Nonane	131	(62-161) %REC	01/25/11	01/28/11
Dute Samplea	01/20/11 15.51	TPH-P (GRO)	ND	25  mg/Kg-dry	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	ND	490 µg/K g-dry	01/25/11	01/25/11
		Methyl tert-butyl ether (MTRF)	ND	12 µg/Kg dry	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND	$72 \mu g/Kg - dry$	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	$25 \mu g/Kg - dry$	01/25/11	01/25/11
		Benzene	ND	$12 \mu g/Kg - dry$	01/25/11	01/25/11
		Tertiary Amyl Methyl Ethor (TAME)	ND	$12 \mu g/Kg dry$	01/25/11	01/25/11
			ND	$25 \mu g/Rg-dry$ $12 \mu g/Kg-dry$	01/25/11	01/25/11
		Totuche Ethylhanzana		12 µg/kg-dfy	01/25/11	01/25/11
		m n-Xylene		12 µg/Kg-dly	01/25/11	01/25/11
		n.p-Aylene	ND	12 µg/Kg-dfy	01/25/11	01/25/11
		Surr 1.2 Dichloroothana d4	100	12 µg/kg-dfy	01/25/11	01/25/11
		Surr Toluene_d8	101	(70-130) /0KEC (70-120) %PEC	01/25/11	01/25/11
		Surr: 4-Bromofluorohemzene	08	(70-130) 70KEC	01/25/11	01/25/11
		San T-DIOMONUOIUUCHZENE	70	(70-130) /0KEC	V1/2J/11	01/20/11



Client ID :	GB-22-22-01-012011						
Lab ID :	CHH11012401-09A	TPH-E (Fuel Product)	32	*	13 mg/Kg-dry	01/25/11	01/28/11
Date Sampled	01/20/11 13:55	Surr: Nonane	90		(62-161) %REC	01/25/11	01/28/11
-		TPH-P (GRO)	ND		2.4 mg/Kg-dry	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	ND		480 μg/Kg-dry	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND		12 µg/Kg-dry	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND		24 µg/Kg-dry	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		24 µg/Kg-dry	01/25/11	01/25/11
		Benzene	ND		12 µg/Kg-dry	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND		24 µg/Kg-drv	01/25/11	01/25/11
		Toluene	ND		12 µg/Kg-drv	01/25/11	01/25/11
		Ethylbenzene	ND		12 µg/Kg-dry	01/25/11	01/25/11
		m,p-Xvlene	ND		12 µg/Kg-dry	01/25/11	01/25/11
		o-Xylene	ND		12 ug/Kg-drv	01/25/11	01/25/11
		Surr: 1.2-Dichloroethane-d4	89		(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	105		(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	01/25/11	01/25/11
			20		(10 100) / 4400	01/20/11	
Client ID :	GB-22-30-01-012011						
Lab ID :	CHH11012401-10A	TPH-E (Fuel Product)	ND		13 mg/Kg-dry	01/25/11	01/28/11
Date Sampled	01/20/11 14:00	Surr: Nonane	117		(62-161) %REC	01/25/11	01/28/11
		TPH-P (GRO)	ND		2.3 mg/Kg-dry	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	ND		450 μg/Kg-dry	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND		11 μg/Kg-dry	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND		23 µg/Kg-dry	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		23 µg/Kg-dry	01/25/11	01/25/11
		Benzene	ND		11 µg/Kg-dry	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND		23 µg/Kg-dry	01/25/11	01/25/11
		Toluene	ND		11 µg/Kg-dry	01/25/11	01/25/11
		Ethylbenzene	ND		11 μg/Kg-dry	01/25/11	01/25/11
		m,p-Xylene	ND		11 µg/Kg-dry	01/25/11	01/25/11
		o-Xylene	ND		11 µg/Kg-dry	01/25/11	01/25/11
		Surr: 1,2-Dichloroethane-d4	101		(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	103		(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	01/25/11	01/25/11
<b>CIII</b>							
Client ID :	GB-22-32-01-012011						
Lab ID :	CHH11012401-11A	TPH-E (Fuel Product)	ND		12 mg/Kg-dry	01/25/11	01/28/11
Date Sampled	01/20/11 14:40	Surr: Nonane	117		(62-161) %REC	01/25/11	01/28/11
		TPH-P (GRO)	ND		2.0 mg/Kg-dry	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	ND		410 μg/Kg-dry	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND		10 μg/Kg-dry	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND		20 μg/Kg-dry	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		20 μg/Kg-dry	01/25/11	01/25/11
		Benzene	ND		10 μg/Kg-dry	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND		20 μg/Kg-dry	01/25/11	01/25/11
		Toluene	ND		10 μg/Kg-dry	01/25/11	01/25/11
		Ethylbenzene	ND		10 µg/Kg-dry	01/25/11	01/25/11
		m,p-Xylene	ND		10 μg/Kg-dry	01/25/11	01/25/11
		o-Xylene	ND		10 µg/Kg-dry	01/25/11	01/25/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	105		(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	01/25/11	01/25/11
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255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID :	GB-22-40-01-012011					
Lab ID :	CHH11012401-12A	TPH-E (Fuel Product)	ND	13 mg/Kg-dry	01/25/11	01/28/11
Date Sampled	01/20/11 15:20	Surr: Nonane	132	(62-161) %REC	01/25/11	01/28/11
L		TPH-P (GRO)	ND	2.3 mg/Kg-dry	01/26/11	01/26/11
		Tertiary Butyl Alcohol (TBA)	ND	460 μg/Kg-dry	01/26/11	01/26/11
		Methyl tert-butyl ether (MTBE)	ND	12 μg/Kg-dry	01/26/11	01/26/11
		Di-isopropyl Ether (DIPE)	ND	23 μg/Kg-dry	01/26/11	01/26/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	23 μg/Kg-dry	01/26/11	01/26/11
		Benzene	ND	12 µg/Kg-dry	01/26/11	01/26/11
		Tertiary Amyl Methyl Ether (TAME)	ND	23 μg/Kg-dry	01/26/11	01/26/11
		Toluene	ND	12 μg/Kg-dry	01/26/11	01/26/11
		Ethylbenzene	ND	12 μg/Kg-dry	01/26/11	01/26/11
		m,p-Xylene	ND	12 μg/Kg-dry	01/26/11	01/26/11
		o-Xylene	ND	12 µg/Kg-dry	01/26/11	01/26/11
		Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	01/26/11	01/26/11
		Surr: Toluene-d8	103	(70-130) %REC	01/26/11	01/26/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	01/26/11	01/26/11
Client ID :	GB-22-53-01-012011					
Lab ID :	CHH11012401-13A	TPH-E (Fuel Product)	ND	14 mg/Kg-dry	01/25/11	01/28/11
Date Sampled	01/20/11 17:05	Surr: Nonane	108	(62-161) %REC	01/25/11	01/28/11
		TPH-P (GRO)	ND	2.3 mg/Kg-dry	01/26/11	01/26/11
		Tertiary Butyl Alcohol (TBA)	ND	460 μg/Kg-dry	01/26/11	01/26/11
		Methyl tert-butyl ether (MTBE)	23	12 µg/Kg-dry	01/26/11	01/26/11
		Di-isopropyl Ether (DIPE)	ND	23 μg/Kg-dry	01/26/11	01/26/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	23 μg/Kg-dry	01/26/11	01/26/11
		Benzene	ND	12 μg/Kg-dry	01/26/11	01/26/11
		Tertiary Amyl Methyl Ether (TAME)	ND	23 μg/Kg-dry	01/26/11	01/26/11
		Toluene	ND	12 μg/Kg-dry	01/26/11	01/26/11
		Ethylbenzene	ND	12 μg/Kg-dry	01/26/11	01/26/11
		m,p-Xylene	ND	12 μg/Kg-dry	01/26/11	01/26/11
		o-Xylene	ND	12 µg/Kg-dry	01/26/11	01/26/11
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	01/26/11	01/26/11
		Surr: Toluene-d8	103	(70-130) %REC	01/26/11	01/26/11
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	01/26/11	01/26/11

\*TPH-E (Fuel Product) concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the TPH-E (Fuel Product) range.

Gasoline Range Organics (GRO) C4-C13

Note: Samples were received pre-preserved in Methanol.

This replaces the report signed 1/31/11 due to a change in the reporting limit for TBA, per client request.

Concentrations and reporting limits are based on dry weights. ND = Not Detected

Roger Scholl

Kandy Santur Walter Hirihow

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

2/7/11

**Report Date** 



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#### ANALYTICAL REPORT

CH2M Hill	Attn: Daniel Jablonski
1000 Wilshire Boulevard	Phone: (213) 228-8271
Los Angeles, CA 90017	Fax: (714) 424-2135
	Date Received : 01/22/11

Job: Norwalk

#### Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B Volatile Organic Compounds (VOCs) EPA Method SW8260B

				Reporting	Date	Date
		Parameter	Concentration	Limit	Extracted	Analyzed
Client ID :	QCEB-012011					
Lab ID :	CHH11012401-14A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/27/11	01/27/11
Date Sampled	01/20/11 17:30	Surr: Nonane	107	(49-145) %REC	01/27/11	01/27/11
•		TPH-P (GRO)	ND	0.050 mg/L	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND	1.0 μg/L	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	01/25/11	01/25/11
		Benzene	ND	0.50 μg/L	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	01/25/11	01/25/11
		Toluene	ND	0.50 µg/L	01/25/11	01/25/11
		Ethylbenzene	ND	0.50 µg/L	01/25/11	01/25/11
		m,p-Xylene	ND	0.50 μg/L	01/25/11	01/25/11
		o-Xylene	ND	0.50 μg/L	01/25/11	01/25/11
		Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	102	(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	01/25/11	01/25/11
Client ID :	GB-23-31-04-012111					
Lab ID :	CHH11012401-15A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/27/11	01/27/11
Date Sampled	01/21/11 09:40	Surr: Nonane	103	(49-145) %REC	01/27/11	01/27/11
		TPH-P (GRO)	ND	0.050 mg/L	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	ND	10 μg/L	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 μg/L	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND	1.0 μg/L	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 μg/L	01/25/11	01/25/11
		Benzene	ND	0.50 μg/L	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 μg/L	01/25/11	01/25/11
		Toluene	ND	0.50 μg/L	01/25/11	01/25/11
		Ethylbenzene	ND	0.50 μg/L	01/25/11	01/25/11
		m,p-Xylene	ND	0.50 μg/L	01/25/11	01/25/11
		o-Xylene	ND	0.50 μg/L	01/25/11	01/25/11
		Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	101	(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	01/25/11	01/25/11



Client ID :	GB-23-37-04-012111						
Lab ID :	CHH11012401-16A	TPH-E (Fuel Product)	ND		0.10 mg/L	01/27/11	01/27/11
Date Sampled	01/21/11 10:05	Surr: Nonane	95		(49-145) %REC	01/27/11	01/27/11
-		TPH-P (GRO)	ND		0.050 mg/L	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	01/25/11	01/25/11
		Benzene	ND		0.50 µg/L	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	01/25/11	01/25/11
		Toluene	ND		0.50 µg/L	01/25/11	01/25/11
		Ethylbenzene	ND		0.50 µg/L	01/25/11	01/25/11
		m,p-Xylene	ND		0.50 µg/L	01/25/11	01/25/11
		o-Xylene	ND		0.50 µg/L	01/25/11	01/25/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	104		(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	88		(70-130) %REC	01/25/11	01/25/11
Client ID :	GB-23-45-04-012111				. ,		
Lab ID :	CHH11012401-17A	TPH-E (Fuel Product)	ND		0.10 mg/J	01/27/11	01/27/11
Date Sampled	01/21/11 10:35	Surr: Nonane	102		(A0 145) % PEC	01/27/11	01/27/11
	0.0000000000000000000000000000000000000	TPH-P (GRO)	ND	V	(45-145) %KEC	01/26/11	01/2//11
		Tertiary Butyl Alcohol (TBA)	2 400	*	500 µg/I	01/26/11	01/26/11
		Melhyl tert-butyl ether (MTBE)	2,400 ND		0.50 µg/L	01/26/11	01/26/11
		Di-isonmovi Ether (DIPE)	ND		0.50 μg/L	01/26/11	01/26/11
		Fthyl Tertiary Butyl Ether (ETRE)	ND		1.0 μg/L	01/26/11	01/26/11
		Benzene	ND		1.0 μg/L	01/26/11	01/26/11
		Tertiany Amyl Methyl Ethor (TAME)	ND		0.30 μg/L	01/26/11	01/26/11
		Toluene			1.0 μg/L	01/20/11	01/26/11
		Fthylhenzene			0.30 µg/L	01/20/11	01/26/11
		m n-Xylene	ND		0.50 µg/L	01/26/11	01/26/11
		o-Xvlene	ND		0.50 µg/L	01/26/11	01/26/11
		Surr 1.2-Dichlomethane d4	05		(70, 120) % PEC	01/26/11	01/26/11
		Surr Tohene-de	93		(70-130) %REC	01/26/11	01/26/11
		Surr 4-Bromofluorobenzene	05		(70-130) %REC	01/26/11	01/26/11
	0.000	Sunt 4-Biomonuoloociizene	95		(70-130) %REC	01/20/11	01/20/11
Client ID :	QCEB-012111						
	CHH11012401-18A	TPH-E (Fuel Product)	ND		0.10 mg/L	01/27/11	01/27/11
Date Sampled	01/21/11 10:25	Surr: Nonane	105		(49-145) %REC	01/27/11	01/27/11
		TPH-P (GRO)	ND		0.050 mg/L	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	ND		10 μg/L	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND		0.50 μg/L	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND		1.0 μg/L	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 μg/L	01/25/11	01/25/11
		Benzene	ND		0.50 μg/L	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	01/25/11	01/25/11
		Toluene	ND		0.50 μg/L	01/25/11	01/25/11
		Ethylbenzene	ND		0.50 µg/L	01/25/11	01/25/11
		m,p-Xylene	ND		0.50 µg/L	01/25/11	01/25/11
		o-Xylene	ND		0.50 µg/L	01/25/11	01/25/11
		Surr: 1,2-Dichloroethane-d4	90		(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	102		(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	90		(70-130) %REC	01/25/11	01/25/11


Client ID :	GB-22-31-04-012111					
Lab ID :	CHH11012401-19A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/27/11	01/27/11
Date Sampled	01/21/11 12:15	Surr: Nonane	107	(49-145) %REC	01/27/11	01/27/11
		TPH-P (GRO)	ND	0.050 mg/L	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	01/25/11	01/25/11
		Benzene	ND	0.50 µg/L	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	01/25/11	01/25/11
		Toluene	ND	0.50 µg/L	01/25/11	01/25/11
		Ethylbenzene	ND	0.50 µg/L	01/25/11	01/25/11
		m,p-Xylene	ND	0.50 µg/L	01/25/11	01/25/11
		o-Xylene	ND	0.50 µg/L	01/25/11	01/25/11
		Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	102	(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	87	(70-130) %REC	01/25/11	01/25/11
Client ID .	(D) 00 00 04 04 04 04 04		-			
Chent ID:	GB-22-37-04-012111					
Lab ID :	CHH11012401-20A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/27/11	01/27/11
Date Sampled	01/21/11 12:50	Surr: Nonane	106	(49-145) %REC	01/27/11	01/27/11
		TPH-P (GRO)	ND	0.050 mg/L	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	ND	10 μg/L	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 μg/L	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND	1.0 μg/L	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 μg/L	01/25/11	01/25/11
		Benzene	ND	0.50 μg/L	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 μg/L	01/25/11	01/25/11
		Toluene	ND	0.50 μg/L	01/25/11	01/25/11
		Ethylbenzene	ND	0.50 µg/L	01/25/11	01/25/11
		m,p-Xylene	ND	0.50 μg/L	01/25/11	01/25/11
		o-Xylene	ND	0.50 µg/L	01/25/11	01/25/11
		Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	102	(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	88	(70-130) %REC	01/25/11	01/25/11
Client ID :	GB-22-45-04-012111					
Lab ID :	CHH11012401-21A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/27/11	01/27/11
Date Sampled	01/21/11 13:10	Surr: Nonane	107	(49-145) %REC	01/27/11	01/27/11
•		TPH-P (GRO)	ND	0.050 mg/L	01/25/11	01/25/11
		Tertiary Butyl Alcohol (TBA)	110	10 µg/L	01/25/11	01/25/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	01/25/11	01/25/11
		Benzene	ND	0.50 µg/L	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 μg/L	01/25/11	01/25/11
		Toluene	ND	0.50 µg/L	01/25/11	01/25/11
		Ethylbenzene	ND	0.50 µg/L	01/25/11	01/25/11
		m,p-Xylene	ND	0.50 µg/L	01/25/11	01/25/11
		o-Xylene	ND	0.50 µg/L	01/25/11	01/25/11
		Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	104	(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	01/25/11	01/25/11



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Client ID :	QCTB-012011					
Lab ID :	CHH11012401-22A	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	01/25/11	01/25/11
Date Sampled	01/20/11 00:00	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	01/25/11	01/25/11
		Di-isopropyl Ether (DIPE)	ND	1.0 μg/L	01/25/11	01/25/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	01/25/11	01/25/11
		Benzene	ND	0.50 µg/L	01/25/11	01/25/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	01/25/11	01/25/11
		Toluene	ND	0.50 μg/L	01/25/11	01/25/11
		Ethylbenzene	ND	0.50 µg/L	01/25/11	01/25/11
		m,p-Xylene	ND	0.50 µg/L	01/25/11	01/25/11
		o-Xylene	ND	0.50 µg/L	01/25/11	01/25/11
		Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	01/25/11	01/25/11
		Surr: Toluene-d8	101	(70-130) %REC	01/25/11	01/25/11
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	01/25/11	01/25/11

\*This analyte was analyzed separately in order to achieve lower reporting limits for the other analytes.

Gasoline Range Organics (GRO) C4-C13

V = Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

1/31/11

**Report Date** 



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#### **VOC Sample Preservation Report**

Work Order: CHH11012401	Job: Norwalk						
Alpha's Sample ID	Client's Sample ID	Matrix	рН				
11012401-14A	QCEB-012011	Aqueous	2				
11012401-15A	GB-23-31-04-012111	Aqueous	6				
11012401-16A	GB-23-37-04-012111	Aqueous	6				
11012401-17A	GB-23-45-04-012111	Aqueous	2				
11012401-18A	QCEB-012111	Aqueous	2				
11012401-19A	GB-22-31-04-012111	Aqueous	6				
11012401-20A	GB-22-37-04-012111	Aqueous	6				
11012401-21A	GB-22-45-04-012111	Aqueous	2				
11012401-22A	QCTB-012011	Aqueous	2				

1/31/11 Report Date



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Date: 31-Jan-11	QC Summary Report Work C	<b>)rder:</b> 2401
Method Blank File ID: 2A01241143.D Sample ID: MBLK-25866 Analyte	Type       MBLK       Test Code:       EPA Method       SW8015B/C       Ext         Batch ID:       25866       Analysis Date:       01/27/2011       15         Units :       mg/Kg       Run ID:       FID_2_110125A       Prep Date:       01/25/2011       10         Result       PQL       SpkVal       SpkRefVal       %REC       LCL(ME)       UCL(ME)       RPDRefVal       %RPD(Limit)	27 :47 :) Qual
TPH-E (Fuel Product) Surr: Nonane	ND 5 7.33 6 122 62 161	
Laboratory Control Spike File ID: 2A01241144.D Sample ID: LCS-25866	Type         LCS         Test Code:         EPA Method         SW8015B/C         Ext           Batch ID:         25866         Analysis         Date:         01/27/2011         15           Units :         mg/Kg         Run ID:         FID_2_110125A         Prep Date:         01/25/2011         10	53 47
Analyte TPH-E (DRO) Surr: Nonane	Result         PQL         SpkVal         SpkRefVal         %REC         LCL(ME)         UCL(ME)         RPDRefVal         %RPD(Limit           102         5         100         102         70         130           7.54         6         126         62         161	) Quai
Sample Matrix Spike File ID: 2A01241160.D Sample ID: 11012401-05AMS Analyte	Type         MS         Test Code:         EPA Method         SW8015B/C         Ext           Batch ID:         25866         Analysis         Date:         01/27/2011         22           Units :         mg/Kg         Run ID:         FID_2_110125A         Prep Date:         01/25/2011         10           Result         PQL         SpkVal         SpkRefVal         %REC         LCL(ME)         UCL(ME)         RPDRefVal         %RPD(Limitid)	:37 :47 ) Qual
TPH-E (DRO) Surr: Nonane	52.9 5 50 0 106 50 149 3.79 3 126 62 161	i <u>w</u>
Sample Matrix Spike Duplicate File ID: 2A01241161.D Sample ID: 11012401-05AMSD Analyte	Type       MSD       Test Code:       EPA Method       SW3015B/C       Ext         Batch ID:       25866       Analysis       Date:       01/27/2011       23         Units :       mg/Kg       Run ID:       FID_2_110125A       Prep Date:       01/25/2011       10         Result       PQL       SpkVal       SpkRefVal       %REC       LCL(ME)       UCL(ME)       RPDRefVal       %RPD(Limit)	:02 :47 ) Qual
TPH-E (DRO) Surr: Nonane	54.6         5         50         0         109         50         149         52.88         3.3(46)           3.81         3         127         62         161         3.3(46)	

#### **Comments:**



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Date: 31-Jan-11	(	)C S	ummar	y Repoi	t				Work Orde 11012401	er:
Method Blank File ID: 7A01211169.D Sample ID: MBLK-25882 Analyte	Units : <b>mg/L</b> Result	Type I	MBLK To Ba Run ID: FI SpkVal	est Code: E atch ID: <b>258</b> D_7_11012 SpkRefVal	PA Met 82 7A %REC	LCL(ME)	015B/C Ex Analy Prep UCL(ME)	rt /sis Date: Date: RPDRef\	01/27/2011 10:54 01/27/2011 09:04 /al %RPD(Limit)	Qual
TPH-E (Fuel Product) Surr: Nonane	ND 0.153	0.1	1 0.15		102	49	145			
Laboratory Control Spike File ID: 7A01211170.D Sample ID: LCS-25882 Analyte	Units : <b>mg/L</b> Result	Type I	- <b>CS</b> To Ba Run ID: <b>FI</b> SokVal	est Code: E atch ID: 258 D_7_11012 SpkReft/al	PA Met 82 7A %REC	hod SW8	015B/C Ex Analy Prep UCL (ME)	rt vsis Date: Date: RPDRef\	01/27/2011 11:20 01/27/2011 09:04 /al_%RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane	2.5 0.162	0.0	5 2.5 0.15		99.8 108	70 49	130 145			
Sample Matrix Spike File ID: 7A01211173.D Sample ID: 11012602-01AMS Analyte	Units : <b>mg/L</b> Result	Type I	<b>VIS</b> To Ba Run ID: <b>FI</b> SpkVal	est Code: El atch ID: 258 D_7_11012 SpkRefVal	PA Met 82 7A %REC	hod SW80	015B/C Ex Analy Prep UCL(ME)	t sis Date: Date: RPDRef\	01/27/2011 12:39 01/27/2011 09:04 /al %RPD(Limit)	Quai
TPH-E (DRO) Surr: Nonane	2.43 0.146	0.0	5 2.5 0.15	0	97 97	53 49	150 145			
Sample Matrix Spike Duplicate File ID: 7A01211174.D Sample ID: 11012602-01AMSD Analyte	Units : <b>mg/L</b> Result	Type I	<b>ISD</b> Te Ba Run ID: <b>Fi</b> SpkVal	est Code: El atch ID: <b>258</b> D_7_11012 SpkRefVal	PA Met 82 7A %REC	hod SW8	)15B/C Ex Analy Prep UCL(ME)	t sis Date: Date: RPDRef\	01/27/2011 13:05 01/27/2011 09:04 /al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane	2.36 0.155	0.05	5 2.5 0.15	0	94 103	53 49	150 145	2.432	3.0(47)	

#### **Comments:**



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Method Blank         Type MBLK         Test Code: EPA Method SW8015B/C           File ID: 11012509.D         Batch ID: MS0055860B         Analysis Date: 01/25/2011 11:17           Sample ID:         MBLK MS0853860B         Units: mg/Kg         Run ID: MS0.08_110125A         Prep Date:         01/25/2011 11:17         Or           TPH-P (GRO)         ND         1         1         2         96         70         130         5           Sur: 12-Dichloroethane-d4         0.192         0.2         96         70         130         5           Sur: 12-Dichloroethane-d4         0.192         0.2         98         70         130         5           Sur: 12-Dichloroethane-d4         0.192         0.2         98         70         130         5           Laboratory Control Spike         Type LCS         Test Code: EPA Method SW8015B/C         5         5           Sample ID:         GLCS MS085860B         Units: mg/Kg         Run ID: MS0.08_110125A         Prep Date:         01/25/2011 12:55           Sample ID:         GLCS MS085860B         Units: mg/Kg         Run ID: MS0.08_110125A         Prep Date:         01/25/2011 12:55           Sur: 12-Dichloroethane-d4         0.394         0.4         99         70         130         5	Date: 31-Jan-11	C	QC S	Sui	nmar	y Repoi	t				Work Orde 11012401	er:
Sample ID:         MBLK MS0855860B         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 11:17           Analyte         Result         POL         SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)         Qu           Surr: 12-Dichloroethane-d4         0.192         0.2         96         70         130           Surr: 4-Bromofluorobenzene         0.197         0.2         98         70         130           Laboratory Control Spike         Type LCS         Test Code: EPA Method SW8015B/C         Batch ID: MS0855860B         Analysis Date:         01/25/2011 12:55           Sample ID:         GLCS MS0855860B         Units : mg/Kg         Run ID: MSD_08_11012SA         Prep Date:         01/25/2011 12:55           Analyte         Result         POL         SpkVal         SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)         Qu           TPH-P (GRO)         16.6         2         16         104         63         148           Surr: 12-Dichloroethane-d4         0.394         0.4         98         70         130           Surr: 12-Dichloroethane-d4         0.394         0.4         98         70         130           Surr: 12-Dichloroethane-d4         0.397         0.4         98         70         <	Method Blank File ID: 11012509.D		Туре	MB	LK Te Ba	est Code: E atch ID: MS	PA Met 08S586	hod SW80 0B	015B/C Analy	sis Date:	01/25/2011 11:17	
Arlatyte         Result         PQL         SpkVal         SpkVal </th <th>Sample ID: MBLK MS08S5860B</th> <th>Units : mg/K</th> <th>g</th> <th>R</th> <th>un ID: M</th> <th>SD_08_110</th> <th>125A</th> <th>_</th> <th>Prep</th> <th>Date:</th> <th>01/25/2011 11:17</th> <th></th>	Sample ID: MBLK MS08S5860B	Units : mg/K	g	R	un ID: M	SD_08_110	125A	_	Prep	Date:	01/25/2011 11:17	
TPH-P (GRO)         ND         1           Surr: 12-Dichloroethane-d4         0.197         0.2         96         70         130           Surr: 14-Bromoflucrobenzene         0.197         0.2         98         70         130           Laboratory Control Spike         Type LCS         Test Code: EPA Method SW8015B/C         File ID: 11012513.D         Batch ID: MS0655600B         Analysis Date: 01/25/2011 12:55           Sample ID:         GLCS MS0855860B         Units : mg/Kg         Run ID: MS0E55600B         Analysis Date: 01/25/2011 12:55           Analyte         Result         POL         SpkVal         SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)         Qu           TPH-P (GRO)         16.6         2         16         104         63         148           Surr: 12-Dichloroethane-d4         0.394         0.4         98         70         130           Surr: 4Bromoflucrobenzene         0.425         0.4         106         70         130           Surr: 4Bromoflucrobenzene         0.425         0.4         106         70         130           Sample Matrix Spike         Type MS         Test Code: EPA Method SW8015B/C         11/25/2011 13:19           Sample ID:         11012401-02AGS         Units : mg/Kg         Run ID: MS		Result	PQL		SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
Sur: 1,2-Dichloroethane-d4         0,192         0,2         96         70         130           Sur: Tolleme-d8         0,21         0,2         105         70         130           Laboratory Control Spike         Type LCS         Test Code: EPA Method SW8015B/C         Eatch ID: MS0855860B         Analysis Date:         01/25/2011 12:55           Sample ID:         GLCS MS0855860B         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 12:55           Analyte         Result         POL         SpkKefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)         Qt           TPH-P (GRO)         16.6         2         16         104         63         148           Surr: 12-Dichioroethane-d4         0.394         0.4         98         70         130           Surr: 12-Dichioroethane-d4         0.39	TPH-P (GRO)	ND		1								
Sur:         0.21         0.2         105         70         130           Sur:         4.Bromofluorobenzene         0.197         0.2         98         70         130           Laboratory Control Spike         Type LCS         Test Code:         EPA Method SW8015B/C         File ID:         11012513.D         Batch ID:         MS0555860B         Analysis Date:         01/25/2011         12:55           Sample ID:         GLCS MS0855860B         Units : mg/Kg         Run ID:         MSD_08_110125A         Prep Date:         01/25/2011         01/25/2011         12:55           Analyte         Result         POL         SpkVal         SpkRefVal %REC         LCL(ME)         UCL(ME)         RPDRefVal %RPD(Limit)         Qu           TPH-P (GRO)         16.6         2         16         104         63         148         Sur: 1.2-Dichloroethane-d4         0.394         0.4         98         70         130           Sur:         1.2-Dichloroethane-d4         0.394         0.4         98         70         130           Sample Matrix Spike         Type MS         Test Code:         EPA Method SW8015B/C         File ID: 11012514.D         Batch ID: MSD_08_110125A         Prep Date:         01/25/2011 13:19           Analyte         R	Surr: 1,2-Dichloroethane-d4	0.192			0.2		96	70	130			
Sun: 4-Bioindicoberizene         0.197         0.2         98         70         130           Laboratory Control Spike         Type LCS         Test Code: EPA Mathod SW8015B/C         Batch ID: MS0855860B         Analysis Date:         01/25/2011 12:55           Sample ID:         GLCS MS0855860B         Units: mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 12:55           Analyte         Result         PQL         SpkVal         SpkRefVal %REC         LCL(ME)         UL(ME)         RPDRefVal %RPD(Limit)         Quitation           TPH-P (GRO)         16.6         2         16         104         63         148           Surr: 1-2-Dichloroethane-d4         0.394         0.4         98         70         130           Surr: 4-Bromofluorobenzene         0.425         0.4         106         70         130           Sample ID:         11012401-02AGS         Units: mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 13:19           Analyte         Result         PQL         SpkVal         SpkRefVal %REC         UCL(ME) RPDRefVal %RPD(Limit)         Quitation           Sample ID:         1012401-02AGS         Units: mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 13:49	Surr: A Bromofluerahannaa	0.21			0.2		105	70	130			
Laboratory Control Spike         Type LCS         Test Code: EPA Method SW8015B/C           File ID: 11012513.D         Batch ID: MS0855860B         Analysis Date: 01/25/2011 12:55           Sample ID:         GLCS MS0855860B         Units : mg/Kg         Run ID: MS0_p8_110125A         Prep Date: 01/25/2011 12:55           Analyte         Result         PQL         SpkVal         SpkRefVal %REC LCL(ME) ULCL(ME) RPDRefVal %RPD(Limit)         Qu           TPH-P (GRO)         16.6         2         16         104         63         148           Surr: 1.2-Dichloroethane-d4         0.394         0.4         99         70         130           Surr: 4-Bromofluorobenzene         0.425         0.4         106         70         130           Sample ID:         11012401-02AGS         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 13:19           Sample ID:         11012401-02AGS         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 13:19           Surr: 1.2-Dichloroethane-d4         0.397         0.4         99         70         130           Surr: 1.2-Dichloroethane-d4         0.397         0.4         99         70         130           Surr: 1.2-Dichloroethane-d4         0.397         0.4 </td <td>Surr. 4-Bromonuorobenzene</td> <td>0.197</td> <td></td> <td></td> <td>0.2</td> <td></td> <td>98</td> <td>70</td> <td>130</td> <td></td> <td></td> <td></td>	Surr. 4-Bromonuorobenzene	0.197			0.2		98	70	130			
File ID: 11012513.D       Batch ID: MS0855860B       Analysis Date:       01/25/2011 12:55         Sample ID:       GLCS MS0855860B       Units : mg/Kg       Run ID: MS0_08_110125A       Prep Date:       01/25/2011 12:55         Analyte       Result       PQL       SpkVal       SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)       Qu         TPH-P (GRO)       16.6       2       16       104       63       148         Surr: 1.2-Dichloroethane-d4       0.394       0.4       98       70       130         Surr: 1.2-Dichloroethane-d4       0.394       0.4       98       70       130         Surr: 1.2-Dichloroethane-d4       0.394       0.4       98       70       130         Surr: 1.2-Dichloroethane-d4       0.393       0.4       98       70       130         Sample Matrix Spike       Type MS       Test Code: EPA Method SW8015B/C       File ID: 11012401-02AGS       Nalysis Date:       01/25/2011 13:19         Sample ID:       11012401-02AGS       Units : mg/Kg       Run ID: MSD_08_110125A       Prep Date:       01/25/2011 13:19         Sample ID:       11012401-02AGS       Units : mg/Kg       Run ID: MSD_08_110125A       Prep Date:       01/25/2011 13:19         Surr: 1.2-Dichloroethane-d4       0.397 <t< td=""><td>Laboratory Control Spike</td><td></td><td>Туре</td><td>LCS</td><td>5 Te</td><td>est Code: E</td><td>PA Met</td><td>hod SW8(</td><td>015B/C</td><td></td><td></td><td></td></t<>	Laboratory Control Spike		Туре	LCS	5 Te	est Code: E	PA Met	hod SW8(	015B/C			
Sample ID:         GLCS MS08585860B         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 12:55           Analyte         Result         PQL         SpkVal         SpkRefVal %REC         LCL(ME)         UCL(ME) RPDRefVal %RPD(Limit)         Qu           TPH-P (GRO)         16.6         2         16         104         63         148           Surr: 12-Dichloroethane-d4         0.394         0.4         99         70         130           Surr: 34-Bromofluorobenzene         0.425         0.4         106         70         130           Sample ID:         11012401-02AGS         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 13:19           Analyte         Type MS         Test Code:         EPA Method SW8015B/C         Batch ID: MS00855860B         Analysis Date:         01/25/2011 13:19           Sample ID:         11012401-02AGS         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 13:19           Analyte         Result         PQL         SpkKal SpkRefVal %REC         LCL(ME)         UCL(ME) RPDRefVal %RPD(Limit)         Qu           TPH-P (GRO)         15.5         2         16         97         35         166               Surr: 1,2	File ID: 11012513.D				Ba	atch ID: MS	08S586	0B	Analy	sis Date:	01/25/2011 12:55	
Analyte         Result         PQL         SpkVal         SpkVal <td>Sample ID: GLCS MS08S5860B</td> <td>Units : mg/K</td> <td>ġ</td> <td>R</td> <td>un ID: M</td> <td>SD_08_110</td> <td>125A</td> <td></td> <td>Prep</td> <td>Date:</td> <td>01/25/2011 12:55</td> <td></td>	Sample ID: GLCS MS08S5860B	Units : mg/K	ġ	R	un ID: M	SD_08_110	125A		Prep	Date:	01/25/2011 12:55	
TPH-P (GR0)       16.6       2       16       104       63       148         Surr. 1,2-Dichloroethane-d4       0.394       0.4       99       70       130         Surr. 1,2-Dichloroethane-d8       0.39       0.4       98       70       130         Surr. 4-Bromofluorobenzene       0.425       0.4       106       70       130         Sample Matrix Spike       Type MS       Test Code: EPA Method SW8015B/C       Batch ID: MS085860B       Analysis Date: 01/25/2011 13:19         Sample ID:       11012401-02AGS       Units : mg/Kg       Run ID: MSD_08_110125A       Prep Date: 01/25/2011 13:19         Analyte       Result       PQL       SpkVal       SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)       Qu         TPH-P (GR0)       15.5       2       16       0       97       35       166         Surr: 7.2/Dichloroethane-d4       0.397       0.4       98       70       130       Surr: 7.01uene-d8       0.391       0.4       98       70       130         Surr: 1,2-Dichloroethane-d4       0.397       0.4       98       70       130       Surr: 1,2-Dichloroethane-d4       0.391       0.4       98       70       130         Surr: 1,2-Dichloroethane-d4       0.391	Analyte	Result	PQL		SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
Surr: 1,2-Dichloroethane-d4         0.394         0.4         99         70         130           Surr: Toluene-d8         0.39         0.4         98         70         130           Surr: 4-Bromofluorobenzene         0.425         0.4         106         70         130           Sample Matrix Spike         Type MS         Test Code: EPA Method SW8015E/C         Batch ID: MS0855860B         Analysis Date: 01/25/2011 13:19           Sample ID:         11012401-02AGS         Units : mg/Kg         Run ID: MS0_08_110125A         Prep Date:         01/25/2011 13:19           Analyte         Result         PQL         SpkVal         SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)         Qu           TPH-P (GRO)         15.5         2         16         99         70         130           Surr: 1-2-Dichloroethane-d4         0.397         0.4         99         70         130           Surr: 4-Bromofluorobenzene         0.424         0.4         106         70         130           Surr: 1-2-Dichloroethane-d4         0.397         0.4         99         70         130           Surr: 1-2-Dichloroethane-d4         0.397         0.4         98         70         130           Surr: 1-101251.D         Test Code: EPA M	TPH-P (GRO)	16.6		2	16		104	63	148			
Surr: Toluene-d8         0.39         0.4         98         70         130           Surr: 4-Bromofluorobenzene         0.425         0.4         106         70         130           Sample Matrix Spike         Type MS         Test Code: EPA Method SW8015B/C         Batch ID: MS0855860B         Analysis Date:         01/25/2011 13:19           Sample ID:         11012401-02AGS         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 13:19           Analyte         Result         PQL         SpkVal         SpkRefVal %REC         LCL(ME)         UCL(ME) RPDRefVal %RPD(Limit)         Qu           TPH-P (GRO)         15.5         2         16         0         97         35         166           Surr: 1,2-Dichloroethane-d4         0.397         0.4         98         70         130           Surr: T-Uene-d8         0.391         0.4         98         70         130           Surr: Toluene-d8         0.391         0.4         98         70         130           Sample Matrix Spike Duplicate         Type MSD         Test Code: EPA Method SW8015B/C         Batch ID: MS0855860B         Analysis Date:         01/25/2011 13:44           Sample ID:         11012401-02AGSD         Units : mg/Kg         Run	Surr: 1,2-Dichloroethane-d4	0.394			0.4		99	70	130			
Surr: 4-Bromofiluorobenzene         0.425         0.4         106         70         130           Sample Matrix Spike File ID: 11012514.D         Type MS         Test Code: EPA Method SW8015B/C Batch ID: MS0855860B         Analysis Date:         01/25/2011 13:19           Sample ID:         11012401-02AGS         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 13:19           Analyte         Result         PQL         SpkVal         SpkVal         SpkCel LCL(ME)         UCL(ME) RPDRefVal %RPD(Limit)         Qu           TPH-P (GRO)         15.5         2         16         0         97         35         166           Surr: 1,2-Dichloroethane-d4         0.397         0.4         98         70         130           Surr: 64-Bromofiluorobenzene         0.424         0.4         106         70         130           Sample Matrix Spike Duplicate File ID:         Type MSD         Test Code: EPA Method SW8015B/C         Batch ID: MS0855860B         Analysis Date:         01/25/2011 13:44           Sample ID:         11012401-02AGSD         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 13:44           Sample ID:         11012401-02AGSD         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 1	Surr: Toluene-d8	0.39			0.4		98	70	130			
Sample Matrix Spike         Type MS         Test Code: EPA Method SW8015B/C           File ID: 11012514.D         Batch ID: MS0855860B         Analysis Date: 01/25/2011 13:19           Sample ID: 11012401-02AGS         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date: 01/25/2011 13:19           Analyte         Result         PQL         SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)         Qu           TPH-P (GRO)         15.5         2         16         0         97         35         166           Surr: 1,2-Dichloroethane-d4         0.397         0.4         99         70         130         surr: 1,2-Dichloroethane-d4         0.391         0.4         98         70         130           Surr: 4-Bromofiluorobenzene         0.424         0.4         106         70         130         surr: 1,2-Dichloroethane-d4         0.125/2011 13:44           Sample Matrix Spike Duplicate         Type MSD         Test Code: EPA Method SW8015B/C         Batch ID: MS0855860B         Analysis Date: 01/25/2011 13:44           Sample ID: 11012515.D         Batch ID: MS0_08_110125A         Prep Date: 01/25/2011 13:44         Prep Date: 01/25/2011 13:44           Analyte         Result         PQL         SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)         Qu           TPH-P (GRO)	Surr: 4-Bromofluorobenzene	0.425			0.4		106	70	130			
File ID: 11012514.D       Batch ID: MS0855860B       Analysis Date:       01/25/2011 13:19         Sample ID:       11012401-02AGS       Units : mg/Kg       Run ID: MSD_08_110125A       Prep Date:       01/25/2011 13:19         Analyte       Result       PQL       SpkVal       SpkVal       SpkRefVal %REC       LCL(ME)       UCL(ME) RPDRefVal %RPD(Limit)       Quite interval in	Sample Matrix Spike		Туре	MS	Te	est Code: E	PA Met	hod SW8(	015B/C			
Sample ID:         11012401-02AGS         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 13:19           Analyte         Result         PQL         SpkVal         SpkRefVal %REC         LCL(ME)         UCL(ME)         RPDRefVal %RPD(Limit)         Quick           TPH-P (GRO)         15.5         2         16         0         97         35         166           Surr: 1,2-Dichloroethane-d4         0.397         0.4         99         70         130         Surr:         Surr:         Surr:         1.06         70         130         Surr:         Su	File ID: 11012514.D				Ba	atch ID: MS	085586	0B	Analy	sis Date:	01/25/2011 13:19	
Analyte         Result         PQL         SpkVal         SpkRefVal         %REC         LCL(ME)         UCL(ME)         RPDRefVal         %RPD(Limit)         Qu           TPH-P (GRO)         15.5         2         16         0         97         35         166           Surr: 1,2-Dichloroethane-d4         0.397         0.4         99         70         130           Surr: Toluene-d8         0.391         0.4         98         70         130           Surr: 4-Bromofluorobenzene         0.424         0.4         106         70         130           Sample Matrix Spike Duplicate         Type MSD         Test Code: EPA Method SW8015B/C         Batch ID: MS0855860B         Analysis Date:         01/25/2011 13:44           Sample ID:         11012401-02AGSD         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 13:44           Analyte         Result         PQL         SpkVal         SpkRefVal         %REC LCL(ME)         UCL(ME) RPDRefVal         %RPD(Limit)         Qu           TPH-P (GRO)         14         2         16         0         87         35         166         15.54         10.7(33)           Surr: 1,2-Dichloroethane-d4         0.353         0.4         88	Sample ID: 11012401-02AGS	Units : mg/Kg	g	R	un ID: M	SD_08_110	125A		Prep	Date:	01/25/2011 13:19	
TPH-P (GRO)       15.5       2       16       0       97       35       166         Surr: 1,2-Dichloroethane-d4       0.397       0.4       99       70       130         Surr: Toluene-d8       0.391       0.4       98       70       130         Surr: 4-Bromofluorobenzene       0.424       0.4       106       70       130         Sample Matrix Spike Duplicate       Type MSD       Test Code: EPA Method SW8015B/C       Analysis Date:       01/25/2011 13:44         Sample ID:       11012401-02AGSD       Units : mg/Kg       Run ID: MSD_08_110125A       Prep Date:       01/25/2011 13:44         Analyte       Result       PQL       SpkVal       SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)       Qu         TPH-P (GRO)       14       2       16       0       87       35       166       15.54       10.7(33)         Surr: 1,2-Dichloroethane-d4       0.353       0.4       88       70       130         Surr: 7-Duene-d8       0.393       0.4       98       70       130         Surr: 4-Bromofluorobenzene       0.426       0.4       106       70       130	Analyte	Result	PQL		SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
Surr: 1,2-Dichloroethane-d4       0.397       0.4       99       70       130         Surr: Toluene-d8       0.391       0.4       98       70       130         Surr: Toluene-d8       0.44       98       70       130         Surr: 4-Bromofluorobenzene       0.424       0.4       106       70       130         Sample Matrix Spike Duplicate       Type MSD       Test Code: EPA Method SW8015B/C       Batch ID: MS08S5860B       Analysis Date:       01/25/2011 13:44         Sample ID:       11012401-02AGSD       Units : mg/Kg       Run ID: MSD_08_110125A       Prep Date:       01/25/2011 13:44         Analyte       Result       PQL       SpkVal       SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)       Qu         TPH-P (GRO)       14       2       16       0       87       35       166       15.54       10.7(33)         Surr: 1,2-Dichloroethane-d4       0.353       0.4       88       70       130         Surr: Toluene-d8       0.393       0.4       98       70       130         Surr: 4-Bromofluorobenzene       0.426       0.4       106       70       130	TPH-P (GRO)	15.5		2	16	0	97	35	166			
Surr:         Toluene-d8         0.391         0.4         98         70         130           Surr:         4-Bromofluorobenzene         0.424         0.4         106         70         130           Sample Matrix Spike Duplicate File ID:         Type MSD         Test Code:         EPA Method SW8015B/C           Batch ID:         MS0855860B         Analysis Date:         01/25/2011 13:44           Sample ID:         11012401-02AGSD         Units : mg/Kg         Run ID:         MSD_08_110125A         Prep Date:         01/25/2011 13:44           Analyte         Result         PQL         SpkVal         SpkRefVal %REC LCL(ME)         UCL(ME) RPDRefVal %RPD(Limit)         Qu           TPH-P (GRO)         14         2         16         0         87         35         166         15.54         10.7(33)           Surr:         1,2-Dichloroethane-d4         0.353         0.4         98         70         130           Surr:         0.426         0.4         106         70         130	Surr: 1,2-Dichloroethane-d4	0.397			0.4		99	70	130			
Surr: 4-Bromofluorobenzene         0.424         0.4         106         70         130           Sample Matrix Spike Duplicate File ID: 11012515.D         Type MSD         Test Code: EPA Method SW8015B/C Batch ID: MS08S5860B         Analysis Date:         01/25/2011 13:44           Sample ID:         11012401-02AGSD         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 13:44           Analyte         Result         PQL         SpkVal         SpkRefVal %REC LCL(ME)         UCL(ME) RPDRefVal %RPD(Limit)         Qu           TPH-P (GRO)         14         2         16         0         87         35         166         15.54         10.7(33)           Surr: 1,2-Dichloroethane-d4         0.353         0.4         98         70         130           Surr: Toluene-d8         0.393         0.4         98         70         130           Surr: 4-Bromofluorobenzene         0.426         0.4         106         70         130	Surr: Toluene-d8	0.391			0.4		98	70	130			
Sample Matrix Spike Duplicate         Type MSD         Test Code: EPA Method SW8015B/C           File ID: 11012515.D         Batch ID: MS08S5860B         Analysis Date: 01/25/2011 13:44           Sample ID:         11012401-02AGSD         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 13:44           Analyte         Result         PQL         SpkVal         SpkRefVal %REC LCL(ME)         UCL(ME) RPDRefVal %RPD(Limit)         Qu           TPH-P (GRO)         14         2         16         0         87         35         166         15.54         10.7(33)           Surr: 1,2-Dichloroethane-d4         0.353         0.4         88         70         130           Surr: Toluene-d8         0.393         0.4         98         70         130           Surr: 4-Bromofluorobenzene         0.426         0.4         106         70         130	Surr: 4-Bromotluorobenzene	0.424			0.4		106	70	130			
File ID:       11012515.D       Batch ID:       MS08S5860B       Analysis Date:       01/25/2011 13:44         Sample ID:       11012401-02AGSD       Units : mg/Kg       Run ID:       MSD_08_110125A       Prep Date:       01/25/2011 13:44         Analyte       Result       PQL       SpkVal       SpkRefVal       %REC       LCL(ME)       UCL(ME)       RPDRefVal       %RPD(Limit)       Qu         TPH-P (GRO)       14       2       16       0       87       35       166       15.54       10.7(33)         Surr:       1,2-Dichloroethane-d4       0.353       0.4       88       70       130         Surr:       Toluene-d8       0.393       0.4       98       70       130         Surr:       4-Bromofluorobenzene       0.426       0.4       106       70       130	Sample Matrix Spike Duplicate		Туре	MS	D Te	est Code: E	PA Met	hod SW80	)15B/C			
Sample ID:         11012401-02AGSD         Units : mg/Kg         Run ID: MSD_08_110125A         Prep Date:         01/25/2011 13:44           Analyte         Result         PQL         SpkVal         SpkRefVal %REC LCL(ME)         UCL(ME) RPDRefVal %RPD(Limit)         Qu           TPH-P (GRO)         14         2         16         0         87         35         166         15.54         10.7(33)           Surr: 1,2-Dichloroethane-d4         0.353         0.4         88         70         130           Surr: Toluene-d8         0.393         0.4         98         70         130           Surr: 4-Bromofluorobenzene         0.426         0.4         106         70         130	File ID: 11012515.D				Ba	atch ID: MS	085586	0B	Analy	sis Date:	01/25/2011 13:44	
Analyte         Result         PQL         SpkVal         SpkRefVal         %REC         LCL(ME)         UCL(ME)         RPDRefVal         %RPD(Limit)         Qu           TPH-P (GRO)         14         2         16         0         87         35         166         15.54         10.7(33)           Surr: 1,2-Dichloroethane-d4         0.353         0.4         88         70         130           Surr: Toluene-d8         0.393         0.4         98         70         130           Surr: 4-Bromofluorobenzene         0.426         0.4         106         70         130	Sample ID: 11012401-02AGSD	Units : mg/Kg	9	R	un ID: MS	SD 08 110	125A		Prep	Date:	01/25/2011 13:44	
TPH-P (GRO)         14         2         16         0         87         35         166         15.54         10.7(33)           Surr: 1,2-Dichloroethane-d4         0.353         0.4         88         70         130           Surr: Toluene-d8         0.393         0.4         98         70         130           Surr: 4-Bromofluorobenzene         0.426         0.4         106         70         130	Analyte	Result	PQL		SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
Surr: 1,2-Dichloroethane-d4         0.353         0.4         88         70         130           Surr: Toluene-d8         0.393         0.4         98         70         130           Surr: 4-Bromofluorobenzene         0.426         0.4         106         70         130	TPH-P (GRO)	14		2	16	. 0	87	35	166	15.54	10.7(33)	
Surr: Toluene-d8         0.393         0.4         98         70         130           Surr: 4-Bromofluorobenzene         0.426         0.4         106         70         130	Surr: 1,2-Dichloroethane-d4	0.353		-	0.4	Ŭ	88	70	130			
Surr: 4-Bromofluorobenzene 0.426 0.4 106 70 130	Surr: Toluene-d8	0.393			0.4		98	70	130			
	Surr: 4-Bromofluorobenzene	0.426			0.4		106	70	130			

#### **Comments:**



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 31-Jan-11	(	QC S	ummar	y Repor	t				Work Orde 11012401	er:
Method Blank File ID: 11012504.D		Туре М	ABLK Te Ba	est Code: El atch ID: MS	PA Met	hod SW8( 25B	)15B/C Analysi	is Date:	01/25/2011 09:42	
Sample ID: MBLK MS12W0125B	Units : ma/L		Run ID: M	SD 12 110	125A		Prep D	ate:	01/25/2011 09:42	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) F	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05	, i						****	
Surr: 1,2-Dichloroethane-d4	0.00894		0.01		89	70	130			
Surr: Toluene-d8	0.0105		0.01		105	70	130			
Surr: 4-Bromofluorobenzene	0.00895		0.01		90	70	130			
Laboratory Control Spike		Type L	.CS To	est Code: E	PA Met	hod SW80	015B/C			
File ID: 11012502.D			Ba	atch ID: MS	12W012	25B	Analys	is Date:	01/25/2011 08:57	
Sample ID: GLCS MS12W0125B	Units : mg/L		Run ID: M	SD 12 110	125A		Prep D	ate:	01/25/2011 08:57	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) F	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO)	0.396	0.05	6 04		99	70	130			
Surr: 1,2-Dichloroethane-d4	0.00828	0.00	0.01		83	70	130			
Surr: Toluene-d8	0.0105		0.01		105	70	130			
Surr: 4-Bromofluorobenzene	0.00983		0.01		98	70	130			
Sample Matrix Spike		Type M	AS TO	est Code: E	PA Met	hod SW8	015B/C			
File ID: 11012517.D			Ba	atch ID: MS	1 <b>2W</b> 012	25B	Analys	is Date:	01/25/2011 14:51	
Sample ID: 11012401-19AGS	Units : mg/L		Run ID: M	SD_12_110	125A		Prep D	ate:	01/25/2011 14:51	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) F	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO)	2.07	0,25	j 2	0	104	51	144			
Surr: 1,2-Dichloroethane-d4	0.0446		0.05		89	70	130			
Surr: Toluene-d8	0.051		0.05		102	70	130			
Surr: 4-Bromofluorobenzene	0.0486		0.05		97	70	130			
Sample Matrix Spike Duplicate		Туре 🛚	ASD TO	est Code: E	PA Met	hod SW80	015B/C			
File ID: 11012518.D			Ba	atch ID: MS	12W012	25B	Analys	is Date:	01/25/2011 15:13	
Sample ID: 11012401-19AGSD	Units : mg/L		Run ID: M	SD 12 110	125A		Prep D	ate:	01/25/2011 15:13	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) F	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO)	1.97	0.25	5 2	0	98	51	144	2.075	5 5.3(29)	
Surr: 1,2-Dichloroethane-d4	0.0421		0.05	•	84	70	130			
Surr: Toluene-d8	0.0511		0.05		102	70	130			
Surr: 4-Bromofluorobenzene	0.0482		0.05		96	70	130			

#### Comments:



<b>Date:</b> 07-Feb-11	(	QC Su	ummar	y Repor	t	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		<b>Work Ord</b> 11012401	er:
Method Blank File ID: 11012509.D		Type: M	BLK Te Ba	est Code: El atch ID: MSC	PA Met )8S586	hod SW82 0A	60B Analysis Date:	01/25/2011 11:17	
Sample ID: MBLK MS08S5860A	Units : µg/K	g	Run ID: M	SD_08_1101	125A		Prep Date:	01/25/2011 11:17	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	500							
Methyl tert-butyl ether (MTBE)	ND	5							
Di-isopropyl Ether (DIPE)	ND	20							
Ethyl Tertiary Butyl Ether (ETBE)	ND	20							
Benzene	ND	5							
Tertiary Amyl Methyl Ether (TAME)	ND	20							
	ND	5							
Elnyidenzene m.n. Yulono	ND	5							
n.p-Aylene		5							
Surr: 1.2-Dichloroethane-d4	102	5	200		06	70	120		
Surr: Toluene-d8	210		200		90 105	70	130		
Surr: 4-Bromofluorobenzene	197		200		98	70	130		
Laboratory Control Spike		Type: LO	<b>CS</b> Te	est Code: El	PA Met	hod SW82	260B	· · · · · · · · · · · · · · · · · · ·	
File ID: 11012510.D			Ba	atch ID: MS(	08\$586	0 <b>A</b>	Analysis Date:	01/25/2011 11:42	
Sample ID: I CS MS08S5860A	I Inits : ua/K	a	Run ID: M	SD 08 110	125A		Pren Date:	01/25/2011 11.42	
	Booult	9 POI	Cald (al				LICI (ME) PDDDof		Qual
	Result	FQL	эркуа	эрккегча	%REC				
Tertiary Butyl Alconol (TBA)	2400	1000	4000		60	14	156 ·		
Di iconronul Ether (DIDE)	445	10	400		111	61	147		
Ethyl Tortian, Butyl Ethor (ETRE)	503	20	400		126	68	150		
Benzene	403	20	400		110	00 70	150		
Tertiary Amyl Methyl Ether (TAME)	409	20	400		122	61	1/18		
	430	20	400		110	70	137		
Ethylbenzene	456	10	400		114	70	138		
m.p-Xvlene	419	10	400		105	70	145		
o-Xylene	412	10	400		103	70	145		
Surr: 1,2-Dichloroethane-d4	414		400		104	70	130		
Surr: Toluene-d8	367		400		92	70	130		
Surr: 4-Bromofluorobenzene	453		400		113	70	130		
Sample Matrix Spike		Type: M	S Te	est Code: El	PA Met	hod SW82	260B		
File ID: 11012511.D			Ba	atch ID: MS(	08S586	0A	Analysis Date:	01/25/2011 12:06	
Sample ID: 11012401-02AMS	Units : µg/K	q	Run ID: M	SD 08 110 <sup>.</sup>	125A		Prep Date:	01/25/2011 12:06	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
Tertiary Butyl Alcobol (TBA)	2400	1000	4000	0	60	10	171	····	
Methyl tert-butyl ether (MTRF)	379	1000	4000	0	95	42	157		
Di-isopropyl Ether (DIPE)	428	20	400	0	107	49	157		
Ethyl Tertiary Butyl Ether (ETBE)	401	20	400	Ő	100	48	158		
Benzene	418	10	400	Ő	105	53	150		
Tertiary Amyl Methyl Ether (TAME)	369	20	400	Ō	92	45	152		
Toluene	370	10	400	0	92	51	149		
Ethylbenzene	386	10	400	0	97	54	150		
m,p-Xylene	351	10	400	0	88	50	161		
o-Xylene	346	10	400	0	87	35	177		
Surr: 1,2-Dichloroethane-d4	423		400		106	70	130		
Surr: Toluene-d8	365		400		91	70	130		
Surr: 4-Bromofluorobenzene	453		400		113	70	130		



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<b>Date:</b> 07-Feb-11	I	QC Su	mmar	y Repor	t				<b>Work Ord</b> 1101240	er: 1
Sample Matrix Spike Duplicate		Type: MS	SD T	est Code: El	PA Met	hod SW82	260B			
File ID: 11012512.D			Ba	atch ID: MS(	08S586	0A	Analys	is Date: 0	1/25/2011 12:30	
Sample ID: 11012401-02AMSD	Units : µg/K	(g f	Run ID: M	SD_08_110 <sup>-</sup>	125A		Prep D	ate: 0	1/25/2011 12:30	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) F	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	2340	1000	4000	0	58	10	171	2398	2.6(40)	
Methyl tert-butyl ether (MTBE)	396	10	400	0	99	42	157	379.2	4.4(32)	
Di-isopropyl Ether (DIPE)	449	20	400	0	112	49	157	428.3	4.8(31)	
Ethyl Tertiary Butyl Ether (ETBE)	417	20	400	0	104	48	158	401	3.9(31)	
Benzene	437	10	400	Õ	109	53	150	418.4	4.5(26)	
Tertiary Amyl Methyl Ether (TAME)	388	20	400	Ō	97	45	152	369.4	4.9(30)	
Toluene	388	10	400	Ő	97	51	149	369.9	4.7(26)	
Ethylbenzene	402	10	400	Ō	100	54	150	386.3	3.9(29)	
m,p-Xylene	366	10	400	Ő	91	50	161	351.2	4.1(38)	
o-Xylene	360	10	400	Ő	90	35	177	346.4	4.0(40)	
Surr: 1,2-Dichloroethane-d4	416		400	_	104	70	130			
Surr: Toluene-d8	367		400		92	70	130			
Surr: 4-Bromofluorobenzene	449		400		112	70	130			

#### Comments:



<b>Date:</b> 07-Feb-11	(	QC Si	ummar	y Repor	t			<b>Work Orde</b> 11012401	er:
Method Blank File ID: 11012504.D		Туре: М	BLK TO Ba	est Code: EF atch ID: MS1	PA Met 2W012	hod SW82 25A	Analysis Date:	01/25/2011 09:42	
Analyte	Units : µg/L Result	PQL	Run ID: M: SpkVal	SD_12_1101 SokRefVal	1 <b>25A</b> %REC	LCL(ME)	UCL(ME) RPDRef	01/25/2011 09:42 /al %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	10				/		<u> </u>	
Methyl tert-butyl ether (MTBE)	ND	0.5							
Di-isopropyl Ether (DIPE)	ND	1							
Ethyl Tertiary Butyl Ether (ETBE)	ND	1							
Benzene	ND	0.5							
Toluene	ND	1							
Fthylbenzene		0.5							
m.p-Xvlene		0.5							
o-Xylene	ND	0.5							
Surr: 1,2-Dichloroethane-d4	8.94	0.0	10		89	70	130		
Surr: Toluene-d8	10.5		10		105	70	130		
Surr: 4-Bromofluorobenzene	8.95		10		90	70	130		
Laboratory Control Spike		Type: LO	CS TO	est Code: EF	PA Met	hod SW82	60B		
File ID: 11012503.D			Ba	atch ID: MS1	2W012	25A	Analysis Date:	01/25/2011 09:19	
Sample ID: LCS MS12W0125A	Units : µg/L		Run ID: M	SD 12 1101	25A		Prep Date:	01/25/2011 09:19	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	/al %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	74.2	10	100		74	44	156		
Methyl tert-butyl ether (MTBE)	8.46	0.5	10		85	65	140		
Di-isopropyl Ether (DIPE)	7.55	1	10		76	70	130		
Ethyl Tertiary Butyl Ether (ETBE)	7.98	1	10		80	65	139		
Benzene	9.49	0.5	10		95	70	130		
Tertiary Amyl Methyl Ether (TAME)	8.82	1	10		88	68	134		
Toluene	9.84	0.5	10		98	80	120		
Ethylbenzene	10.5	0.5	10		105	80	120		
m,p-Xylene	10.4	0.5	10		104	70	130		
O-Aylene Surr: 1.2 Dichlereothane d4	10.7	0.5	10		107	70	130		
Surr: Toluene-d8	0.13		10		81 105	70	130		
Surr: 4-Bromofluorobenzene	10.5		10		105	70	130		
	5.74		10 0 T		51	70			
Sample Matrix Spike		iype: Mi	5 10	est Code: El			60B	04/05/0044 44.05	
Sample ID: 11012401-10AMS	Lipito :/I		Due ID: M	atch ID: 1051		29A	Analysis Date:	01/25/2011 14:05	
Analyte	Result	POI	SokVal	SokReft/al	% REC		LICL(ME) RPDRef	/al %RPD(Limit)	Qual
Tertiany Butyl Alcohol (TBA)	201		Spr vai	Spkreival	70	41	167		
Methyl tert-butyl ether (MTBE)	40.5	20 13	500	0	70 81	41	157		
Di-isopropyl Ether (DIPE)	33.8	2.5	50	0	68	59	130		
Ethyl Tertiary Butyl Ether (ETBE)	36.1	2.5	50	0	72	59	182		
Benzene	40	1.3	50	0	80	59	138		
Tertiary Amyl Methyl Ether (TAME)	39.8	2.5	50	õ	80	63	135		
Toluene	39	1.3	50	0	78	68	130		
Ethylbenzene	41.7	1.3	50	Õ	83	68	130		
m,p-Xylene	41	1.3	50	0	82	68	131		
o-Xylene	43.5	1.3	50	0	87	70	130		
Surr: 1,2-Dichloroethane-d4	44.1		50		88	70	130		
Surr: Toluene-d8	50		50		100	70	130		
Surr: 4-Bromofluorobenzene	49.3		50		99	70	130		



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<b>Date:</b> 07-Feb-11	(	QC Su	mmar	y Repor	t		<u>.</u>		<b>Work Ord</b> 11012401	er:
Sample Matrix Spike Duplicate		Type: MS	SD T	est Code: El	PA Met	hod SW82	260B			
File ID: 11012516.D			B	atch ID: <b>MS</b> 1	12W012	25A	Analys	sis Date: 0	1/25/2011 14:28	
Sample ID: 11012401-19AMSD	Units : µg/L	F	Run ID: M	SD_12_110 <sup>,</sup>	125A		Prep [	Date: 0	1/25/2011 14:28	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVa	I %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	380	25	500	0	76	41	157	390.8	2.7(30)	
Methyl tert-butyl ether (MTBE)	40.9	1.3	50	0	82	47	150	40.47	1.0(40)	
Di-isopropyl Ether (DIPE)	34.8	2.5	50	0	70	59	139	33.77	3.1(20)	
Ethyl Tertiary Butyl Ether (ETBE)	36.9	2.5	50	0	74	59	182	36.12	2.1(40)	
Benzene	42.3	1.3	50	0	85	59	138	40.02	5.4(21)	
Tertiary Amyl Methyl Ether (TAME)	40.5	2.5	50	0	81	63	135	39.79	1.8(40)	
Toluene	41.3	1.3	50	0	83	68	130	39.03	5.6(20)	
Ethylbenzene	44.2	1.3	50	0	88	68	130	41.68	5.9(20)	
m,p-Xylene	43.3	1.3	50	0	87	68	131	41.04	5.3(20)	
o-Xylene	46	1.3	50	0	92	70	130	43.5	5.5(20)	
Surr: 1,2-Dichloroethane-d4	44.8		50		90	70	130			
Surr: Toluene-d8	50.1		50		100	70	130			
Surr: 4-Bromofluorobenzene	48.8		50		98	70	130			

#### Comments:

STODY RECORD	
<b>nalytical, Inc.</b> tie 21 Sparks, Nevada 89431-5778 44 FAX: (775) 355-0406	WorkOrder : CHHL11012401 Report Due By : 5:00 PM On : 01-Feb-2
nber EMail Address	
271 x daniel.jablonski@ch2m.com	
271 x vladimir.carino@ch2m.com	EDD Required : Yes
	Cooler Temp Samples Received Date Pri
	0 °C 22-Jan-2011 24-Jan-
Requested	<b>Fests</b>
P_MOIST TPH/E_S TPH/E_W TPH/P_S TP	HIP_W VOC_S VOC_W Sample Remark
Percent Fuel Product GAS-C	BTEX/0XY_ (2) MeOH voas ( C Geoprobe Report on
Percent Fuel Product GAS-C Moisture	C (2) MeOH voas ( Geoprobe Report on
Percent Fuel Product GAS-C Moisture	ETEX/OXY C (2) MeOH voas ( Geoprobe Report or weight basis.
Percent Fuel Product GAS-C	EFEX/OXY (2) MeOH voas ( Geoprobe Report or veight basis. 1 MeO received w/ sample I 23-30.5-01-012011 m up by sample time logged in per CC
Percent Fuel Product GAS-C Moisture	ETEX/0XY_ (2) MeOH voas ( C Geoprobe Report or weight basis.
2/11 kept cold and secure until login on 1/24/11.	Analysts: Run two analyses in order to achieve lower reporting l
Frint Name	Company Date/Time
	Parcent     Fuel Product     GAS-C       Percent     Fuel Product     GAS-C       Moisture     Fuel Product     GAS-C       Moisture     Fuel Product     GAS-C       Percent     Fuel Product     GAS-C       Moisture     Fuel Product     GAS-C       Moisture     Fuel Product     GAS-C       Percent     Fuel Product     GAS-C       Moisture     Fuel Product     GAS-C       Percent     Fuel Product     GAS-C       Percent     Fuel Product     GAS-C       Moisture     Fuel Product     GAS-C       Percent     Fuel Product     GAS-C       Moisture     Fuel Product     GAS-C       Percent     Fuel Product     GAS-C       Moisture     Fuel Product     GAS-C

1- 74-11 9:38	Alpha Analytical, Inc.		T I			2		-
Date/Time	Company	Print Name			nature	Sig	1	
			elved 1/22/11 Kept ou	/. Samples rec	values. :	igh TBA	Security seals intact. Fro all other analytes due to h	Comments:
achieve lower reporting limits for	Analysts: Run two analyses in order to	d and secure until login on 1/24/11	ai (ad 1/77/11 boot of	6			•	
weight basis.		-			15:20			
(2) MeOH voas (1)	BTEX/0XY_	uel Product GAS-C	6 Percent	3	01/20/11	So	GB-22-40-01-012011	CHH11012401-12A
(2) MeOH voas (2) 4oz jars Report on a dry weight basis.	BTEX/OXY_	ruel Product GAS-C	6 Percent Moisture	4 0	01/20/11	So	GB-22-32-01-012011	CHH11012401-11A
Geoprobe Report on a dry weight basis.			Moisture	·	14:00	(		
(2) MeOH voas (1)	BTEXXXY	uel Product GAS-C	6 Percent	3 0	01/20/11	SO	GR-22-30-01-012011	CHH11013401-104
Geoprobe Report on a dry weight basis.	C .	uel Product	6 Percent Moisture	з 0	01/20/11 13:55	so	GB-22-22-01-012011	CHH11012401-09A
Geoprobe Report on a dry weight basis.			Moisture		13:51			
(2) MeOH voas (1)	BTEX/OXY	uel Product GAS-C	6 Percent 1	а 0	01/20/11	So	GB-32-20-01-012011	CUU11010101_080
(2) MeOH voas (1) Geoprobe Report on a dry weight basis.	BTEX/OXY	uel Product GAS-C	6 Percent J Moisture	з 0	01/20/11 13:30	so	GB-22-10.5-01-012011	CHH11012401-07A
Geoprobe Report on a dry weight basis.		uel Product GAS-C	6 Percent F Moisture	ວ 0	01/20/11 11:30	so	GB-23-50-01-012011	CHH11012401-06A
(2) MoOH was (1)				lpha Sub	x Date A	Matri	Sample ID	Sample ID
Sample Remarks	PH/P_W VOC_S VOC_W	TPH/E_S TPH/E_W TPH/P_S TF	P_MOIST	lo. of Bottle	Collection		Client	Alpha
	Tests	Requested		ogales	NOU VIUL OUT	CS, MIS/	= Final Kpt, MBLK, LV	QC Level: S3
					Norwalk	Job :	33, 31994	Client's COC #: 319
1-2011 24-Jan-2011	0 °C 22-Ja				:			PO :
Deceived Date Printed	Sallipicu by . iviait iviayiy						0017	Los Angeles, CA S
	EDD Required - Tes	hadimir.carino@ch2m.com	3) 228-8271 x v	0 (21	Vladimir Carin		evard	1000 Wilshire Bou 21st Floor
	EDD Domirad . Vac	aniel.jablonski@ch2m.com	3) 228-8271 x c	ci (21)	Daniel Jablonsk			CH2M Hill
		EMail Address	ne Number	yu by	Report Attentio			Client:
L11012401 On: 01-Feb-2011	WorkOrder: CHH Report Due By: 5:00 PM	1 <b>1, Inc.</b> , Nevada 89431-5778 15) 355-0406	ha Analytice enue, Suite 21 Sparks ) 355-1044 FAX: (7)	Alp 5 Glendale Av TEL: (775	25			•
	CA	DY RECORD	-CUSTOI	IN-OF	CHA			Billing Information :
Page: 2 of 3	)							

Billing Information :			CH/	NN-	OF-	CUS	TOI	)Y R	EC	ORD	•	2			נר	age: 3	of 3	
-			2	55 Glenda	Alpha ale Avenue	Anal e, Suite 21	Sparks	II, Inc Nevada i	** 89431-577	78	Repo	orkO prt Du	rder : e By : :	CHI 5:00 PI	HL110 M On	01240 : 01-F	1 `eb-2011	
Cilent:		-	Report Attent	5	Phone	Number		EMail Ad	Idness									
CH2M Hill		·1	Daniel Jablon	ski	(213) 2	28-8271	× d	aniel.jablo	onski@chi	2m.com								
1000 Wilshire Bou	levard	I <sup></sup>	Vladimir Cari	ino	(213) 2	28-8271	XV	ladimir.ca	urino@ch2	2m.com	EI	DD Requ	iired : Yo	S				
21St Hoor	0017	ſ										Sample	by : M	att May	Ŋ			
Los Angeles, CA 9 PO :												Cooler	Temp	Sample	es Recei	ved .	)ate Printed	-
Client's COC #: 3190	93, 31994	lop: L	Vorwalk										č				4-0 <i>411-7</i> 011	1
QC Level: S3	= Final Rpt, MBLK, LC	S, MS/N	ISD With Sur	rrogates														Ì
	ananger grynn a de och en a sam a a sam a diele deren er									Reque	sted Tests							
Alpha Sample ID	Client Sample ID	Matrix	Collection	No. of E Alpha	Sub T.	A ع	NOIST	TPH/E_S	TPH/E_W	TPH/P_S	TPH/P_W	Voc_s	VOC_W			Sample f	<b>temarks</b>	
CHH11012401-13A	GB-22-53-01-012011	SO	01/20/11	4	•	6 5 7	oisture F	uel Product		GAS-C		BTEX/OXY C			(2) M	leOH voa: rt on a dr	s (2) 4oz jars / weight basis	<u>.</u>
CHH11012401-14A	QCEB-012011	ð	01/20/11	6	0	0			<b>TPHE(0.10)</b>		TPHE(0.10)		TPHE(0.10	3				]
CHH11012401-15A	GB-23-31-04-012111	Ą	01/21/11 09:40	ဖ	0	5			TPHE(0.10)		TPHE(0.10)		TPHE(0.1	9		-		
CHH11012401-16A	GB-23-37-04-012111	ð	01/21/11 10:05	8	0	o 		w 101	TPHE(0.10)		TPHE(0.10)		TPHE(0.1	9				
CHH11012401-17A	GB-23-45-04-012111	ð	01/21/11 10:35	6	0	J			TPHE(0.10)		<b>TPHE(0.10)</b>		TPHE(0.1	9				
CHH11012401-18A	QCEB-012111	ð	01/21/11 10:25	თ	0	ი 			TPHE(0.10)		TPHE(0.10)		TPHE(0.1	9				]
CHH11012401-19A	GB-22-31-04-012111	Ą	01/21/11 12:15	<u>-</u>	0	<b>6</b>			TPHE(0.10)		TPHE(0.10)		TPHE(0.1	9				
CHH11012401-20A	GB-22-37-04-012111	Ą	01/21/11 12:50	9	0	O)			TPHE(0.10)		TPHE(0.10)	-	TPHE(0.1	9				
CHH11012401-21A	GB-22-45-04-012111	Ą	01/21/11 13:10	6	o	თ 			TPHE(0.10)		<b>TPHE</b> (0.10)		TPHE(0.1	: S	   	1		<b>'</b>
CHH11012401-22A	QCTB-012011	Ą	01/20/11 00:00	2	0	ი —							TPHE(0.1	9	Re	no inp Bi	ank 11/18/10	
Comments:	Security seals intact. Frozi all other analytes due to hi	en ice. Si gh TBA v	aturday delive /alues. :	ry. Samp	les receive	xd 1/22/11	kept cold	d and secu	ure until lo	gin on 1/2	24/11. Anab	<u>vsts: Run</u> 1	two analys	es in order	to achiev	e lower re	porting limits	for
	>	Sign	ature				<b>-</b>	Pri	int Name				Com	Jany		Da	te/Time	
Logged in by:	Chapter	h (	Idco,	×		T		à.	5	H <sub>d</sub>	Sox	Α	lpha Anal	ytical, Inc		-24-1	9:38	i l.
NOTE: Sam	nalysis of the above sam	ays after ples is a	results are r	reported ly to thos	unless ot	her arran	gements id by the	i are mad laborato	le. Haza ry with th	rdous sai lis COC.	mples will b The liability	e returne of the lat il Jar O-	d to client xoratory is	or dispos limited to Fedlar B	sed of at the amo	dient exp ount paid P-Plastic	ense. for the report OT-Other	÷+
Matrix Type: AQ(A	queous) AR(Air) SO(S	Soil) W	S(Waste) D	)W(Drinki	ing Water	) OT(O	ther)	Bottle	з Туре: ц	-Liter v	-Voa S-So	il Jar		leotar c	-Diass	r -r Igaua	Cl-Cuici	

	Samples Collected Fro	m Which State?
255 Glendale Avenue Sparks, Nevada 894:	e, Suite 21 AZ CA N 31-5778 ID OR OT	HER Page # of
Fax (775) 355-0406	ever	
215		Data Validation
Job # Jmed bill to Kinder Mangan Job Name	ton the state	Level: ill or IV
Report Attention Project Manager	Free Main	
mail	X + X	EDD/EDF? YES NO
Phone: Mobile:	10/10/11/12	ID #
Sample Description TAT	Field # Containers** 8	/ / REMARKS
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4B-23-20-01-012011		v e)
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50-02-01-012011	2402	in the second se
1213-22-29-01-012011	Avrila Jaz	ser sle
110010-10-04-00-99	anal leken	arl
10000-10-53-00-82	And Jord V V V	             
of this sample. I am aware that tampering with or intentio	onally mislabeling the sample location, date or time of	collection is considered fraud and may be
1400 Received by: (Signature/Affiliaites	Mr. Anspired	Date: Jrol 11 Time:
MA: Arbitran Received by (Signature/Affiliation)	n ador /alpha	1-24-11 119238
Received by: (Signatule/Affiliation)	( )	Date: Time:
e OT - Other AR - Air **: L-Liter	V-Voa S-Soil Jar O-Orbo T-Tedlar	B-Brass P-Plastic OT-Other
as received by the laboratory with this coc. The liability	of the laboratory is limited to the amount paid for the	report.
	Alpha Analyti         Sample Lift       Sample Description       Fax (775) 355-0400         Name:       Nobile:       Mobile:         Email:       Mobile:       Mobile:         Phone:       Nobile:       Mobile:         CB-33-30-01-013011       Mobile:       Mobile:         GB-33-30-01-013011       Mobile:       Mobile:         CB-33-30-01-013011       GB-33-30-01-013011       GB-33-30-01-013011         GB-33-30-01-013011       GB-33-30-01-013011       GB-33-10,5-01-013011         GB-33-30-01-013011       GB-33-01-013011       GB-33-01-013011         GB-33-30-01-013011       GB-33-30-01-013011       GB-33-01-013011         GB-33-30-01-013011       GB-33-01-013011       GB-33-01-013011         GB-33-01-013011       GB-33-01-013011       GB-33-01-013011       GB-33-01-013011         GB-33-01-013011       GB-33-01-013011       GB-33-01-013011       GB-33-01-013011         GB-33-01-01-013011       GB-33-01-013011	Alpha Analytical, Inc.       Samples Collected Arenue Suite 21 phanes, Kreade Bash1-57/8       Samples Collected France Bash15, 2014         Bash15, Kread Bash15, 2014       Bash15, 2014       Bash15, 2014       Bash15, 2014         Bash15, Kread Bash15, 2014       Bash15, 2014       Bash15, 2014       Bash15, 2014         Bash15, Kread Bash15, 2014       Bash15, 2014       Bash15, 2014       Bash15, 2014         Bash15, Kread Bash15, 2014       Bash15, 2014       Bash15, 2014       Bash15, 2014         Bash15, Kread Bash15, 2014       Bash15, 2014       Bash15, 2014       Bash15, 2014         GB-33-20, 5-01-01, 2011       Farman       Bash15, 2014       Bash15, 2014       Bash15, 2014         GB-33-20, 5-01-01, 2011       Bash15, 2014       Bash15, 2014       Bash15, 2014       Bash15, 2014         GB-33-20, 5-01-01, 2011       Bash15, 2014       Bash15, 2014       Bash15, 2014       Bash15, 2014         GB-33-20, 5-01-01, 2011       Bash15, 2014       Bash14, 2014       Ba

Billing Information:	Alpha A	Analytical, Inc.	Samples Collected From	n Which State? 31994 wa DOD Site
Attn: Jan Jaklanski IIIIII	Sparks, Ne Fax (775)	ale Avenue, Suite 21 9vada 89431-5778 75) 355-1044 ???		ER Page # of Q_
City, State, Zip Phone Number 218 - 257 - 3630 Fax 714-424-	<u> 135</u>		Analyses Re	
Consultant / Client Name	100# Sned fill Kinder Margan "	lob Name		Level: III or IV
Address	Report Attention Project	x Manager	3	
City, State, Zip	Vame:		the glas	EDD/EDF? YES NO
Time Date Matrix* P.O. #	<sup>3</sup> hone: Mobile: .			Global ID #
Sampled Sampled Below Lab ID Number (Use Only)	Sample Description	TAT Field # Containers** /		REMARKS
141 - 141	QCEB-012011	6	XXX	
151- 2-1510	11121-04-01-01-01-01-01-01-01-01-01-01-01-01-01-	9		
1005 March 1 1 11-164 2001	6-23-37-04-012111	60		
1035	[B-23-45-04-01-11]	6		
8 18	OCEB-012111	.0		
13/5	10-22-31-04-01-01-01-01-01-01-01-01-01-01-01-01-01-			
	111210-92-04-01-11	7		
1310 1 1 210	B-22-45-04-012111	e l	< «	
- 1-12-11 V 6-1	CTB-012011	لع		
				· · · · · · · · · · · · · · · · · · ·
I, (field sampler), attest to the validity and authenticity of grounds for legal action (NAC 445.0636 (c) (2)). Sample	this sample. Yam aware, that tampering with c ad By:	or intentionally mislabeling the si	ample location, date or time of co	ollection is considered fraud and may be
Relinquished by Kignature/Affiliation) CH2MH	M 1-21-11 Received by: (Signature)	AAHILAHONT SS STATION	Alph Autor Da	te: [-21-11   Time:
Relinquished by: (Signature/AffMation	Alph AntiAnt Received by: (Signature)	Mathiation)	alona 1	$\frac{1}{24} - 11 \qquad \text{Time:} \\ 38$
Relinquished by: (Signature/Affiliation)	Received by: (Signature/	/Affiliation)	Dat	te: Time:
*Key: AQ - Aqueous SO - Soil WA - Waste NOTE: Samples are discarded 60 days after results are r of the above samples is applicable only to those samples	OT - Other AR - Air **: L-L eported unless other arrangements are made received by the laboratory with this coc. The	_iter V-Voa S-Soil Jar a. Hazardous samples will be re e liability of the laboratory is limi	O-Orbo T-Tedlar B- turned to client or disposed of at ted to the amount paid for the re	-Brass P-Plastic OT-Other client expense. The report for the analy port.
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#### **ANALYTICAL REPORT**

#### CH2M Hill 1000 Wilshire Boulevard Los Angeles, CA 90017

 Attn:
 Daniel Jablonski

 Phone:
 (213) 228-8271

 Fax:
 (714) 424-2135

 Date Received : 01/26/11

Job: KMEP Norwalk

	Percent Moisture ASTM D2216			
Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>GB-21-10.5-01-012411</b> Lab ID : CHH11012601-01A Percent Moisture Date Sampled 01/24/11 08:22	7.4	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-21-10.5-02-012411</b> Lab ID : CHH11012601-02A Percent Moisture Date Sampled 01/24/11 08:25	6.8	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-21-20-01-012411</b> Lab ID : CHH11012601-03A Percent Moisture Date Sampled 01/24/11 09:40	6.2	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-21-20-02-012411</b> Lab ID : CHH11012601-04A Percent Moisture Date Sampled 01/24/11 09:45	3.4	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-21-22-01-012411</b> Lab ID : CHH11012601-05A Percent Moisture Date Sampled 01/24/11 10:05	10	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-21-30-01-012411</b> Lab ID : CHH11012601-06A Percent Moisture Date Sampled 01/24/11 10:15	19	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-21-32-01-012411</b> Lab ID : CHH11012601-07A Percent Moisture Date Sampled 01/24/11 10:30	17	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-21-32-03-012411</b> Lab ID : CHH11012601-08A Percent Moisture Date Sampled 01/24/11 10:33	18	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-21-40-01-012411</b> Lab ID : CHH11012601-09A Percent Moisture Date Sampled 01/24/11 11:10	16	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-21-50-01-012411</b> Lab ID : CHH11012601-10A Percent Moisture Date Sampled 01/24/11 12:00	19	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-21-60-01-012411</b> Lab ID : CHH11012601-11A Percent Moisture Date Sampled 01/24/11 12:52	23	0.10 %	01/28/11	01/28/11



Client ID: <b>GB-20-10.5-01-0125</b> Lab ID : CHH11012601-18A Date Sampled 01/25/11 08:00	11 Percent Moisture	8.6	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-20-19.5-01-0125</b> Lab ID : CHH11012601-19A Date Sampled 01/25/11 08:15	11 Percent Moisture	20	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-20-22-01-01251</b> Lab ID : CHH11012601-20A Date Sampled 01/25/11 08:25	Percent Moisture	7.4	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-20-30-01-01251</b> Lab ID : CHH11012601-21A Date Sampled 01/25/11 08:50	Percent Moisture	20	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-20-32-01-012511</b> Lab ID : CHH11012601-22A Date Sampled 01/25/11 09:10	l Percent Moisture	27 ·	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-20-40-01-012511</b> Lab ID : CHH11012601-23A Date Sampled 01/25/11 09:35	Percent Moisture	16	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-20-40-02-012511</b> Lab ID : CHH11012601-24A Date Sampled 01/25/11 09:40	Percent Moisture	18	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-20-50-01-012511</b> Lab ID : CHH11012601-25A Date Sampled 01/25/11 10:30	Percent Moisture	19	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-19-10.5-01-0125</b> Lab ID : CHH11012601-27A Date Sampled 01/25/11 12:10	11 Percent Moisture	12	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-19-20-01-012511</b> Lab ID : CHH11012601-28A Date Sampled 01/25/11 12:25	Percent Moisture	2.8	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-19-23-01-012511</b> Lab ID : CHH11012601-29A Date Sampled 01/25/11 12:50	Percent Moisture	21	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-19-30-01-012511</b> Lab ID : CHH11012601-30A Date Sampled 01/25/11 13:30	Percent Moisture	19	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-19-30-02-012511</b> Lab ID : CHH11012601-31A Date Sampled 01/25/11 13:35	Percent Moisture	21	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-19-33-01-012511</b> Lab ID : CHH11012601-32A Date Sampled 01/25/11 13:50	Percent Moisture	21	0.10 %	01/28/11	01/28/11
Client ID: <b>GB-19-40-01-012511</b> Lab ID : CHH11012601-33A Date Sampled 01/25/11 14:10	Percent Moisture	21	0.10 %	01/28/11	01/28/11



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Client ID: **GB-19-50-01-012511** Lab ID : CHH11012601-34A Percent Moisture Date Sampled 01/25/11 14:40

24

0.10 %

01/28/11

01/28/11

Roger Scholl

Dalter Hinhow Kandy Saulmer

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

**Report Date** 



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

#### **ANALYTICAL REPORT**

CH2M Hill 1000 Wilshire Boulevard Los Angeles, CA 90017

 Attn:
 Daniel Jablonski

 Phone:
 (213) 228-8271

 Fax:
 (714) 424-2135

 Date Received : 01/26/11

Job: KMEP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B Volatile Organic Compounds (VOCs) EPA Method SW8260B

				Reporting	Date	Date
		Parameter	Concentration	Limit	Extracted	Analyzed
Client ID :	GB-21-10.5-01-012411	I				
Lab ID :	CHH11012601-01A	TPH-E (Fuel Product)	ND	11 mg/Kg-dry	01/26/11	01/28/11
Date Sampled	01/24/11 08:22	Surr: Nonane	117	(62-161) %REC	01/26/11	01/28/11
		TPH-P (GRO)	ND	2.3 mg/Kg-dry	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND	460 μg/Kg-dry	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND	11 μg/Kg-dry	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	23 μg/Kg-dry	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	23 µg/Kg-dry	01/27/11	01/27/11
		Benzene	ND	11 μg/Kg-dry	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	23 µg/Kg-dry	01/27/11	01/27/11
		Toluene	ND	11 μg/Kg-dry	01/27/11	01/27/11
		Ethylbenzene	ND	11 μg/Kg-dry	01/27/11	01/27/11
		m,p-Xylene	ND	11 μg/Kg-dry	01/27/11	01/27/11
		o-Xylene	ND	11 μg/Kg-dry	01/27/11	01/27/11
		Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	106	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	01/27/11	01/27/11
Client ID :	GB-21-10.5-02-012411					
Lab ID :	CHH11012601-02A	TPH-E (Fuel Product)	ND	11 mg/Kg-dry	01/26/11	01/28/11
Date Sampled	01/24/11 08:25	Surr: Nonane	93	(62-161) %REC	01/26/11	01/28/11
		TPH-P (GRO)	ND	2.0 mg/Kg-dry	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND	400 µg/Kg-dry	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND	10 µg/Kg-dry	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg-dry	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg-dry	01/27/11	01/27/11
		Benzene	ND	10 μg/Kg-dry	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg-dry	01/27/11	01/27/11
		Toluene	ND	10 μg/Kg-dry	01/27/11	01/27/11
		Ethylbenzene	ND	10 μg/Kg-dry	01/27/11	01/27/11
		m,p-Xylene	ND	10 µg/Kg-dry	01/27/11	01/27/11
		o-Xylene	ND	10 µg/Kg-dry	01/27/11	01/27/11
		Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	103	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	01/27/11	01/27/11



Client ID :	GB-21-20-01-012411						
Lab ID :	CHH11012601-03A	TPH-E (Fuel Product)	ND		11 mg/Kg-dry	01/26/11	01/28/11
Date Sampled	01/24/11 09:40	Surr: Nonane	122		(62-161) %REC	01/26/11	01/28/11
1		TPH-P (GRO)	ND		2.2 mg/Kg-dry	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND		430 μg/Kg-dry	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND		11 μg/Kg-dry	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND		22 μg/Kg-dry	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		22 µg/Kg-dry	01/27/11	01/27/11
		Benzene	ND		11 μg/Kg-dry	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND		22 μg/Kg-dry	01/27/11	01/27/11
		Toluene	ND		11 μg/Kg-dry	01/27/11	01/27/11
		Ethylbenzene	ND		11 μg/Kg-dry	01/27/11	01/27/11
		m,p-Xylene	ND		11 μg/Kg-dry	01/27/11	01/27/11
		o-Xvlene	ND		11 µg/Kg-dry	01/27/11	01/27/11
		Surr: 1.2-Dichloroethane-d4	99		(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	103		(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	01/27/11	01/27/11
		San: 1 Diomonation			(10 100) /0120		
Client ID :	GB-21-20-02-012411						
Lab ID :	CHH11012601-04A	TPH-E (Fuel Product)	ND		10 mg/Kg-dry	01/26/11	01/28/11
Date Sampled	01/24/11 09:45	Surr: Nonane	120		(62-161) %REC	01/26/11	01/28/11
		TPH-P (GRO)	ND		2.1 mg/Kg-dry	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND		410 μg/Kg-dry	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND		10 μg/Kg-dry	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND		21 μg/Kg-dry	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		21 μg/Kg-dry	01/27/11	01/27/11
		Benzene	ND		10 μg/Kg-dry	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND		21 µg/Kg-dry	01/27/11	01/27/11
		Toluene	ND		10 µg/Kg-dry	01/27/11	01/27/11
		Ethylbenzene	ND		10 μg/Kg-dry	01/27/11	01/27/11
		m,p-Xylene	ND		10 μg/Kg-dry	01/27/11	01/27/11
		o-Xylene	ND		10 μg/Kg-dry	01/27/11	01/27/11
		Surr: 1.2-Dichloroethane-d4	100		(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	103		(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	01/27/11	01/27/11
Client ID :	GB-21-22-01-012411						
Lab ID :	CHH11012601-05A	TPH-E (Fuel Product)	ND		11 mg/Kg-dry	01/26/11	01/28/11
Date Sampled	01/24/11 10:05	Surr: Nonane	129		(62-161) %REC	01/26/11	01/28/11
		TPH-P (GRO)	ND	0	3.8 mg/Kg-dry	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND	0	760 μg/Kg-dry	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND	0	19 μg/Kg-dry	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	0	38 μg/Kg-dry	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	0	38 μg/Kg-dry	01/27/11	01/27/11
		Benzene	ND	0	19 µg/Kg-dry	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	0	38 μg/Kg-dry	01/27/11	01/27/11
		Toluene	ND	0	19 μg/Kg-dry	01/27/11	01/27/11
		Ethylbenzene	ND	0	19 μg/Kg-dry	01/27/11	01/27/11
		m,p-Xylene	ND	0	19 μg/Kg-dry	01/27/11	01/27/11
		o-Xylene	ND	0	19 μg/Kg-dry	01/27/11	01/27/11
		Surr: 1,2-Dichloroethane-d4	101		(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	104		(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	01/27/11	01/27/11



Client ID :	GB-21-30-01-012411					
Lab ID :	CHH11012601-06A	TPH-E (Fuel Product)	ND	12 mg/Kg-dry	01/26/11	01/28/11
Date Sampled	01/24/11 10:15	Surr: Nonane	136	(62-161) %REC	01/26/11	01/28/11
-		TPH-P (GRO)	ND	2.0 mg/Kg-dry	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND	400 µg/Kg-dry	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND	10 µg/Kg-dry	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg-dry	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg-dry	01/27/11	01/27/11
		Benzene	ND	10 µg/Kg-drv	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg-drv	01/27/11	01/27/11
		Toluene	ND	10 µg/Kg-drv	01/27/11	01/27/11
		Ethylbenzene	ND	10 µg/Kg-drv	01/27/11	01/27/11
		m,p-Xylene	ND	10 μg/Kg-drv	01/27/11	01/27/11
		o-Xvlene	ND	10 µg/Kg-drv	01/27/11	01/27/11
		Surr: 1.2-Dichloroethane-d4	89	(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	105	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	01/27/11	01/27/11
			<i>,</i> ,,	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	01/2//11	
Client ID :	GB-21-32-01-012411					
Lab ID :	CHH11012601-07A	TPH-E (Fuel Product)	ND	12 mg/Kg-dry	01/26/11	01/28/11
Date Sampled	01/24/11 10:30	Surr: Nonane	136	(62-161) %REC	01/26/11	01/28/11
-		TPH-P (GRO)	ND	1.9 mg/Kg-dry	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND	370 μg/Kg-dry	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND	9.3 μg/Kg-dry	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	20 μg/Kg-dry	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 μg/Kg-dry	01/27/11	01/27/11
		Benzene	ND	9.3 µg/Kg-dry	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg-dry	01/27/11	01/27/11
		Toluene	ND	9.3 µg/Kg-dry	01/27/11	01/27/11
		Ethylbenzene	ND	9.3 µg/Kg-dry	01/27/11	01/27/11
		m,p-Xylene	ND	9.3 µg/Kg-drv	01/27/11	01/27/11
		o-Xvlene	ND	9.3 µg/Kg-drv	01/27/11	01/27/11
		Surr: 1.2-Dichloroethane-d4	97	(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	103	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	01/27/11	01/27/11
				( ,		
Client ID :	GB-21-32-03-012411					
Lab ID :	CHH11012601-08A	TPH-E (Fuel Product)	ND	12 mg/Kg-dry	01/26/11	01/28/11
Date Sampled	01/24/11 10:33	Surr: Nonane	114	(62-161) %REC	01/26/11	01/28/11
		TPH-P (GRO)	ND	1.9 mg/Kg-dry	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND	390 μg/Kg-dry	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND	9.7 μg/Kg-dry	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	20 μg/Kg-dry	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 μg/Kg-dry	01/27/11	01/27/11
		Benzene	ND	9.7 μg/Kg-dry	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	20 μg/Kg-dry	01/27/11	01/27/11
		Toluene	ND	9.7 μg/Kg-dry	01/27/11	01/27/11
		Ethylbenzene	ND	9.7 µg/Kg-dry	01/27/11	01/27/11
		m,p-Xylene	ND	9.7 µg/Kg-dry	01/27/11	01/27/11
		o-Xylene	ND	9.7 μg/Kg-dry	01/27/11	01/27/11
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	102	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	01/27/11	01/27/11



Client ID :	GB-21-40-01-012411					
Lab ID :	CHH11012601-09A	TPH-E (Fuel Product)	ND	12 mg/Kg-dry	01/26/11	01/28/11
Date Sampled	01/24/11 11:10	Surr: Nonane	129	(62-161) %REC	01/26/11	01/28/11
<b>-</b>		TPH-P (GRO)	ND	1.9 mg/Kg-dry	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND	380 µg/Kg-dry	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND	9.4 µg/Kg-dry	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	20 μg/Kg-dry	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg-drv	01/27/11	01/27/11
		Benzene	ND	9.4 µg/Kg-drv	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg-drv	01/27/11	01/27/11
		Toluene	ND	9.4 µg/Kg-dry	01/27/11	01/27/11
		Ethylbenzene	ND	94 ug/Kg-dry	01/27/11	01/27/11
		m n-Xylene	ND	94 µg/Kg-dry	01/27/11	01/27/11
		o-Xvlene	ND	94 ug/Kg-dry	01/27/11	01/27/11
		Surr: 1.2-Dichloroethane-d4	00	(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	103	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	06	(70-130) %REC	01/27/11	01/27/11
		Sur: 4-Diomonuorobenzene	90	(70-130) / MCLC	01/27/11	01/2//11
Client ID :	GB-21-50-01-012411					
Lab ID :	CHH11012601-10A	TPH-E (Fuel Product)	ND	12 mg/Kg-dry	01/26/11	01/28/11
Date Sampled	01/24/11 12:00	Sur: Nonane	140	(62-161) %REC	01/26/11	01/28/11
•		TPH-P (GRO)	ND	2.1 mg/Kg-dry	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND	430 μg/Kg-dry	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND	$11 \mu g/Kg-drv$	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	21 μg/Kg-dry	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	21 µg/Kg-dry	01/27/11	01/27/11
		Benzene	ND	11 µg/Kg-dry	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	21 µg/Kg-drv	01/27/11	01/27/11
		Toluene	ND	11 ug/Kg-dry	01/27/11	01/27/11
		Ethylbenzene	ND	11 ug/Kg-dry	01/27/11	01/27/11
		m n-Xylene	ND	11 ug/Kg-dry	01/27/11	01/27/11
		o-Xviene	ND	11 µg/Kg-dry	01/27/11	01/27/11
		Surr: 1.2-Dichloroethane-d4	101	(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	104	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	07	(70-130) %REC	01/27/11	01/27/11
		Sull, P Diomondologizate	71	(70-150) /0(20	01/2//11	01/2//11
Client ID :	GB-21-60-01-012411					
Lab ID :	CHH11012601-11A	TPH-E (Fuel Product)	ND	13 mg/Kg-dry	01/26/11	01/28/11
Date Sampled	01/24/11 12:52	Surr: Nonane	137	(62-161) %REC	01/26/11	01/28/11
		TPH-P (GRO)	ND	2.2 mg/Kg-dry	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND	430 μg/Kg-dry	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	40	11 μg/Kg-dry	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	22 µg/Kg-dry	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	22 µg/Kg-drv	01/27/11	01/27/11
		Benzene	ND	11 µg/Kg-dry	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	22 µg/Kg-drv	01/27/11	01/27/11
		Toluene	ND	11 ug/Kg-drv	01/27/11	01/27/11
		Ethylbenzene	ND	11 ug/Kg-drv	01/27/11	01/27/11
		m.p-Xvlene	ND	11 ug/Kg-drv	01/27/11	01/27/11
		o-Xvlene	ND	11 ug/Kg_dry	01/27/11	01/27/11
		Surr: 1.2-Dichloroethane-d4	102	(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	103	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorohenzene	97	(70-130) %REC	01/27/11	01/27/11
		Switt i Diomoniuoloochizchic	21	(10-100) /01/10	VI(2//11	01141111



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#### Client ID : **GB-20-10.5-01-012511** Lab ID : CHH11012601-18A TPH-

Lab ID :	CHH11012601-18A	TPH-E (Fuel Product)	ND	11 mg/Kg-dry	01/26/11	01/28/11
Date Sampled	01/25/11 08:00	Surr: Nonane	104	(62-161) %REC	01/26/11	01/28/11
		TPH-P (GRO)	ND	1.8 mg/Kg-dry	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND	370 μg/Kg-dry	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND	9.2 μg/Kg-dry	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	20 μg/Kg-dry	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 μg/Kg-dry	01/27/11	01/27/11
		Benzene	ND	9.2 μg/Kg-dry	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg-dry	01/27/11	01/27/11
		Toluene	ND	9.2 µg/Kg-dry	01/27/11	01/27/11
		Ethylbenzene	ND	9.2 μg/Kg-dry	01/27/11	01/27/11
		m,p-Xylene	ND	9.2 µg/Kg-dry	01/27/11	01/27/11
		o-Xylene	ND	9.2 µg/Kg-dry	01/27/11	01/27/11
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	104	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	01/27/11	01/27/11
Client ID :	GB-20-19.5-01-01251	1				
Lab ID :	CHH11012601-19A	TPH-E (Fuel Product)	ND	12 mg/Kg-dry	01/26/11	01/28/11
Date Sampled	01/25/11 08:15	Surr: Nonane	145	(62-161) %REC	01/26/11	01/28/11
		TPH-P (GRO)	ND	2.2 mg/Kg-dry	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND	430 μg/Kg-dry	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND	11 μg/Kg-dry	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	22 µg/Kg-dry	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	22 µg/Kg-dry	01/27/11	01/27/11
		Benzene	ND	11 μg/Kg-dry	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	22 µg/Kg-dry	01/27/11	01/27/11
		Toluene	ND	11 μg/Kg-dry	01/27/11	01/27/11
		Ethylbenzene	ND	11 μg/Kg-dry	01/27/11	01/27/11
		m,p-Xylene	ND	ll μg/Kg-dry	01/27/11	01/27/11
		o-Xylene	ND	11 μg/Kg-dry	01/27/11	01/27/11
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	102	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	01/27/11	01/27/11
Client ID ·	CB-20-22 01 012511					
Lab ID :	CUU11012601 20A	TDU E (Prod Der door)	ND	11	01/07/11	01/39/11
Date Commuted	01/25/11 00 25	IPH-E (Fuel Product)	ND	II mg/Kg-dry	01/26/11	01/28/11
Date Sampled	01/25/11 08:25	Sur: Nonane	138	(62-161) %REC	01/26/11	01/28/11
		Tertian D ( 1 Al 1 (TD A)	ND	1.9 mg/Kg-dry	01/27/11	01/27/11
		Made La characteria (MEDE)	ND	370 µg/Kg-dry	01/27/11	01/27/11
		Methyl tert-butyl ether (MIBE)	ND	9.3 μg/Kg-dry	01/2//11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg-dry	01/2//11	01/2//11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg-dry	01/27/11	01/27/11
		Benzene	ND	9.3 μg/Kg-dry	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg-dry	01/27/11	01/27/11
		loluene	ND	9.3 $\mu$ g/Kg-dry	01/27/11	01/27/11
		Ethylbenzene	ND	9.3 μg/Kg-dry	01/27/11	01/27/11
		m,p-Xylene	ND	9.3 μg/Kg-dry	01/27/11	01/27/11
		o-Xylene	ND	9.3 μg/Kg-dry	01/27/11	01/27/11
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	104	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	01/27/11	01/27/11



Client ID :	GB-20-30-01-012511					
Lab ID :	CHH11012601-21A	TPH-E (Fuel Product)	ND	12 mg/Kg-dry	01/26/11	01/28/11
Date Sampled	01/25/11 08:50	Surr: Nonane	147	(62-161) %REC	01/26/11	01/28/11
		TPH-P (GRO)	ND	1.9 mg/Kg-dry	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND	380 μg/Kg-dry	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND	9.6 µg/Kg-dry	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg-dry	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg-dry	01/27/11	01/27/11
		Benzene	ND	9.6 ug/Kg-dry	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	20  µg/Kg-dry	01/27/11	01/27/11
		Toluene	ND	9.6 µg/Kg-drv	01/27/11	01/27/11
		Ethylbenzene	ND	9.6 µg/Kg-dry	01/27/11	01/27/11
		m,p-Xylene	ND	9.6 µg/Kg-dry	01/27/11	01/27/11
		o-Xvlene	ND	9.6 µg/Kg-dry	01/27/11	01/27/11
		Surr: 1.2-Dichloroethane-d4	102	(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	103	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	01/27/11	01/27/11
<b>6</b> 11 <b>1</b> 5		Sum - Dromonuoroounzene	,,,	(10 130) / 1120	01/2//11	0
Client ID :	GB-20-32-01-012511					
Lab ID :	CHH11012601-22A	TPH-E (Fuel Product)	ND	14 mg/Kg-dry	01/26/11	01/27/11
Date Sampled	01/25/11 09:10	Surr: Nonane	127	(62-161) %REC	01/26/11	01/27/11
		TPH-P (GRO)	ND	2.1 mg/Kg-dry	01/28/11	01/28/11
		Tertiary Butyl Alcohol (TBA)	ND	420 μg/Kg-dry	01/28/11	01/28/11
		Methyl tert-butyl ether (MTBE)	ND	11 µg/Kg-dry	01/28/11	01/28/11
		Di-isopropyl Ether (DIPE)	ND	21 µg/Kg-dry	01/28/11	01/28/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	21 µg/Kg-dry	01/28/11	01/28/11
		Benzene	ND	11 μg/Kg-dry	01/28/11	01/28/11
		Tertiary Amyl Methyl Ether (TAME)	ND	21 µg/Kg-dry	01/28/11	01/28/11
		Toluene	ND	11 μg/Kg-dry	01/28/11	01/28/11
		Ethylbenzene	ND	11 μg/Kg-dry	01/28/11	01/28/11
		m,p-Xylene	ND	ll μg/Kg-dry	01/28/11	01/28/11
		o-Xylene	ND	l1 μg/Kg-dry	01/28/11	01/28/11
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	01/28/11	01/28/11
		Surr: Toluene-d8	102	(70-130) %REC	01/28/11	01/28/11
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	01/28/11	01/28/11
Client ID :	GB-20-40-01-012511					
Lab ID :	CHH11012601-23A	TPH-E (Fuel Product)	ND	12 mg/Kg-dry	01/26/11	01/27/11
Date Sampled	01/25/11 09:35	Surr: Nonane	130	(62-161) %REC	01/26/11	01/27/11
2 are 5 ampiou	01,20,11 07.55	TPH-P (GRO)	ND	2 1 mg/Kg-drv	01/28/11	01/28/11
		Tertiary Butyl Alcohol (TBA)	ND	$410 \mu g/Kg dry$	01/28/11	01/28/11
		Methyl tert-butyl ether (MTBF)	ND	10 ug/Kg-dry	01/28/11	01/28/11
		Di-isopropyl Ether (DIPE)	ND	$21 \mu g/Kg dry$	01/28/11	01/28/11
		Ethyl Tertiary Butyl Ether (ETRE)	ND	$21 \mu g/Kg dry$	01/28/11	01/28/11
		Benzene	ND	$10 \mu g/Kg dry$	01/28/11	01/28/11
		Tertiany Amyl Methyl Ether (TAME)		$21 \mu g/Kg dry$	01/28/11	01/28/11
		Toluene	ND	$\frac{21  \mu g}{Kg} \frac{Kg}{dm}$	01/28/11	01/28/11
		Ethylbenzene		$10 \ \mu g/\kappa g$ -ury $10 \ \mu s/K g$ -dry	01/20/11	01/20/11
		m p-Yvlene		$10 \ \mu g/\text{Kg-dry}$	01/28/11	01/20/11
		-Aylene			01/20/11	01/20/11
		Sum 1.2 Dicklonoster - 14	ND 04	10 µg/Kg-dry	01/28/11	01/28/11
		Sun. 1,2-Dichoroelnane-04	94 104	(70-130) %KEC	01/28/11	01/20/11
		Sum 4 Drame Grant	104	(70-130) % <b>K</b> EU	01/28/11	01/28/11
		sun: 4-bromonuorobenzene	98	(70-130) %REC	01/28/11	01/28/11



Client ID :	GB-20-40-02-012511					
Lab ID :	CHH11012601-24A	TPH-E (Fuel Product)	ND	12 mg/Kg-dry	01/26/11	01/27/11
Date Sampled	01/25/11 09:40	Surr: Nonane	153	(62-161) %REC	01/26/11	01/27/11
-		TPH-P (GRO)	ND	2.0 mg/Kg-dry	01/28/11	01/28/11
		Tertiary Butyl Alcohol (TBA)	ND	400 μg/Kg-dry	01/28/11	01/28/11
		Methyl tert-butyl ether (MTBE)	ND	10 µg/Kg-dry	01/28/11	01/28/11
		Di-isopropyl Ether (DIPE)	ND	20 µg/Kg-dry	01/28/11	01/28/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/Kg-dry	01/28/11	01/28/11
		Benzene	ND	10 µg/Kg-dry	01/28/11	01/28/11
		Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/Kg-drv	01/28/11	01/28/11
		Toluene	ND	10 µg/Kg-dry	01/28/11	01/28/11
		Ethylbenzene	ND	10 µg/Kg-dry	01/28/11	01/28/11
		, m,p-Xylene	ND	10 µg/Kg-dry	01/28/11	01/28/11
		o-Xylene	ND	10 µg/Kg-drv	01/28/11	01/28/11
		Surr: 1,2-Dichloroethane-d4	103	(70-130) %REC	01/28/11	01/28/11
		Surr: Toluene-d8	102	(70-130) %REC	01/28/11	01/28/11
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	01/28/11	01/28/11
				(		
Chent ID :	GB-20-50-01-012511					
Lab ID :	CHH11012601-25A	TPH-E (Fuel Product)	ND	12 mg/Kg-dry	01/26/11	01/27/11
Date Sampled	01/25/11 10:30	Surr: Nonane	138	(62-161) %REC	01/26/11	01/27/11
		TPH-P (GRO)	ND .	2.0 mg/Kg-dry	01/28/11	01/28/11
		Tertiary Butyl Alcohol (TBA)	ND	410 μg/Kg-dry	01/28/11	01/28/11
		Methyl tert-butyl ether (MTBE)	ND	10 μg/Kg-dry	01/28/11	01/28/11
		Di-isopropyl Ether (DIPE)	ND	20 μg/Kg-dry	01/28/11	01/28/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 μg/Kg-dry	01/28/11	01/28/11
		Benzene	ND	10 μg/Kg-dry	01/28/11	01/28/11
		Tertiary Amyl Methyl Ether (TAME)	ND	20 μg/Kg-dry	01/28/11	01/28/11
		Toluene	ND	10 μg/Kg-dry	01/28/11	01/28/11
		Ethylbenzene	ND	10 μg/Kg-dry	01/28/11	01/28/11
		m,p-Xylene	ND	10 μg/Kg-dry	01/28/11	01/28/11
		o-Xylene	ND	10 µg/Kg-dry	01/28/11	01/28/11
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	01/28/11	01/28/11
		Surr: Toluene-d8	102	(70-130) %REC	01/28/11	01/28/11
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	01/28/11	01/28/11
	CD 10 10 5 01 01051	_				
Client ID :	GB-19-10.5-01-01251	1				
Lab ID :	CHH11012601-27A	TPH-E (Fuel Product)	ND	11 mg/Kg-dry	01/26/11	01/27/11
Date Sampled	01/25/11 12:10	Surr: Nonane	135	(62-161) %REC	01/26/11	01/27/11
		TPH-P (GRO)	ND	2.1 mg/Kg-dry	01/28/11	01/28/11
		Tertiary Butyl Alcohol (TBA)	ND	430 μg/Kg-dry	01/28/11	01/28/11
		Methyl tert-butyl ether (MTBE)	20	11 μg/Kg-dry	01/28/11	01/28/11
		Di-isopropyl Ether (DIPE)	ND	21 μg/Kg-dry	01/28/11	01/28/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	21 μg/Kg-dry	01/28/11	01/28/11
		Benzene	ND	11 μg/Kg-dry	01/28/11	01/28/11
		Tertiary Amyl Methyl Ether (TAME)	ND	21 μg/Kg-dry	01/28/11	01/28/11
		Toluene	ND	11 μg/Kg-dry	01/28/11	01/28/11
		Ethylbenzene	ND	11 μg/Kg-dry	01/28/11	01/28/11
		m,p-Xylene	ND	11 μg/Kg-dry	01/28/11	01/28/11
		o-Xylene	ND	11 μg/Kg-dry	01/28/11	01/28/11
		Surr: 1,2-Dichloroethane-d4	90	(70-130) %REC	01/28/11	01/28/11
		Surr: Toluene-d8	102	(70-130) %REC	01/28/11	01/28/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	01/28/11	01/28/11



Client ID :	GB-19-20-01-012511					
Lab ID :	CHH11012601-28A	TPH-E (Fuel Product)	ND	10 mg/Kg-dry	01/26/11	01/27/11
Date Sampled	01/25/11 12:25	Surr: Nonane	124	(62-161) %REC	01/26/11	01/27/11
		TPH-P (GRO)	ND	2.2 mg/Kg-dry	01/28/11	01/28/11
		Tertiary Butyl Alcohol (TBA)	ND	440 μg/Kg-dry	01/28/11	01/28/11
		Methyl tert-butyl ether (MTBE)	ND	11 μg/Kg-dry	01/28/11	01/28/11
		Di-isopropyl Ether (DIPE)	ND	22 μg/Kg-dry	01/28/11	01/28/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	22 µg/Kg-dry	01/28/11	01/28/11
		Benzene	ND	11 µg/Kg-dry	01/28/11	01/28/11
		Tertiary Amyl Methyl Ether (TAME)	ND	$22 \mu g/Kg$ -dry	01/28/11	01/28/11
		Toluene	ND	11 µg/Kg-dry	01/28/11	01/28/11
		Ethylbenzene	ND	11 µg/Kg-dry	01/28/11	01/28/11
		m,p-Xylene	ND	11 μg/Kg-dry	01/28/11	01/28/11
		o-Xylene	ND	11 µg/Kg-dry	01/28/11	01/28/11
		Surr: 1,2-Dichloroethane-d4	91	(70-130) %REC	01/28/11	01/28/11
		Surr: Toluene-d8	106	(70-130) %REC	01/28/11	01/28/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	01/28/11	01/28/11
Client ID ·	CB-19-23 01 012511					
Lah ID :	СНИ11012601 204			10 11/1	01/07/11	01/07/11
Data Canala I	01/25/11 12 50	Server Manager	ND	13 mg/Kg-dry	01/26/11	01/2//11
Date Sampled	01/25/11 12:50	Sur: Nonane	131	(62-161) %REC	01/26/11	01/2//11
			ND	3.2 mg/Kg-dry	01/28/11	01/28/11
		Tertiary Butyl Alcohol (TBA)	ND	640 μg/Kg-dry	01/28/11	01/28/11
		Methyl tert-butyl ether (MIBE)	ND	16 μg/Kg-dry	01/28/11	01/28/11
		Di-isopropyl Ether (DIPE)	ND	32 µg/Kg-dry	01/28/11	01/28/11
		Ethyl Tertiary Butyl Ether (EIBE)	ND	32 µg/Kg-dry	01/28/11	01/28/11
		Benzene	ND	16 μg/Kg-dry	01/28/11	01/28/11
		Tertiary Amyl Methyl Ether (TAME)	ND	32 μg/Kg-dry	01/28/11	01/28/11
		Toluene	ND	16 μg/Kg-dry	01/28/11	01/28/11
		Ethylbenzene	ND	16 μg/Kg-dry	01/28/11	01/28/11
		m,p-Xylene	ND	16 μg/Kg-dry	01/28/11	01/28/11
		o-Xylene	ND	16 μg/Kg-dry	01/28/11	01/28/11
		Surr: 1,2-Dichloroethane-d4	90	(70-130) %REC	01/28/11	01/28/11
		Surr: Toluene-d8	103	(70-130) %REC	01/28/11	01/28/11
		Surr: 4-Bromofluorobenzene	101	(70-130) %REC	01/28/11	01/28/11
Client ID :	GB-19-30-01-012511					
Lab ID :	CHH11012601-30A	TPH-E (Fuel Product)	ND	12 mg/Kg-dry	01/26/11	01/27/11
Date Sampled	01/25/11 13:30	Surr: Nonane	131	(62-161) %REC	01/26/11	01/27/11
-		TPH-P (GRO)	ND	2.0 mg/Kg-dry	01/28/11	01/28/11
		Tertiary Butyl Alcohol (TBA)	ND	390 µg/Kg-drv	01/28/11	01/28/11
		Methyl tert-butyl ether (MTBE)	ND	9.8 µg/Kg-dry	01/28/11	01/28/11
		Di-isopropyl Ether (DIPE)	ND	$20 \mu g/Kg-drv$	01/28/11	01/28/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	$20 \mu g/Kg - dry$	01/28/11	01/28/11
		Benzene	ND	9.8 µg/Kg-dry	01/28/11	01/28/11
		Tertiary Amyl Methyl Ether (TAME)	ND	$20 \mu g/Kg dry$	01/28/11	01/28/11
		Toluene	ND	$9.8 \mu g/Kg dry$	01/28/11	01/28/11
		Ethylbenzene	ND	9.8 µg/Kg-dry	01/28/11	01/28/11
		m.p-Xylene	ND	9.8 ug/Kg_dry	01/28/11	01/28/11
		o-Xvlene	ND	9.8 μα/Κα_dev	01/28/11	01/28/11
		Surr 1.2-Dichloroethane.d4	0/	7.0 με/ng-diy	01/28/11	01/20/11
		Surr Toluene_d8	103	(70-130) 70NEC (70-120) 0/DEC	01/20/11	01/20/11
		Surr 4-Bromofluorohenzona	103	(70-130) % EC	01/20/11	01/20/11
		San, +-Diomonuorobenzene	101	(10-130) %KEC	01/20/11	01/20/11



## Alpha Analytical, Inc.

Client ID :	GB-19-30-02-012511					
Lab ID :	CHH11012601-31A	TPH-E (Fuel Product)	ND	13 mg/Kg-dry	01/26/11	01/27/11
Date Sampled	01/25/11 13:35	Surr: Nonane	124	(62-161) %REC	01/26/11	01/27/11
		TPH-P (GRO)	ND	2.1 mg/Kg-dry	01/28/11	01/28/11
		Tertiary Butyl Alcohol (TBA)	ND	420 µg/Kg-dry	01/28/11	01/28/11
		Methyl tert-butyl ether (MTBE)	ND	11 µg/Kg-dry	01/28/11	01/28/11
		Di-isopropyl Ether (DIPE)	ND	21 µg/Kg-dry	01/28/11	01/28/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	21 µg/Kg-dry	01/28/11	01/28/11
		Benzene	ND	11 µg/Kg-dry	01/28/11	01/28/11
		Tertiary Amyl Methyl Ether (TAME)	ND	21 ug/Kg-drv	01/28/11	01/28/11
		Toluene	ND	11 µg/Kg-drv	01/28/11	01/28/11
		Ethylbenzene	ND	11 ug/Kg-dry	01/28/11	01/28/11
		m.p-Xvlene	ND	11 ug/Kg-dry	01/28/11	01/28/11
		o-Xvlene	ND	11 ug/Kg-dry	01/28/11	01/28/11
		Surr: 1.2-Dichloroethane-d4	92	(70-130) %REC	01/28/11	01/28/11
		Surr: Toluene-d8	105	(70-130) %REC	01/28/11	01/28/11
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	01/28/11	01/28/11
	<b>CD 40 40 41 414</b>					
Client ID :	GB-19-33-01-012511					
Lab ID :	CHH11012601-32A	TPH-E (Fuel Product)	ND	13 mg/Kg-dry	01/26/11	01/27/11
Date Sampled	01/25/11 13:50	Surr: Nonane	134	(62-161) %REC	01/26/11	01/27/11
		TPH-P (GRO)	ND	2.1 mg/Kg-dry	01/28/11	01/28/11
		Tertiary Butyl Alcohol (TBA)	ND	420 μg/Kg-dry	01/28/11	01/28/11
		Methyl tert-butyl ether (MTBE)	ND	11 μg/Kg-dry	01/28/11	01/28/11
		Di-isopropyl Ether (DIPE)	ND	21 µg/Kg-dry	01/28/11	01/28/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	21 μg/Kg-dry	01/28/11	01/28/11
		Benzene	ND	11 μg/Kg-dry	01/28/11	01/28/11
		Tertiary Amyl Methyl Ether (TAME)	ND	21 µg/Kg-dry	01/28/11	01/28/11
		Toluene	ND	ll μg/Kg-dry	01/28/11	01/28/11
		Ethylbenzene	ND	ll μg/Kg-dry	01/28/11	01/28/11
		m,p-Xylene	ND	11 μg/Kg-dry	01/28/11	01/28/11
		o-Xylene	ND	l1 μg/Kg-dry	01/28/11	01/28/11
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	01/28/11	01/28/11
		Surr: Toluene-d8	103	(70-130) %REC	01/28/11	01/28/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	01/28/11	01/28/11
Client ID ·	GB-19-40-01-012511					
Lah ID :	CHH11012601-33A	TPH_E (Fuel Product)	ND	13 mg/Kg-dry	01/26/11	01/27/11
Date Sampled	01/25/11 14:10	Surr: Nonane	140	(62-161) %REC	01/26/11	01/27/11
Date Sampled	01/23/11 14.10	TPH-P (GPO)	ND	22  mg/Kg-dm	01/28/11	01/28/11
		Tertiany Butyl Alashal (TRA)	ND	440 ug/Kg-dry	01/28/11	01/28/11
		Methyl tert butyl athor (MTRE)	ND	$11 \mu g/Kg dry$	01/28/11	01/28/11
		Di isonronul Ether (DIDE)		$\frac{11  \mu g}{Kg}$ -dry	01/28/11	01/28/11
		Ethyl Tartian ( Butd Eth ar (ETDE)	ND D	$22 \mu g/Kg-dry$	01/28/11	01/28/11
		Bangana	ND	$22 \mu g/Kg$ -ury	01/28/11	01/28/11
			ND	l μg/Kg-dry	01/28/11	01/28/11
		Tertiary Amyl Methyl Ether (IAME)	ND	22 µg/Kg-dry	01/28/11	01/28/11
			ND	Π μg/Kg-dry	01/28/11	01/28/11
		Etnylbenzene	ND	II μg/Kg-dry	01/28/11	01/28/14
		m,p-Xylene	ND	ll μg/Kg-dry	01/28/11	01/28/11
		o-Aylene	ND	ll μg/Kg-dry	01/28/11	01/28/11
		Surr: 1,2-Dichloroethane-d4	88	(70-130) %REC	01/28/11	01/28/11
		Surr: Toluene-d8	105	(70-130) %REC	01/28/11	01/28/11
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	01/28/11	01/28/11



Client ID : Lab ID :

#### Alpha Analytical, Inc.

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Client ID :	GB-19-50-01-012511					
Lab ID :	CHH11012601-34A	TPH-E (Fuel Product)	ND	13 mg/Kg-dry	01/26/11	01/28/11
Date Sampled	01/25/11 14:40	Surr: Nonane	114	(62-161) %REC	01/26/11	01/28/11
		TPH-P (GRO)	ND	2.3 mg/Kg-dry	01/28/11	01/28/11
		Tertiary Butyl Alcohol (TBA)	ND	460 μg/Kg-dry	01/28/11	01/28/11
·		Methyl tert-butyl ether (MTBE)	ND	ll μg/Kg-dry	01/28/11	01/28/11
		Di-isopropyl Ether (DIPE)	ND	23 μg/Kg-dry	01/28/11	01/28/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	23 μg/Kg-dry	01/28/11	01/28/11
		Benzene	ND	ll μg/Kg-dry	01/28/11	01/28/11
		Tertiary Amyl Methyl Ether (TAME)	ND	23 μg/Kg-dry	01/28/11	01/28/11
		Toluene	ND	11 μg/Kg-dry	01/28/11	01/28/11
		Ethylbenzene	ND	11 μg/Kg-dry	01/28/11	01/28/11
		m,p-Xylene	ND	11 μg/Kg-dry	01/28/11	01/28/11
		o-Xylene	ND	11 μg/Kg-dry	01/28/11	01/28/11
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	01/28/11	01/28/11
		Surr: Toluene-d8	103	(70-130) %REC	01/28/11	01/28/11
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	01/28/11	01/28/11

Gasoline Range Organics (GRO) C4-C13

Note: Samples were received pre-preserved in Methanol.

O = Reporting Limits were increased due to sample foaming.

Concentrations and reporting limits are based on dry weights. ND = Not Detected

Dalter Amilian Roger Scholl Kandy Soulmer

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

2/2/11

**Report Date** 



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#### **ANALYTICAL REPORT**

CH2M Hill 1000 Wilshire Boulevard Los Angeles, CA 90017 
 Attn:
 Daniel Jablonski

 Phone:
 (213) 228-8271

 Fax:
 (714) 424-2135

 Date Received : 01/26/11

Job: KMEP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B Volatile Organic Compounds (VOCs) EPA Method SW8260B

				Reporting	Date	Date
		Parameter	Concentration	Limit	Extracted	Analyzed
Client ID :	QCEB-012411 (Samj	ple Shoe)				
Lab ID :	CHH11012601-12A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/27/11	01/27/11
Date Sampled	01/24/11 13:10	Surr: Nonane	100	(49-145) %REC	01/27/11	01/27/11
		TPH-P (GRO)	ND	0.050 mg/L	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	$1.0 \ \mu g/L$	01/27/11	01/27/11
		Benzene	ND	0.50 µg/L	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	01/27/11	01/27/11
		Toluene	ND	0.50 µg/L	01/27/11	01/27/11
		Ethylbenzene	ND	0.50 µg/L	01/27/11	01/27/11
		m,p-Xylene	ND	0.50 µg/L	01/27/11	01/27/11
		o-Xylene	ND	0.50 µg/L	01/27/11	01/27/11
		Surr: 1,2-Dichloroethane-d4	91	(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	104	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	01/27/11	01/27/11
Client ID :	GB-21-33.5-04-01241	1				
Lab ID :	CHH11012601-13A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/27/11	01/27/11
Date Sampled	01/24/11 13:30	Surr: Nonane	110	(49-145) %REC	01/27/11	01/27/11
		TPH-P (GRO)	ND	0.050 mg/L	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	1.0 μg/L	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	01/27/11	01/27/11
		Benzene	ND	0.50 µg/L	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	01/27/11	01/27/11
		Toluene	ND	0.50 µg/L	01/27/11	01/27/11
		Ethylbenzene	ND	0.50 µg/L	01/27/11	01/27/11
		m,p-Xylene	ND	0.50 µg/L	01/27/11	01/27/11
		o-Xylene	ND	0.50 µg/L	01/27/11	01/27/11
		Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	101	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	01/27/11	01/27/11



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#### Client ID : **GB-21-38.5-04-012411** Lab ID : CHH11012601-14A TPH-E

Lab ID :	CHH11012601-14A	TPH-E (Fuel Product)	ND		0.10 mg/L	01/27/11	01/27/11
Date Sampled	01/24/11 14:30	Surr: Nonane	102		(49-145) %REC	01/27/11	01/27/11
		TPH-P (GRO)	ND		0.050 mg/L	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	01/27/11	01/27/11
		Benzene	ND		0.50 µg/L	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	01/27/11	01/27/11
		Toluene	ND		0.50 µg/L	01/27/11	01/27/11
		Ethylbenzene	ND		0.50 µg/L	01/27/11	01/27/11
		m p-Xylene	ND		0.50 µg/L	01/27/11	01/27/11
		o-Xvlene	ND		0.50 μg/L	01/27/11	01/27/11
		Surr: 1.2-Dichloroethane-d4	96		(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	103		(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	94		(70-130) %REC	01/27/11	01/27/11
		Suit: Y Diomonuoloochizene	74		(70-150) /01120	01/2//11	01/2//11
Client ID :	QCEB-012411						
Lab ID :	CHH11012601-15A	TPH-E (Fuel Product)	ND	х	0.20 mg/L	01/27/11	01/27/11
Date Sampled	01/24/11 14:50	Surr: Nonane	101		(49-145) %REC	01/27/11	01/27/11
		TPH-P (GRO)	ND		0.050 mg/L	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND		1.0 ug/L	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	01/27/11	01/27/11
		Benzene	ND		0.50 µg/L	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 μg/L	01/27/11	01/27/11
		Toluene	ND		0.50 µg/L	01/27/11	01/27/11
		Ethylbenzene	ND		0.50 µg/L	01/27/11	01/27/11
		m.p-Xylene	ND		0.50 µg/L	01/27/11	01/27/11
		o-Xvlene	ND		0.50 µg/L	01/27/11	01/27/11
		Surr: 1.2-Dichloroethane-d4	05		(70-130) % REC	01/27/11	01/27/11
		Surr Tohene-d8	103		(70-130) % REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	04		(70-130) %REC	01/27/11	01/27/11
		Sun. 4-Diomondolobelizene	24		(70-130) /0KEC	01/2//11	01/27/11
Client ID :	GB-21-46.5-04-01241	1					
Lab ID :	CHH11012601-16A	TPH-E (Fuel Product)	ND		0.10 mg/L	01/27/11	01/27/11
Date Sampled	01/24/11 14:55	Surr: Nonane	101		(49-145) %REC	01/27/11	01/27/11
		TPH-P (GRO)	ND		0.050 mg/L	01/27/11	01/27/11
		Tertiary Butyl Alcohol (TBA)	140		10 µg/L	01/27/11	01/27/11
		Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	01/27/11	01/27/11
	,	Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	01/27/11	01/27/11
		Benzene	ND		0.50 µg/L	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	01/27/11	01/27/11
		Toluene	ND		0.50 ug/L	01/27/11	01/27/11
		Ethylbenzene	ND		0.50 ug/L	01/27/11	01/27/11
		m,p-Xylene	ND		0.50 µg/L	01/27/11	01/27/11
		o-Xylene	ND		0.50 µg/L	01/27/11	01/27/11
		Surr: 1,2-Dichloroethane-d4	95		(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	104		(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	88		(70-130) %REC	01/27/11	01/27/11
			~ ~				



Client ID :	QCTB-012411					
Lab ID :	CHH11012601-17A	Tertiary Butyl Alcohol (TBA)	ND	10 ug/L	01/27/11	01/27/11
Date Sampled	01/24/11 00:00	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	01/27/11	01/27/11
ľ		Di-isopropyl Ether (DIPE)	ND	$1.0 \ \mu g/L$	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	$1.0 \ \mu g/L$	01/27/11	01/27/11
		Benzene	ND	$0.50 \ \mu g/L$	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	01/27/11	01/27/11
		Toluene	ND	$0.50 \ \mu g/L$	01/27/11	01/27/11
		Ethylbenzene	ND	0.50 µg/L	01/27/11	01/27/11
		m,p-Xylene	ND	$0.50 \ \mu g/L$	01/27/11	01/27/11
		o-Xylene	ND	0.50 µg/L	01/27/11	01/27/11
		Surr: 1,2-Dichloroethane-d4	82	(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	103	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	01/27/11	01/27/11
Client ID :	OCED 012511					
Lab ID :	CUU11012601 26A	TDU E (Evel Dre heret)	ND	0.10	01/07/11	01/07/11
	01/05/11 12:00	Error News	ND	0.10 mg/L	01/27/11	01/27/11
Date Sampled	01/25/11 12:00	Sur: Nonane	102	(49-145) %REC	01/2//11	01/27/11
		Tentiere D. (1.1.1.1.1(TD.1)	ND	0.050 mg/L	01/27/11	01/27/11
		Methoda (184)	ND	10 µg/L	01/27/11	01/27/11
		Methyl tert-butyl ether (MIBE)	ND	0.50 µg/L	01/27/11	01/27/11
		DI-isopropyl Ether (DIPE)	ND	1.0 µg/L	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 μg/L	01/27/11	01/27/11
		Benzene	ND	0.50 µg/L	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	01/27/11	01/27/11
		Toluene	ND	0.50 µg/L	01/27/11	01/27/11
		Ethylbenzene	ND	0.50 µg/L	01/27/11	01/27/11
		m,p-Xylene	ND	0.50 µg/L	01/27/11	01/27/11
		o-Xylene	ND	0.50 µg/L	01/27/11	01/27/11
		Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	103	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	01/27/11	01/27/11
Client ID :	QCTBA-012511					
Lab ID :	CHH11012601-35A	Tertiary Butyl Alcohol (TBA)	ND	10 ц <u>е</u> /L	01/27/11	01/27/11
Date Sampled	01/25/11 00:00	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 ug/L	01/27/11	01/27/11
		Benzene	ND	0.50 µg/L	01/27/11	01/27/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	01/27/11	01/27/11
		Toluene	ND	0.50 µg/L	01/27/11	01/27/11
		Ethylbenzene	ND	0.50 µg/L	01/27/11	01/27/11
		m.p-Xvlene	ND	0.50 µg/L	01/27/11	01/27/11
		o-Xvlene	ND	0.50 µg/L	01/27/11	01/27/11
		Surr: 1.2-Dichloroethane-d4		(70-130) %REC	01/27/11	01/27/11
		Surr: Toluene-d8	103	(70-130) %REC	01/27/11	01/27/11
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	01/27/11	01/27/11
Client ID ·	OCTBR-012511					
	QUIDD-012511					
	CHH11012001-30A	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	01/27/11	01/27/11
Date Sampled	01/25/11 00:00	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	01/27/11	01/27/11
		Di-isopropyl Ether (DIPE)	ND	1.0 μg/L	01/27/11	01/27/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 μg/L	01/27/11	01/27/11
		Benzene	ND	0.50 µg/L	01/27/11	01/27/11
		Television of the second	ND	1.0 μg/L	01/27/11	01/27/11
		Toluene	ND	0.50 µg/L	01/27/11	01/27/11
		Eunyibenzene	ND	0.50 µg/L	01/27/11	01/27/11
		m,p-Xylene	ND	0.50 µg/L	01/27/11	01/27/11
		0-Aylene	ND	0.50 µg/L	01/27/11	01/27/11
		Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	01/27/11	01/27/11
		Surr: 10luene-dð	100	(70-130) %REC	01/27/11	01/27/11
		Suit: 4-Bromonuorobenzene	95	(70-130) %REC	01/27/11	01/27/11



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Gasoline Range Organics (GRO) C4-C13

X = Reporting Limits were increased due to sample matrix interferences.

ND = Not Detected

Roger Scholl Kandy Doulmen

Walter Aridman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

2/2/1

**Report Date** 



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#### VOC Sample Preservation Report

Work Order: CHH11012601	Job: KMEP Norwalk			
Alpha's Sample ID	Client's Sample ID	Matrix	pH	
11012601-12A	QCEB-012411 (Sample Shoe)	Aqueous	2	
11012601-13A	GB-21-33.5-04-012411	Aqueous	6	
11012601-14A	GB-21-38.5-04-012411	Aqueous	4	
11012601-15A	QCEB-012411	Aqueous	2	
11012601-16A	GB-21-46.5-04-012411	Aqueous	2	
11012601-17A	QCTB-012411	Aqueous	2	
11012601-26A	QCEB-012511	Aqueous	2	
11012601-35A	QCTBA-012511	Aqueous	2	
11012601-36A	QCTBB-012511	Aqueous	2	

2/2/11 Report Date



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<b>Date:</b> 01-Feb-11		QC S	Summar	y Repor	t			Work Orde 11012601	er: l
Method Blank File ID: 1A01271136.D		Туре	MBLK Te Ba	est Code: EP atch ID: 2587	PA Meti '9	nod SW80	)15B/C Ext Analysis Date	e: 01/28/2011 04:42	
Sample ID: MBLK- Analyte	25879 Units : m Result	g/Kg PQL	Run ID: <b>Fl</b> i SpkVal	D_1_110126 SpkRefVal	A %REC	LCL(ME)	Prep Date: UCL(ME) RPDRe	01/26/2011 12:13 fVal %RPD(Limit)	Qual
TPH-E (Fuel Product) Surr: Nonane	ND 7.76		5 6		129	62	161		
Laboratory Contro File ID: 1A01271137.D	l Spike	Туре	LCS Te Ba	est Code: EF atch ID: 2587	PA Meti '9	nod SW80	015B/C Ext Analysis Date	e: 01/28/2011 05:06	
Sample ID: LCS-2: Analyte	879 Units : m Result	g/Kg PQL	Run ID: Fl SpkVal	D_1_110126 SpkRefVal	A %REC	LCL(ME)	Prep Date: UCL(ME) RPDRe	01/26/2011 12:13 Val %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane	107 7.58		5 100 6		107 126	70 62	130 161		<u>.                                    </u>
Sample Matrix Spil File ID: 1A01271144.D	se	Туре	MS Te Ba	est Code: EF atch ID: 2587	PA Meti '9	nod SW80	)15B/C Ext Analysis Date	e: 01/28/2011 08:03	
Sample ID: 110126 Analyte	01-01AMS Units : m Result	g/Kg PQL	Run ID: <b>Fl</b> SpkVal	D_1_110126 SpkRefVal	A %REC	LCL(ME)	Prep Date: UCL(ME) RPDRe	01/26/2011 12:13 ofVal %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane	50 3.72		5 50 3	0	100 124	50 62	149 161		
Sample Matrix Spil File ID: 1A01271145.D	e Duplicate	Туре	MSD Te Ba	est Code: EF atch ID: 2587	PA Met 9	nod SW80	015B/C Ext Analysis Date	e: 01/28/2011 08:28	
Sample ID: 110126 Analyte	01-01AMSD Units : m Result	g/Kg PQL	Run ID: <b>Fl</b> SpkVal	D_1_110126 SpkRefVal	A %REC	LCL(ME)	Prep Date: UCL(ME) RPDRe	01/26/2011 12:13 ofVal %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane	72 3.41		5 50 3	0	144 114	50 62	149 50 161	36.0(46)	

#### **Comments:**



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<b>Date:</b> 01-Feb-11		QC Summary Report					<b>Work Orde</b> 11012601	er:			
Method Blank File ID: 1A012711 Sample ID: M Analyte	06.D BLK-25880	Units : <b>mg//</b> Result	Type (g PQL	MBLK Run ID: I SpkVa	Test Code: I Batch ID: <b>25</b> FID_1_1101: Il SpkRefVa	EPA Mei 880 26B al %REC	thod SW8	D15B/C Ext Analysis I Prep Date UCL(ME) RPI	Date: a: DRefV	01/27/2011 16:07 01/26/2011 13:13 al %RPD(Limit)	Qual
TPH-E (Fuel Prode Surr: Nonane	uct)	ND 7.74		5	5	129	62	161			
Laboratory Co File ID: 1A012711 Sample ID: LC	ntrol Spike 107.D CS-25880	Units : <b>mg/ł</b>	Type	LCS	Test Code: I Batch ID: 25 FID_1_1101	EPA Me 880 26B	thod SW8	015B/C Ext Analysis I Prep Date	Date:	01/27/2011 16:32 01/26/2011 13:13	
TPH-E (DRO) Surr: Nonane		105 8.05	PQL	5 10	) 6	105 134	70 62	130 161	DRetv	ai %RPD(Limit)	Quai
Sample Matrix File ID: 1A012711 Sample ID: 11 Analyte	Spike 109.D 1012601-22AMS	Units : <b>mg/ł</b> Result	Type (g PQL	MS Run ID: I SpkVa	Test Code: I Batch ID: <b>25</b> FID_1_1101: I SpkRefVa	E <b>PA Me</b> i 880 26 <b>B</b> al %REC	thod SW8	015B/C Ext Analysis I Prep Date UCL(ME) RPI	Date: : DRefV	01/27/2011 17:23 01/26/2011 13:13 al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		60.3 4.02		5 5	) (	0 121 134	50 62	149 161			
Sample Matrix File ID: 1A012711 Sample ID: 11 Apalyte	Spike Duplicate 10.D 1012601-22AMSD	Units : <b>mg/ł</b> Rosult	Type	MSD Run ID: I	Test Code: I Batch ID: 25 FID_1_1101:	EPA Mei 880 26B	thod SW8	D15B/C Ext Analysis I Prep Date	Date:	01/27/2011 17:49 01/26/2011 13:13 al %PPD(Limit)	
TPH-E (DRO) Surr: Nonane		54.4 4.53		5 5	) 3	0 109 151	50 62	149 161	60.27	10.2(46)	

#### **Comments:**


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<b>Date:</b> 01-Feb-11		(	QC S	ummar	y Repor	t		-		Work Orde 11012601	er:
Method Blan File ID: 7A0121 Sample ID:	k  1169.D MBLK-25882	Units : <b>mg/L</b>	Type N	ABLK Te Ba Run ID: FI	est Code: El atch ID: <b>258</b> D_7_11012:	PA Met 82 7A	hod SW80	) <b>15B/C Ex</b> Analy Prep I	t sis Date: Date:	01/27/2011 10:54 01/27/2011 09:04	
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-E (Fuel Pr Surr: Nonane	oduct)	ND 0.153	0.1	0.15		102	49	145			
Laboratory ( File ID: 7A0121	Control Spike 1170.D		Type L	. <b>CS</b> Te Ba	est Code: El atch ID: 258	PA Met 82	hod SW8	)15B/C Ex Analy	t sis Date:	01/27/2011 11:20	
Sample ID:	LCS-25882	Units : mg/L		Run ID: FI	D_7_11012	7 <b>A</b>		Prep	Date:	01/27/2011 09:04	
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		2.5 0.162	0.05	5 2.5 0.15		99.8 108	70 49	130 145			
Sample Matr File ID: 7A0121	rix Spike 11173.D		Type N	<b>IS</b> Te Ba	est Code: El atch ID: 258	PA Met 82	hod SW8(	)15B/C Ex Analy	t sis Date:	01/27/2011 12:39	_
Sample ID:	11012602-01AMS	Units : mg/L		Run ID: FI	D_7_11012	7A		Prep I	Date:	01/27/2011 09:04	
Analyte	φ.	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		2.43 0.146	0.05	5 2.5 0.15	0	97 97	53 49	150 145			
Sample Matr	ix Spike Duplicate		Туре М	ISD Te	est Code: El	PA Met	hod SW80	)15B/C Ex	t		
File ID: 7A0121	1174.D			Ba	atch ID: 258	82		Analy	sis Date:	01/27/2011 13:05	
Sample ID:	11012602-01AMSD	Units : mg/L		Run ID: FI	D_7_110127	7A		Prep l	Date:	01/27/2011 09:04	
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		2.36 0.155	0.05	2.5 0.15	0	94 103	53 49	150 145	2.432	2 3.0(47)	

#### Comments:



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<b>Date:</b> 01-Feb-11			QC S	Sun	nmar	y Rep	ort	-				Work Orde 11012601	er:
Method Blank File ID: 11012710.I	D		Туре	MBL	K Te Ba	est Code: atch ID: N	EP	A Met 8S5872	hod SW80 2B	015B/C Analy	sis Date:	01/27/2011 13:27	
Sample ID: ME	BLK MS08S5872B	Units : mg/l	٨g	Ru	n ID: <b>M</b>	SD 08 1	101:	27A		Prep I	Date:	01/27/2011 13:27	
Analyte		Result	PQL	:	SpkVal	SpkRef	/al 🤅	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroet Surr: Toluene-d8 Surr: 4-Bromofluoro	thane-d4 obenzene	ND 0.196 0.206 0.196		1	0.2 0.2 0.2			98 103 98	70 70 70	130 130 130			
Laboratory Con	trol Spike		Туре	LCS	Τe	est Code:	EP	A Met	hod SW8	015B/C			
File ID: 11012714.	D				Ba	atch ID: N	ISO	8S587	2B	Analy	sis Date:	01/27/2011 15:06	
Sample ID: GL	CS MS08S5872B	Units : mg/I	٨g	Ru	n ID: MS	SD_08_1	101	27A		Prep I	Date:	01/27/2011 15:06	
Analyte		Result	PQL	;	SpkVal	SpkRef\	/al 🤉	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroet Surr: Toluene-d8 Surr: 4-Bromofluoro	thane-d4 obenzene	16.7 0.398 0.389 0.428		2	16 0.4 0.4 0.4			105 99 97 107	63 70 70 70	148 130 130 130			
Sample Matrix S	Spike		Type	MS	Τe	est Code:	EP	A Met	hod SW8	015B/C			
File ID: 11012715.	D				Ba	atch ID: N	150	8S587	2B	Analy	sis Date:	01/27/2011 15:30	
Sample ID: 110	012601-08AGS	Units : mg/l	٨g	Ru	n ID: <b>M</b>	SD 08 1	101	27A		Prep I	Date:	01/27/2011 15:30	
Analyte		Result	PQL	:	SpkVal	SpkRef\	/al 🤅	%REC	LCL(ME)	UCL(ME)	RPDRef	/al %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroet Surr: Toluene-d8 Surr: 4-Bromofluoro	thane-d4 obenzene	15.9 0.373 0.389 0.422		2	16 0.4 0.4 0.4		0	99 93 97 106	35 70 70 70	166 130 130 130			
Sample Matrix S	Spike Duplicate		Туре	MSD	Te	est Code:	EP	A Met	hod SW8	015B/C			
File ID: 11012716.	D				Ba	atch ID: N	ISO	8S5872	2B	Analy	sis Date:	01/27/2011 15:55	
Sample ID: 110	012601-08AGSD	Units : <b>mg/l</b>	٢g	Ru	n ID: M	SD_08_1	101:	27A		Prep í	Date:	01/27/2011 15:55	
Analyte		Result	PQL	:	SpkVal	SpkRef\	/al 🤉	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroet Surr: Toluene-d8 Surr: 4-Bromofluoro	thane-d4 obenzene	16.2 0.397 0.395 0.43		2	16 0.4 0.4 0.4		0	101 99 99 107	35 70 70 70	166 130 130 130	15.86	6 1.9(33)	

#### Comments:



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<b>Date:</b> 01-Feb-11			QC S	Su	mmary	' Rep	or	t			Work Order: 11012601           5B/C         Analysis Date: 01/28/2011 11:50           Prep Date:         01/28/2011 11:50           ICL(ME) RPDRefVal %RPD(Limit)         0           130         130           130         130           130         130           5B/C         Analysis Date:         01/28/2011 13:28           ICL(ME) RPDRefVal %RPD(Limit)         0           148         130           130         130           5B/C         Analysis Date:         01/28/2011 13:53           ICL(ME) RPDRefVal %RPD(Limit)         0           148         130         130           130         130         130           5B/C         Analysis Date:         01/28/2011 13:53           ICL(ME) RPDRefVal %RPD(Limit)         0           166         130         130           130         130         130           130         130         130           130         130         14.9(33)           130         130         130           130         130         130           130         130         130           130         130         14.9(33)	er:	
Method Blank			Туре	MB	LK Te	st Code	: EF	PA Met	hod SW80	)15B/C			
File ID: 11012808	3.D				Bat	tch ID: N	NSO	8\$587	4B	Analy	sis Date:	01/28/2011 11:50	
Sample ID: M	BLK MS08S5874B	Units : mg/l	۲g	R	un ID: MS	D_08_1	101	28A		Prep l	Date:	01/28/2011 11:50	
Analyte		Result	PQL		SpkVal 3	SpkRef	Val	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO)		ND		1									
Surr: 1,2-Dichloro	ethane-d4	0.199			0.2			99	70	130			
Surr: Toluene-d8		0.211			0.2			105	70	130			
Surr: 4-Bromofluo	robenzene	0.196			0.2			98	70	130			
Laboratory Co	ontrol Spike		Туре	LC	S Te	st Code	: EF	PA Met	hod SW8(	)15B/C			
File ID: 11012812	2.D				Bat	tch ID: N	NS0	8S587	4B	Analy	sis Date:	01/28/2011 13:28	
Sample ID: G	LCS MS08S5874B	Units : mg/I	٨g	R	un ID: MS	D_08_1	101	28A		Prep I	Date:	01/28/2011 13:28	
Analyte		Result	PQL		SpkVal	SpkRef	Val	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO)		17.3		2	16			108	63	148			
Surr: 1,2-Dichloro	ethane-d4	0.404			0.4			101	70	130			
Surr: Toluene-d8		0.385			0.4			96	70	130			
Surr: 4-Bromofluo	robenzene	0.429			0.4			107	70	130			
Sample Matrix	Spike		Туре	MS	Te	st Code	: EF	PA Met	hod SW8(	)15B/C			
File ID: 11012813	3.D				Bat	tch ID: N	NS0	8\$587	4B	Analy	sis Date:	01/28/2011 13:53	
Sample ID: 11	1012601-24AGS	Units : mg/l	۲g	R	mmary Report           BLK         Test Code: EPA Method SW8015B/C Batch ID: MS0855874B         Analysis Date: 01/2           Run ID: MSD_08_110128A         Prep Date: 01/2           SpkVal         SpkRefVal %REC         LCL(ME)           0.2         99         70         130           0.2         99         70         130           0.2         98         70         130           0.2         98         70         130           0.2         98         70         130           0.2         98         70         130           0.2         98         70         130           0.2         98         70         130           0.2         98         70         130           0.2         98         70         130           0.2         98         70         130           16         1080855874B         Analysis Date: 01/2           SpkVal         SpkRefVal %REC         LCL(ME) UCL(ME) RPDRefVal %           16         108         63         148           0.4         107         70         130           0.4         107         70         130	01/28/2011 13:53							
Analyte		Result	PQL		SpkVal 3	SpkRef	Val	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO)		16.4		2	16		0	102	35	166			
Surr: 1,2-Dichloro	ethane-d4	0.4			0.4			100	70	130			
Surr: Toluene-d8		0.38			0.4			95	70	130			
Surr: 4-Bromotiuo	robenzene	0.422			0.4			105	70	130			
Sample Matrix	Spike Duplicate		Туре	MS	D Te	st Code	: EF	PA Met	hod SW80	)15B/C			
File ID: 11012814	.D				Bat	tch ID: N	MS0	8S587	4B	Analy	sis Date:	01/28/2011 14:18	
Sample ID: 11	1012601-24AGSD	Units : <b>mg/l</b>	٨g	R	un ID: <b>MS</b>	D_08_1	101	28A		Prep I	Date:	01/28/2011 14:18	
Analyte		Result	PQL		SpkVal 3	SpkRef\	Val	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO)		14.1		2	16		0	88	35	166	16.39	14.9(33)	
Surr: 1,2-Dichloro	ethane-d4	0.404			0.4			101	70	130		· · ·	
Surr: Toluene-d8		0.379			0.4			95	70	130			
Surr: 4-Bromofluo	robenzene	0.436			0.4			109	70	130			

#### **Comments:**



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<b>Date:</b> 01-Feb-11	(	)C S	ummar	y Repor	t				<b>Work Orde</b> 11012601	er:
Method Blank File ID: 11012704.D		Туре М	IBLK Te Ba	est Code: El atch ID: MS	PA Met	hod SW8( 27B	)15B/C Analys	sis Date:	01/27/2011 09:52	
Sample ID: MBLK MS12W0127B	Units : ma/L		Run ID: M	SD 12 110	127A		Prep D	Date:	01/27/2011 09:52	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef√	al %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	ND 0.0089 0.0103 0.00891	0.05	0.01 0.01 0.01		89 103 89	70 70 70 70	130 130 130			
Laboratory Control Spike		Type L	.CS Te	est Code: El	PA Met	hod SW80	15B/C			
File ID: 11012702.D			Ba	atch ID: MS	12W012	27 <b>B</b>	Analys	sis Date:	01/27/2011 09:07	
Sample ID: GLCS MS12W0127B	Units : mg/L		Run ID: M	SD_12_110	127A		Prep D	Date:	01/27/2011 09:07	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef∖	al %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	0.411 0.00839 0.0105 0.00999	0.05	0.4 0.01 0.01 0.01		103 84 105 99.9	70 70 70 70 70	130 130 130 130			
Sample Matrix Spike		Type N	IS Te	est Code: El	PA Met	hod SW80	15B/C			
File ID: 11012714.D			Ba	atch ID: MS	12W012	27B	Analys	sis Date:	01/27/2011 13:49	
Sample ID: 11012601-13AGS	Units : mg/L		Run ID: M	SD_12_110	127A		Prep D	Date:	01/27/2011 13:49	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef∖	/al %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	2.02 0.0436 0.051 0.0482	0.25	0.05 0.05 0.05 0.05	0	101 87 102 96	51 70 70 70	144 130 130 130			
Sample Matrix Spike Duplicate		Туре N	ISD Te	est Code: El	PA Meti	hod SW80	15B/C			
File ID: 11012715.D			Ba	atch ID: MS	12W012	7B	Analys	sis Date:	01/27/2011 14:12	
Sample ID: 11012601-13AGSD	Units : <b>mg/L</b>		Run ID: M	SD_12_110 <sup>-</sup>	127A		Prep D	Date:	01/27/2011 14:12	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef∖	/al %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	2.14 0.0436 0.0509 0.0488	0.25	2 0.05 0.05 0.05	0	107 87 102 98	51 70 70 70	144 130 130 130	2.019	5.7(29)	

#### Comments:



<b>Date:</b> 07-Feb-11		QC S	ummar	y Repor	t			<b>Work Ord</b> 11012601	er:
Method Blank File ID: 11012710.D		Туре: №	I <b>BLK</b> T B	est Code: E atch ID: <b>MS</b>	PA Met 08S587	hod SW8 2A	260B Analysis Date:	01/27/2011 13:27	
Sample ID: MBLK MS08S5872A	Units : <b>µg/#</b>	(g	Run ID: M	SD_08_110	127A		Prep Date:	01/27/2011 13:27	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	√al %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	500							
Methyl tert-butyl ether (MTBE)	ND	5							
Di-isopropyl Ether (DIPE)	ND	20	1						
Ethyl Tertiary Butyl Ether (ETBE)	ND	20	1						
Benzene	ND	5							
Tertiary Amyl Methyl Ether (TAME)	ND	20	I						
loluene	ND	5	I						
Ethylbenzene	ND	5	I.			••			
m,p-Xylene	ND	5	1						
O-Aylene	ND	5			~~		400		
Surr: Toluono de	196		200		98	70	130		
Surr: A-Bromofluorobonzono	206		200		103	70	130		
Sur: 4-Bromonuorobenzene	196		200		98	70	130		
Laboratory Control Spike		Type: L	CS T	est Code: E	PA Met	hod SW82	260B		
File ID: 11012711.D			B	atch ID: MS	08S587	2A	Analysis Date:	01/27/2011 13:52	
Sample ID: LCS MS08S5872A	Units : µg/¥	(g	Run ID: M	SD_08_110	127A		Prep Date:	01/27/2011 13:52	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	/al %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	2290	1000	4000		57	14	156		
Methyl tert-butyl ether (MTBE)	423	10	400		106	61	147		
Di-isopropyl Ether (DIPE)	485	20	400		121	68	150		
Ethyl Tertiary Butyl Ether (ETBE)	445	20	400		111	66	150		
Benzene	474	10	400		118	70	138		
Tertiary Amyl Methyl Ether (TAME)	408	20	400		102	61	148		
Toluene	424	10	400		106	70	137		
Ethylbenzene	437	10	400		109	70	138		
m,p-Xylene	396	10	400		99	70	145		
o-Xylene	392	10	400		98	70	145		
Surr: 1,2-Dichloroethane-d4	421		400		105	70	130		
Surr: 1 Diuene-d8	373		400		93	70	130		
Surr: 4-Bromotiuorobenzene	450		400		113	70	130		
Sample Matrix Spike		Type: M	S T	est Code: El	PA Met	hod SW82	260B		
File ID: 11012712.D			Ba	atch ID: MS	08\$587	2A	Analysis Date:	01/27/2011 14:16	
Sample ID: 11012601-08AMS	Units : µg/K	g	Run ID: M	SD_08_110 <sup>-</sup>	127A		Prep Date:	01/27/2011 14:16	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	/al %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	2330	1000	4000	0	58	10	171		
Methyl tert-butyl ether (MTBE)	399	10	400	0	99.9	42	157		
Di-isopropyl Ether (DIPE)	458	20	400	0	114	49	157		
Ethyl Tertiary Butyl Ether (ETBE)	420	20	400	0	105	48	158		
Benzene	449	10	400	0	112	53	150		
Tertiary Amyl Methyl Ether (TAME)	385	20	400	0	96	45	152		
Toluene	400	10	400	0	99.9	51	149		
Ethylbenzene	414	10	400	0	103	54	150		
m,p-Xylene	377	10	400	0	94	50	161		
o-Xylene	370	10	400	0	92	35	177		
Surr: 1,2-Dichloroethane-d4	422		400		105	70	130		
Surr: 1 oluene-d8	371		400		93	70	130		
Surr: 4-Bromotiuorobenzene	459		400		115	70	130		



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<b>Date:</b> 07-Feb-11		QC Su	mmar	y Repor	t				Work Ord 1101260	er: I
Sample Matrix Spike Duplicate		Type: MS	SD T	est Code: El	PA Met	hod SW82	260B			
File ID: 11012713.D			B	atch ID: MS(	)8S587	2A	Analysi	s Date: 0	1/27/2011 14:41	
Sample ID: 11012601-08AMSD	Units : µg/ዞ	(g F	Run ID: M	SD_08_110 <sup>-</sup>	127A		Prep Da	ate: O	1/27/2011 14:41	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) R	PDRefVa	8 %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	2150	1000	4000	0	54	10	171	2325	7.9(40)	
Methyl tert-butyl ether (MTBE)	386	10	400	0	96	42	157	399.5	3.5(32)	
Di-isopropyl Ether (DIPE)	434	20	400	0	108	49	157	457.9	5.5(31)	
Ethyl Tertiary Butyl Ether (ETBE)	404	20	400	0	101	48	158	420	3.8(31)	
Benzene	428	10	400	0	107	53	150	448.9	4.9(26)	
Tertiary Amyl Methyl Ether (TAME)	364	20	400	Ó	91	45	152	384.9	5.6(30)	
Toluene	377	10	400	0	94	51	149	399.7	5.8(26)	
Ethylbenzene	392	10	400	Ó	98	54	150	413.5	5.4(29)	
m,p-Xylene	360	10	400	Ó	90	50	161	376.7	4.6(38)	
o-Xylene	349	10	400	0	87	35	177	369.5	5.8(40)	
Surr: 1,2-Dichloroethane-d4	418		400		105	70	130			
Surr: Toluene-d8	368		400		92	70	130			
Surr: 4-Bromofluorobenzene	450		400		113	70	130			

#### Comments:



<b>Date:</b> 07-Feb-11	(	QC Su	ımmar	y Repor	t			Work Ord 1101260	er: l
Method Blank File ID: 11012808.D		Туре: М	<b>BLK</b> Te Ba	est Code: El atch ID: MS(	PA Met 08S587	hod SW82 4A	260B Analysis Date:	01/28/2011 11:50	
Sample ID: MBLK MS08S5874A	Units : ua/Ka		Run ID: MS	SD 08 110	128A		Prep Date:	01/28/2011 11:50	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
Tertian/ Butyl Alcobol (TBA)	ND	500						<u>_</u>	
Methyl tert-butyl ether (MTBE)		500							
Di-isopropyl Ether (DIPE)	ND	20							
Ethyl Tertiary Butyl Ether (FTBF)	ND	20							
Benzene	ND	5							
Tertiary Amyl Methyl Ether (TAME)	ND	20							
Toluene	ND	5							
Ethylbenzene	ND	5							
m,p-Xylene	ND	5							
o-Xylene	ND	5							
Surr: 1,2-Dichloroethane-d4	199		200		99	70	130		
Surr: Toluene-d8	211		200		105	70	130		
Surr: 4-Bromofluorobenzene	196		200		98	70	130		
Laboratory Control Spike		Type: LO	CS Te	est Code: El	PA Met	hod SW82	260B		
File ID: <b>11012809.D</b>			Ba	atch ID: MS0	)8S587	4A	Analysis Date:	01/28/2011 12:14	
Sample ID: LCS MS08S5874A	Units : µg/Kg	I	Run ID: MS	SD_08_110 <sup>,</sup>	128A		Prep Date:	01/28/2011 12:14	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	2880	1000	4000		72	14	156		
Methyl tert-butyl ether (MTBE)	432	10	400		108	61	147		
Di-isopropyl Ether (DIPE)	491	20	400		123	68	150		
Ethyl Tertiary Butyl Ether (ETBE)	447	20	400		112	66	150		
Benzene	486	10	400		122	70	138		
Tertiary Amyl Methyl Ether (TAME)	413	20	400		103	61	148		
Toluene	422	10	400		105	70	137		
Ethylbenzene	440	10	400		110	70	138		
m,p-Xylene	401	10	400		100	70	145		
o-Xylene	392	10	400		98	70	145		
Surr: 1,2-Dichloroethane-d4	438		400		110	70	130		
Surr: Toluene-d8	368		400		92	70	130		
Surr: 4-Bromofluorobenzene	455		400		114	70	130		
Sample Matrix Spike		Type: M	S Te	est Code: El	PA Met	hod SW82	260B		
File ID: 11012810.D			Ba	atch ID: MS	)8S587	4A	Analysis Date:	01/28/2011 12:39	
Sample ID: 11012601-24AMS	Units : µg/Kç	J	Run ID: M	SD_08_110 <sup>.</sup>	128A		Prep Date:	01/28/2011 12:39	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	2520	1000	4000	0	63	10	171		
Methyl tert-butyl ether (MTBE)	385	10	400	0	96	42	157		
Di-isopropyl Ether (DIPE)	432	20	400	0	108	49	157		
Ethyl Tertiary Butyl Ether (ETBE)	399	20	400	0	99.7	48	158		
Benzene	426	10	400	0	107	53	150		
Tertiary Amyl Methyl Ether (TAME)	357	20	400	0	89	45	152		
Toluene	370	10	400	0	92	51	149		
Ethylbenzene	381	10	400	0	95	54	150		
m,p-Xylene	347	10	400	0	87	50	161		
o-Xylene	340	10	400	0	85	35	177		
Surr: 1,2-Dichloroethane-d4	444		400		111	70	130		
Surr: 1 Oluene-dð	368		400		92	70	130		
Surr. 4-Bromonuoropenzene	458		400		115	70	130		



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<b>Date:</b> 07-Feb-11	(	QC Sı	ummar	y Repor	t				Work Ord 1101260	er: 1
Sample Matrix Spike Duplicate		Туре: М	SD T	est Code: El	PA Met	hod SW82	260B			
File ID: 11012811.D			Ba	atch ID: MS	)8S587	'4A	Analy	sis Date: 0	1/28/2011 13:04	
Sample ID: 11012601-24AMSD	Units : µg/K	g	Run ID: M	SD_08_110 <sup>.</sup>	128A		Prep	Date: 0	1/28/2011 13:04	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVa	%RPD(Limit)	Qua
Tertiary Butyl Alcohol (TBA)	2030	1000	4000	0	51	10	171	2516	21.4(40)	
Methyl tert-butyl ether (MTBE)	348	10	400	0	87	42	157	384.8	9.9(32)	
Di-isopropyl Ether (DIPE)	398	20	400	0	99	49	157	431.7	8.2(31)	
Ethyl Tertiary Butyl Ether (ETBE)	361	20	400	0	90	48	158	398.6	9.8(31)	
Benzene	394	10	400	Ō	98	53	150	426.5	8.0(26)	
Tertiary Amyl Methyl Ether (TAME)	335	20	400	0	84	45	152	357	6.4(30)	
Toluene	335	10	400	0	84	51	149	369.6	9.7(26)	
Ethylbenzene	345	10	400	0	86	54	150	381.4	10.1(29)	
m,p-Xylene	313	10	400	0	78	50	161	346.5	10.0(38)	
o-Xylene	308	10	400	0	77	35	177	340.4	10.1(40)	
Surr: 1,2-Dichloroethane-d4	439		400		110	70	130			
Surr: Toluene-d8	364		400		91	70	130			
Surr: 4-Bromofluorobenzene	451		400		113	70	130			

#### **Comments:**



Date: 07-Feb-11	(	QC Su	mmary	y Repor	t			<b>Work Ord</b> 1101260	er:
Method Blank		Type: MB	LK Te	est Code: El	PA Met	hod SW82	260B		
File ID: 11012704.D		,,	Ba	atch ID: MS	12W012	27A	Analysis Date:	01/27/2011 09:52	
Sample ID: MBLK MS12W0127A	Units · un/l	R	un ID: MS	SD 12 110	127 <b>Δ</b>		Prep Date:	01/27/2011 09:52	
Analyte	Result	POI	SnkVal	SokReft/al	%RFC	LCI (ME)	UCI (ME) RPDRef	Val %RPD(Limit)	Qual
Tertian (Butul Alashal (TBA)	ND	100	opicial	opkitcivai	/01/12/0				
Methyl tert-butyl etber (MTRE)		10							
Di-isopropyl Ether (DIPE)		0.5							
Ethyl Tertian Butyl Ethor (ETRE)		1							
		1							
Tertian/ Amyl Methyl Ether (TAME)	ND	0.5							
		0.5							
Ethylbenzene		0.5							
m n-Xvlene		0.5							
o-Xvlene		0.5							
Surr: 1 2-Dichloroethane-d4	80	0.5	10		80	70	130		
Surr: Toluene-d8	10.3		10		102	70	130		
Surr: 4-Bromofluorobenzene	8.91		10		89	70	130		
Laboratory Control Spike	0.01	Type I C		est Code: El	PA Met	hod SW82	260B		
File ID: 11012703.D		1 ypo: <b>LO</b>	Ba	atch ID: MS	12W012	27A	Analysis Date:	01/27/2011 09:29	
Sample ID: I CS MS12W0127A	l Inite : un/l			CD 42 440	1278		Pron Date:	01/27/2011 00:20	
	Drault			0.12_110					Qual
	Result	PQL	Sprvai	SpkRerval	%REC	LCL(IVIE)	UCL(IVIE) RPDRei		Quai
Tertiary Butyl Alcohol (TBA)	71.1	10	100		71	44	156		
Methyl tert-butyl ether (MTBE)	7.88	0.5	10		79	65	140		
Di-isopropyl Ether (DIPE)	6.91	1	10		69	70	130		L50
Ethyl Tertiary Butyl Ether (ETBE)	7.27	1	10		73	65	139		
Benzene	8.61	0.5	10		86	70	130		
Tertiary Amyl Methyl Ether (TAME)	8.03	1	10		80	68	134		
Toluene	8.82	0.5	10		88	80	120		
Ethylbenzene	9.24	0.5	10		92	80	120		
m,p-Xylene	9.2	0.5	10		92	70	130		
o-Xylene	9.43	0.5	10		94	70	130		
Surr: 1,2-Dichloroethane-d4	8.28		10		83	70	130		
Surr: Toluene-d8	10.5		10		105	70	130		
Surr: 4-Bromofluorobenzene	9.95		10		100	70	130		
Sample Matrix Spike		Type: MS	Te	est Code: El	PA Met	hod SW82	260B		
File ID: 11012712.D			Ba	atch ID: MS <sup>2</sup>	12W012	27A	Analysis Date:	01/27/2011 13:04	
Sample ID: 11012601-13AMS	Units : µg/L	R	un ID: MS	SD_12_110 <sup>.</sup>	127A		Prep Date:	01/27/2011 13:04	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	399	25	500	0	80	41	157		
Methyl tert-butyl ether (MTBE)	43.5	1.3	50	0	87	47	150		
Di-isopropyl Ether (DIPE)	36.4	2.5	50	0	73	59	139		
Ethyl Tertiary Butyl Ether (ETBE)	38.7	2.5	50	0	77	59	182		
Benzene	44.3	1.3	50	0	89	59	138		
Tertiary Amyl Methyl Ether (TAME)	43.4	2.5	50	0	87	63	135		
Toluene	42.5	1.3	50	0	85	68	130		
Ethylbenzene	45.2	1.3	50	0	90	68	130		
m,p-Xylene	44	1.3	50	0	88	68	131		
o-Xylene	46.5	1.3	50	0	93	70	130		
Surr: 1,2-Dichloroethane-d4	45.6		50		91	70	130		
Surr: Toluene-d8	49.8		50		99.5	70	130		
Surr: 4-Bromofluorobenzene	48.8		50		98	70	130		



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

<b>Date:</b> 07-Feb-11	(	QC Su	mmar	y Repor	t				<b>Work Ord</b> 1101260	<b>er:</b> 1
Sample Matrix Spike Duplicate File ID: 11012713.D		Type: MS	SD To Bi	est Code: El atch ID: MS1	PA Met	hod SW82	260B Analys	sis Date: <b>0</b> 1	1/27/2011 13:27	
Sample ID: 11012601-13AMSD	Units : µg/L	F	Run ID: M	SD 12 110 <sup>-</sup>	127A		Prep D	Date: 0	1/27/2011 13:27	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qua
Tertiary Butyl Alcohol (TBA)	393	25	500	0	79	41	157	399.3	1.5(30)	
Methyl tert-butyl ether (MTBE)	42.1	1.3	50	0	84	47	150	43.48	3.1(40)	
Di-isopropyl Ether (DIPE)	35.8	2.5	50	0	72	59	139	36.41	1.8(20)	
Ethyl Tertiary Butyl Ether (ETBE)	38.1	2.5	50	· 0	76	59	182	38.7	1.5(40)	
Benzene	43.7	1.3	50	0	87	59	138	44.25	1.2(21)	
Tertiary Amyl Methyl Ether (TAME)	42.7	2.5	50	Ó	85	63	135	43.42	1.7(40)	
Toluene	42.7	1.3	50	Ō	85	68	130	42.47	0.4(20)	
Ethylbenzene	45.3	1.3	50	0	91	68	130	45.23	0.1(20)	
m,p-Xylene	44.3	1.3	50	0	89	68	131	44	0.6(20)	
o-Xylene	46.7	1.3	50	Ō	93	70	130	46.45	0.6(20)	
Surr: 1,2-Dichloroethane-d4	43.9		50		88	70	130			
Surr: Toluene-d8	50.5		50		101	70	130			
Surr: 4-Bromofluorobenzene	49.1		50		98	70	130			

#### **Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

L50 = Analyte recovery was below acceptance limits for the LCS, but was acceptable in the MS/MSD.

Billing Information :			CH/	AIN	-OF	-Cl	JSTO	DY REC	ORD		Page: 1 of 5
					Alp	ha A	nalyti	cal, Inc.		WorkOrder .	CHHI 11012601
-				255 Glen TH	idale Ave EL: (775	2010e, Sui 355-10-	te 21 Spar 44 FAX: (	rks, Nevada 89431-57 (775) 355-0406	78 Re	eport Due By : 5	:00 PM On : 03-Feb-2011
Client:		71	Report Atten	tion	Pho	ne Num	ber	EMail Address			
CH2M Hill			Daniel Jablon	ıski	(213	) 228-82	71 x	daniel.jablonski@ch	l2m.com		
1000 Wilshire Boule	evard		Vladimir Car	ino	(213	) 228-82	71 x	vladimir.carino@ch	2m.com	EDD Required : Yes	S
Los Angeles, CA 90	0017	ľ								Sampled by : Mai	itt Mayry
PO :										Cooler Temp	Samples Received Date Printed
Client's COC #: 32008	8, 32007, 32006, 3199 Jc	ж : d	(MEP Norwa	¥						0°C	26-Jan-2011 26-Jan-2011
QC Level : S3 =	= Final Rpt, MBLK, LCS	, MS/M	SD With Su	rrogates	.,						
									<b>Requested Tes</b>	ts	
Alpha C	lient		Collection	No. of	Bottles		P_MOIST	TPH/E_S TPH/E_W	TPH/P_S TPH/P_	W VOC_S VOC_W	
Sample ID S	ample ID	Matrix	Date	Alpha	Sub	TAT					Sample Remarks
CHH11012601-01A G	iB-21-10.5-01-012411	SO	01/24/11 08:22	ω	0	O	Percent Moisture	Fuel Product	GAS-C	BTEX/OXY_	(2) MeOH voas (1) Geoprobe Report on a dry weight basis.
CHH11012601-02A G	3B-21-10.5-02-012411	SO	01/24/11 08:25	ω	0	ი	Percent Moisture	Fuel Product	GAS-C	BTEX/OXY_ C	(2) MeOH voas (1) Geoprobe Report on a dry weight basis.
CHH11012601-03A G	iB-21-20-01-012411	SO	01/24/11 09:40	ы	0	თ	Percent Moisture	Fuel Product	GAS-C	BTEX/OXY_ C	(2) MeOH voas (1) 4oz. jar Report on a dry weight basis.
CHH11012601-04A G	3B-21-20-02-012411	SO	01/24/11 09:45	ω	0	ი	Percent Moisture	Fuel Product	GAS-C	BTEX/OXY	(2) MeOH voas (1) 4oz. jar Report on a dry weight basis.
CHH11012601-05A G	iB-21-22-01-012411	SO	01/24/11 10:05	ω	0	ი	Percent Moisture	Fuel Product	GAS-C	BTEX/OXY_C	(2) MeOH voas (1) 4oz. jar Report on a dry weight basis.
CHH11012601-06A G	iB-21-30-01-012411	SO	01/24/11 10:15	မ	0	6	Percent Moisture	Fuel Product	GAS-C	BTEX/OXY_ C	(2) MeOH voas (1) 4oz. jar Report on a dry weight basis.
CHH11012601-07A G	iB-21-32-01-012411	SO	01/24/11 10:30	ω	0	6	Percent Moisture	Fuel Product	GAS-C	BTEX/OXY_ C	(2) MeOH voas (1) 4oz. jar Report on a dry weight basis.
CHH11012601-08A G	iB-21-32-03-012411	SO	01/24/11 10:33	<b>රා</b>	0	თ	Percent Moisture	Fuel Product	GAS-C	BTEX/OXY_	(3) MeOH voas (2) 4oz. jars Report on a dry weight basis. MS/MSD
Comments: <u>Se</u>	ecurity seals intact. Frozen ) 9:48 changed sample ID o	ice. An n sampl	alysts: Run ty e -12A from (	wo analy QCEB-0	<u>ses in or</u> 12411 :	der to ac (soil) to (	hieve lower QCEB-0124	reporting limits for ai 411 (sample shoe).	ll other analytes due	to high TBA values. Per J	phone conversation w/ Matt Mayry 1/26/11
	>	Signa	iture				Ì	Print Name		Compan	ay Date/Time
Logged in by:	Complet	51	( Lall	Jox Jox			T	zabuth	Hdcas	Alpha Analytic	ical, Inc. 1-2(6.11 1138
NOTE: Sampl	les are discarded 60 dav	s after i	results are re	eported	unless	other ar	rangement	ts are made. Hazar	dous samples will	be returned to client or	disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :			CH/	IN-	OF-	ĊU	STC	DY RI	ECC	ORD		) D			Page:	2 of 5
			2	55 Glend	Alph ale Aven	<b>a An</b> ue, Suite	1 <b>alyti</b> 21 Spa	cal, Inc. rks, Nevada 894	431-5778		Wo	rkOrd	ler : (	CHHL1	10126 )n · na	501 5-Feb-2011
Client:		<u>ک</u>	eport Attent		Phon	e Numb		EMail Addr	SS SS		•		•			
CH2M Hill			aniel Jablons	ški.	(213)	228-827	1 x	daniel.jablons	ski@ch21	n.com						
1000 Wilshire Bou	levard	<	'ladimir Cari	no	(213)	228-827	1 x	vladimir.carir	10@ch2n	1.com	EDI	) Require	d : Yes			
Los Angeles, CA (	90017											Sampled b	y : Matt	Mayry		
PO												Cooler Ter	gu	Samples Rec	eived	Date Printed
Client's COC #: 320	108, 32007, 32006, 3199 Jo	ь. К	MEP Norwal	₹								0°C		26-Jan-20	11	26-Jan-2011
QC Level: S3	= Final Rpt, MBLK, LCS,	MS/MS	D With Sur	rogates				81								
			daraman dari munan munan dar dariya dari dari dari dari dari dari dari dar	and any second						Requeste	ed Tests					
Alpha	Client	ີ ດ	ollection	No. of E	3ottles		P_MOIST	TPH/E_S TP	HIE_W	TPH/P_S	TPH/P_W	voc_s v	0℃_W			
Sample ID	Sample ID	Matrix	Date /	Alpha	Sub	TAT						•			Sampl	le Remarks
CHH11012601-09A	GB-21-40-01-012411	so 0	1/24/11 11:10	ω	0	6	Percent Moisture	Fuel Product		GAS-C	B	C		G	(2) MeC probe weic	DH voas (1) Report on a dry ht basis.
CHH11012601-10A	GB-21-50-01-012411	so o	1/24/11 12:00	ω	0	თ	Percent Moisture	Fuel Product		GAS-C	B	C		Ģ	(2) MeC probe weig	OH voas (1) Report on a dry µht basis.
CHH11012601-11A	GB-21-60-01-012411	SO 0	11/24/11 12:52	ယ	0	o 	Percent Moisture	Fuel Product		GAS-C		C C		G	(2) Me( probe weig	OH voas (1) Report on a dry <sub>3</sub> ht basis.
CHH11012601-12A	QCEB-012411 (Sample Shoe)	Q Q	1/24/11 13:10	<b>б</b>	0	6		TPI	HE(0.10)		TPHE(0.10)	TP	HE(0.10)			:
CHH11012601-13A	GB-21-33.5-04-012411	AQ 0	1/24/11 13:30	12	0	6		TPI	HE(0.10)		TPHE(0.10)	TP	HE(0.10)			
CHH11012601-14A	GB-21-38.5-04-012411	AQ 0	1/24/11 14:30	9	0	6		TPI	HE(0.10)		TPHE(0.10)	TP	HE(0.10)			
CHH11012601-15A	QCEB-012411	AQ 0	1/24/11 14:50	6	0	6		TP	HE(0.10)		TPHE(0.10)	Ţ₽	HE(0.10)			
CHH11012601-16A	GB-21-46.5-04-012411	AQ 0	1/24/11 14:55	7	0	6		TPI	HE(0.10)		TPHE(0.10)	TP	HE(0.10)			
Comments:	Security seals intact. Frozen @ 9:48 changed sample ID o	<u>ice. Ana</u> n sample	lysts: Run tv -12A from (	vo analys 2CEB-01	<u>es in orde</u> 2411 : (s	er to achi oil) to Q	ieve lowe CEB-012	r reporting limi 411 (sample sh	ts for all o <u>oe).</u>	other analy	<u>ytes due to hi</u>	gh TBA val	ues. Per p	hone conversa	tion w/ M	att Mayry 1/26/11
	>	Signat	ure					Print	Name	>			Company		-	Date/Time
Logged in by:	Complay	7	led	Co				zabi	5	PH	(ox	Alpha	Analytic	al, Inc.	1.2(	9°11 1138
NOTE: Sarr The report for the au Matrix Type:AQ(A	ples are discarded 60 day nalysis of the above sample queous) AR(Air) SO(Soi	s after r es is app i) WS(	esults are re plicable only Waste) DV	sported ( / to thos V(Drinki	unless o e sample ng Wate	ther arra es recei r) OT(	angemer ved by tt Other)	nts are made. ne laboratory v Bottle Ty	Hazardo vith this /pe: L-L	ous samp COC. Th iter V-Vo	les will be r e liability of ba S-Soil u	eturned to the laborate the laborate lar O-Orbo	client or o ory is lim o T-Ted	disposed of a ited to the ar lar B-Brass	it client e nount pai P-Plast	xpense. Id for the report. ic OT-Other
	the set of			. (												

	Λ <b>Π Γ</b> _ Λ _	•	1			•	
255 Glen	Alpha Ar dale Avenue, Suit	<b>lalytical</b> e 21 Sparks, 1 a FAY: (775	<b>, Inc.</b> Vevada 89431-577: Vevada 89431-577:	Re	NorkOn port Due	der:CHI Bv:5:00 P	HL11012601 M On: 03-Feb-2011
xort Attention	Phone Numl	Ĕ	Mail Address				
niel Jablonski	(213) 228-823	'l x dar	11iel.jablonski@ch2	m.com			
dimir Carino	(213) 228-82]	'l x vla	dimir.carino@ch21	n.com	EDD Requi	red : Yes	
	a de la desta d			and a second	Samplec	l by : Matt May	ry
					Cooler	[emp Sample	es Received Date Printed
EP Norwalk					0	°C 26-,	Jan-2011 26-Jan-2011
With Surrogates	•						
				<b>Requested Test</b>	0		
Jate Alpha	Sub TAT			ע_איאקו צ_איאקו	v_00_s		
-							
/24/11 2 )0:00	0 6					TPHE(0.10)	2 Reno Trip Blanks: (1)12/14/10 (1) 11/18/10
/25/11 3 \8:00	0 6	Percent Fuel Moisture	Product	GAS-C	BTEX/OXY_C		(2) MeOH voas (1) Geoprobe Report on a dry weight basis.
/25/11 3 )8:15	0	Percent Fuel Moisture	Product	GAS-C	BTEX/OXY_		(2) MeOH voas (1) Geoprobe Report on a dry weight basis.
/25/11 3 18:25	0 6	Percent Fuel Moisture	Product	GAS-C	BTEX/OXY_		(2) MeOH voas (1) Geoprobe Report on a dry weight basis.
/25/11 3 18:50	0 6	Percent Fuel Moisture	Product	GAS-C	BTEX/OXY_C		(2) MeOH voas (1) Geoprobe Report on a dry weight basis.
/25/11 3 )9:10	0	Percent Fuel Moisture	Product	GAS-C	BTEX/OXY_C		(2) MeOH voas (1) Geoprobe Report on a dry weight basis.
125/11 3 19:35	0	Percent Fuel Moisture	Product	GAS-C	BTEX/OXY_C		(2) MeOH voas (1) Geoprobe Report on a dry weight basis.
sts: Run two analy 2A from QCEB-0	ses in order to ach 12411 : (soil) to Q	ieve lower repo CEB-012411 (	orting limits for all sample shoe).	other analytes due	to high TBA v	values. Per phone co	onversation w/ Matt Mayry 1/26/11
re			Print Name	<b>}</b>		Company	Date/Time
Uda		Eliza	ebeth	Adax	Alpi	ha Analytical, Inc.	1-26-11 1138
ults are reported cable only to thos aste) DW(Drink	unless other arr se samples recei ing Water) OT(	angements ar ved by the lat Other)	e made. Hazard ooratory with this Bottle Type: L-L	ous samples will COC. The liabilit iter V-Voa S-S	be returned t y of the labor oil Jar O-O	o client or disposu atory is limited to bo T-Tedlar B-	ed of at client expense. the amount paid for the report. Brass P-Plastic OT-Other
	255 Glen         Tr         Triadimir Carino         Illection No. of         Date Alpha         725/11       3         78:50       3         725/11       3         725/12       3         7	255 Glendale Avenue, Suit         TEL: (775) 355-104         TEL: (775) 355-104         phone Number         Inici Jablonski       (213) 228-827         adimir Carino       (213) 228-827         Date       Alpha       Sub TAT         JWith Surrogates         Date       Alpha       Sub TAT         725/11       3       0       6       6         725/11       3       0       6       725/11       3       0       6       725/11       3       0       6       725/11       3       0       6       725/11       3       0       6       725/11       3       0       6       725/11       6       725/11       3       0       6       725/11       6       725/11       7       6       725/11       7       6       725/11       7	255 Glendale Avenue, Suite 21 Sparks, 1         TTEL: (775) 355-1044       FAX: (775)         port Attention       Phone Number       E         adimir Carino       (213) 228-8271       x       dar         adimir Carino       (213) 228-8271       x       dar         Date       Alpha       Sub       TAT       P_MOIST       Tip         Date       Alpha       Sub       TAT       P_MOIST       Tip         225/11       3       0       6       Percent       Fuel         38:00       6       Percent       Fuel       Moisture       Fuel         39:10       3       0       6       Percent       Fuel         39:50       3       0       6       Percent       Fuel         39:51       3       0       6       Percent       Fuel         39:50       3       0       6       Percent       Fuel         39:51       3       0       6       Percent       Fuel         39:55       0       6       Percent       Fuel         39:55       0       6       Percent       Fuel         39:35       3       0       6       Pe	255 Glendale Avenue, Suite 21. Sparks, Nevada 89431-577, TEL: (775) 355-1044         TEL: (775) 355-1044       FAX: (775) 355-0406         EMail Address         miel Jablonski       (213) 228-8271       x       daniel jablonski@ch2         adimir Carino       (213) 228-8271       x       vladimir.carino@ch2         Intention       No. of Bottles         P.MOIST       TPHE_S         TPHE_M         Date       Alimir Carino@ch2         Intention       No. of Bottles       P.MOIST       TPHE_W         Date       Alimir Carino@ch2         Date       P.MOIST       TPHE_W         Date       Alimir Carino@ch2         Date       P.MOIST       TPHE_W         Date       Alimir Carino@ch2	Solendale Avenue. Suite 21 Sparks, Nevada 8931-5778       Re         TEL: (775) 355-1044       FAX: (775) 355-0406         Phone Number       EMail Address         Intel Jablonskii (213) 228-8271 x       vladimir carino@ch2m.com         alimir Carino       (213) 228-8271 x       vladimir carino@ch2m.com         Intel Jablonski@ch2m.com         alimir Carino@ch2m.com         Phone Number       Requested Test         Intel Jablonski@ch2m.com         Vith Surrogates       Requested Test         Intel Jablonski@ch2m.com         Vith Surrogates       Requested Test         Intel Apha Sub TAT       PMOIST       PHIE_N       TPHE_N       TPHE_N <th< td=""><td>235 Glendule Avenue, Suite 21 Spirks, Novada 89431-5778       WORKUT         port Attention       Phone Number       EMail Address       Report Due         adimir_Canno       (213) 228-8271 x       danid_jablonski@ch2m.com       EDD Requi         adimir_Canno       (213) 228-8271 x       vladimir.canno@ch2m.com       EDD Requi         adimir_Canno       (213) 228-8271 x       vladimir.canno@ch2m.com       EDD Requi         adimir_Canno       (213) 228-8271 x       vladimir.canno@ch2m.com       Sample:         Cooler       Procest       P.moist       Requested Tests       EDD Requi         Date       Alpha       Sub       TAT       P.moist       TPHE_N       TPHE_N       Voc.5         Disto       Alpha       Sub       TAT       P.moist       TPHE_N       TPHE_N       Voc.5         Disto       Alpha       Sub       TAT       P.moist       Free       GaS-C       BEExoxy         255/11       3       0       6       Preem       Fuel Product       GAS-C       BEExoxy         255/11       3       0       6       Preem       Fuel Product       GAS-C       BEExoxy         255/11       3       0       6       Preem       Fuel Product       GAS-C</td><td><math display="block"> \begin{array}{c c c c c c c c c c c c c c c c c c c </math></td></th<>	235 Glendule Avenue, Suite 21 Spirks, Novada 89431-5778       WORKUT         port Attention       Phone Number       EMail Address       Report Due         adimir_Canno       (213) 228-8271 x       danid_jablonski@ch2m.com       EDD Requi         adimir_Canno       (213) 228-8271 x       vladimir.canno@ch2m.com       EDD Requi         adimir_Canno       (213) 228-8271 x       vladimir.canno@ch2m.com       EDD Requi         adimir_Canno       (213) 228-8271 x       vladimir.canno@ch2m.com       Sample:         Cooler       Procest       P.moist       Requested Tests       EDD Requi         Date       Alpha       Sub       TAT       P.moist       TPHE_N       TPHE_N       Voc.5         Disto       Alpha       Sub       TAT       P.moist       TPHE_N       TPHE_N       Voc.5         Disto       Alpha       Sub       TAT       P.moist       Free       GaS-C       BEExoxy         255/11       3       0       6       Preem       Fuel Product       GAS-C       BEExoxy         255/11       3       0       6       Preem       Fuel Product       GAS-C       BEExoxy         255/11       3       0       6       Preem       Fuel Product       GAS-C	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

RECORD CA	<b>USTODY RE</b>	-OF-C	CHAIN			Billing Information :
nc. WorkOrder : CHHL11012	Analytical, Inc. Suite 21 Sparks, Nevada 89431	Alpha /	255 Glen			
	1044 FAX: (7/5) 355-0406	EL: ( / /3) 333-1	11	0		Clippt:
jablonski@ch2m.com	-8271 x daniel.jablonski	(213) 228-	niel Jablonski	Da .		CH2M Hill
ir.carino@ch2m.com EDD Required : Yes	-8271 x vladimir.carino@	(213) 228-	adimir Carino	Vla	evard	1000 Wilshire Bou
Sampled by : Matt Mayry					0017	∠ ist Fi00i Los Angeles, CA 9
Cooler Temp Samples Received						PO:
0 °C 26-Jan-2011			EP Norwalk	Job : KM	18, 32007, 32006, 3199 .	Client's COC #: 320
		<i>.</i> ,	With Surrogates	s, Ms/Mse	= Final Rpt, MBLK, LC	QC Level: S3
Requested Tests					and a second	
S TPH/E_W TPH/P_S TPH/P_W VOC_S VOC_W	P_MOIST TPH/E_S TPH/E	Bottles Sub TAT	llection No. of Date Alpha	Co Matrix	Slient Sample ID	Alpha Sample ID
uet GAS-C BTEX/OXY_ (2) Me	Percent Fuel Product	0	/25/11 3	SO 01	38-20-40-02-012511	CHH11012601-24A
M6 Coopinge		-	J9,40			_
ut GAS-C BTEX/0XY_ (2) MeOH C Report on	Percent Fuel Product Moisture	0	/25/11 3 10:30	SO 01	3B-20-50-01-012511	CHH11012601-25A
ТРНЕ(0.10) ТРНЕ(0.10) ТРНЕ(0.10)	ТРНЕ(С	0	/25/11 6  2:00	AQ 01	QCEB-012511	CHH11012601-26A
uct GAS-C BTEX/OXY_ (2) Me C Geoprobe	Percent Fuel Product Moisture	0	/25/11 3  2:10	SO 01	3B-19-10.5-01-012511	CHH11012601-27A
uct GAS-C BTEX/0XY_ (2) M C Geoprobe	Percent Fuel Product Moisture	0 6	/25/11 3 12:25	SO 01	3B-19-20-01-012511	CHH11012601-28A
uer GAS-C BTEX/OXY_ GOOPTOBE C Geoptobe	Percent Fuel Product Moisture	0	/25/11 3  2:50	SO 01	3B-19-23-01-012511	CHH11012601-29A
GAS-C BTEX/OXY_ (2) MeOH C Report on	Percent Fuel Product Moisture	0	/25/11 3  3:30	SO 01	3B-19-30-01-012511	CHH11012601-30A
ig limits for all other analytes due to high TBA values. Per phone conversation w/ 1	achieve lower reporting limits fo	ses in order to a	sts: Run two analy	n ice. Analy	ecurity seals intact. Froze	Comments:
ppie snoe). Print Name Company	io OCEB-012411 (sample snoe) Print Nai	112411 : (soil) t		on sample - Signatu	v 9:48 changed sample ID	
eth Hd Cox Alpha Analytical, Inc. 121	Elizabeth	X	Ace	th	Cenplos	Logged in by:
nade. Hazardous samples will be returned to client or disposed of at client at one to the amount p	arrangements are made. Ha eceived by the laboratory with	unless other se samples re	ults are reported cable only to tho	ays after res ples is appl	oles are discarded 60 da alysis of the above saml	NOTE: Sam The report for the an
nade. Hazardous samples will be returned to client or disposed of at c atory with this COC. The liability of the laboratory is limited to the amo	arrangements are made. Ha aceived by the laboratory with	unless other se samples re	ults are reported	ays after res ples is appl	oles are discarded 60 da alysis of the above samı	NOTE: Sam The report for the an

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :			CH/	<b>N</b>	- <b>O</b> I		JSTO	DY F	RECC	ORD		2			Page	: 5 of 5	
			N	255 Gler	Alp Idale Av	ha A cnue, Su	nalytio	cal, Inc ks, Nevada	89431-577	×	<b>•</b>	orkO	rder :	CHHI	L11012	601	
Client:			Report Atten	tốn T	EL: (775 Pho	5) 355-10 Dne Nur	144 FAX: (	(775) 355-0- EMail Ac	406 <b>ddress</b>		veb	or pu	c vý . J	TAT T OO'	<b>CII.</b>	00-1°C0-	1107
CH2M Hill			Daniel Jablon	ski	(21)	3) 228-82	271 x	daniel.jabl	onski@ch2	m.com							
1000 Wilshire Bouleva	ard		Vladimir Cari	ino	(21)	3) 228-82	271 x	vladimir.ca	arino@ch21	n.com	E	DD Requ	uired : Yes	62			
Los Angeles, CA 9001	7	г	-						57 Mit Mit. 1			Sample	d by : Ma	tt Mayry			
PO:												Cooler	Temp	Samples	Received	Date P	'rinted
Client's COC #: 32008, 3	32007, 32006, 3199 Jo	ь 	(MEP Norwa	₹								•	°°C	26-Jar	ו-2011	26-Jan	1-2011
QC Level : S3 =	Final Rpt, MBLK, LCS,	MS/M	ISD With Sur	rogates	S												
Alpha Clie	Ä	_	Collection	No. of	Bottles		P MOIST	TPH/E S	TPH/E W	Requeste	ed Tests	VOC S	VOC W				
Sample ID Sam	nple ID	Matrix	Date	Alpha	Sub	TAT						1			Sam	ple Remar	τs
CHH11012601-31A GB-	19-30-02-012511	SO	01/25/11 13:35	ω	0	თ	Percent Moisture	Fuel Product		GAS-C		BTEX/OXY C			(2) M Geoprobe we	eOH voas Report o vight basis.	n a dry
CHH11012601-32A GB-	19-33-01-012511	so	01/25/11 13:50	ω	0	თ	Percent Moisture	Fuel Product		GAS-C		BTEX/OXY C			(2) M Geoprobe we	eOH voas Peport o Pight basis.	(1) in a dry
CHH11012601-33A GB-	19-40-01-012511	So	01/25/11 14:10	ω	0	თ	Percent Moisture	Fuel Product		GAS-C		BTEX/OXY C			(2) M Geoprobe we	eOH voas Report o sight basis.	n a dry
CHH11012601-34A GB-	19-50-01-012511	so	01/25/11 14:40	ω	0	თ	Percent Moisture	Fuel Product		GAS-C		BTEX/OXY C			(2) M Geoprobe we	eOH voas Report o ight basis.	n a dry
CHH11012601-35A QCT	FBA-012511	ÂQ	01/25/11 00:00	N	0	6							<b>TPHE(0.10)</b>		2 Ren (1)12/14	o Trip Blan /10 (1) 11/	ks: /18/10
CHH11012601-36A QCT	rBB-012511	Ą	01/25/11 00:00	N	0	6							TPHE(0.10)		2 Ren	o Trip Blan 11/18/10	ks:
Comments:	rity seals intact. Frozen i 48 changed sample ID on	ce. An	alysts: Run ty e - 12A from (	vo analy )CEB-0	<u>ses in or</u> 12411 :	rder to ac (soil) to t	hieve lower OCEB-0124	reporting li	mits for all shoe).	other analy	tes due to	high TBA	values. Per	phone conv	ersation w/	Matt Mayry	1/26/11
<u>(a) 9:</u>	48 changed sample ID on	ı sampl	e -12A from (	CEB-0	12411 :	(soil) to (	OCEB-0124	H I (sample	<u>shoe).</u>								

Logged in by: aloch Signature W Cox Elizabeth Print Name TIdCox Alpha Analytical, Inc. Company 1-26.1 Date/Time 8511

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

g the sample	Req Real Analyses Req Real Analyses Req Req Real Analyses Req Req Real Analyses Req Req Real Analyses Req Req Real Analyses Req Real Analyses Real Analyses Req Real Analyses Req Real Analyses Real A
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of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

Attn:AddressAddressAddressAddressAddressAddressAddressAddress	Fax	HEPOTIAN	Phone (775) 3 Fax (775) 3 iention / Project
Date Matrix* P.O. # Sampled Below La	Lab ID Number (Use Only)	Sample Description	Nobile:
11/11/1201	NC 87 81	10-10-5-01-01251	
	11- 11- 11- 11- 10- 10- 10- 10- 10- 10-	115010-10-66-	
	x x 2	1-30-01-012511	
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opilo 1	· 24/58-20	- 40-00-012511	
Dom An			
1210 5211	C C C	-20-01-012511 8-012511	:
1225	-2768-19 -21600CEI	- 10-01-01-05-11 - 10-5-01-01-05-11 - 10-5-01-01-01-01-01-05-11	
	- 256-19 - 216 OCEI	- 20 - 01 - 01 - 01 - 01 - 10,5 - 01 - 01 - 01 - 20 - 01 - 01 - 01 - 01	
	1-82 C	- 01-01-01-511 - 01-511-01-511 - 20-01-01-511 - 23-01-01-511 - 23-01-01-511	
ADDITIONAL INSTRU	TRUCTIONS:	- 012511 - 012511 - 10-5-01-012511 - 20-01-012511 - 23-01-012511 - 23-01-012511	
ADDITIONAL INSTRU ADDITIONAL INSTRU	<b>FRUCTIONS:</b>	- 012511 - 012511 - 015-01-012511 - 20-01-012511 - 23-01-012511 - 30-01-012511	vith or
ADDITIONAL INSTRU ADDITIONAL INSTRU I, (field sampler), attest to the grounds for legal action (NAC Relinquished by: (Signatup/Affiliati	TRUCTIONS:	5-11 - 01-01-01-01-01-01-01-01-01-01-01-01-01-0	ature/A
ADDITIONAL INSTRU ADDITIONAL INSTRU I, (field sampler), attest to the grounds for legal action (NAC Relinquished by: (Signatur/Affiliati Relinquished by: (Signatur/Affiliati	TRUCTIONS: TRUCTI	S = 012511 $S = 012511$ $S = 012511$ $S = 01-012511$ $S = 01 - 012511$ $Received by: (Sign of the second devices)$ $S = 01 - 012511$ $Received by: (Sign of the second devices)$ $S = 01 - 012511$ $Received by: (Sign of the second devices)$ $S = 01 - 012511$ $Received by: (Sign of the second devices)$	ature/A Ne/A

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Date:	Apple Augtral topka	Received by (Singature/Affiliation)	W 1550	MUCH CHOM	by: (Signature/Af	Relinquishec
e of collection is	Illy mislabeling the sample location, date or time	are that tempering with or intentions	ty of this sample. I am away mpled By:	the validity and authentici NAC 445.0636 (c) (2)). Sa	npler), attest tc r legal action (	l, (field sar grounds fc
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	Filtered # Containers" B/ 17	Description TAT	Sample	Lab ID Number (Use Only)	Below	
	X/2/2	Mobile:	Phone:	*	te Matrix* P.O.	Time Da
   	Starte Cat		Email:		Zip	City, State,
/	Armed pr 15 Ihanily	Report Attention / Project Manager				Address
	recover 1	Job Name	1 4 m /# dol	M / n Tallmarks	CHERT Name A	Donsultant /
es Required					Zip	ity, State,
		Sparks, Nevada 8943 Phone (775) 355-104				ttn:
W	Suite 21 $AZ - CA X$	255 Glendale Avenue			ame	ompany N



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

#### **ANALYTICAL REPORT**

#### CH2M Hill 1000 Wilshire Boulevard Los Angeles, CA 90017

Daniel Jablonski Attn: Phone: (213) 228-8271 Fax: (714) 424-2135 Date Received : 01/28/11

Job: **KMEP** Norwalk

		Percent Moisture ASTM D2216			
	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>IDW-SOIL-012611</b> Lab ID : CHH11012804-10A Date Sampled 01/26/11 13:30	Percent Moisture	31	0.10 %	02/03/11	02/03/11

Roger Scholl

Kandy Sandner. Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

Dalter Hindman

2/4/11

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

**Report Date** 



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

#### **ANALYTICAL REPORT**

CH2M Hill 1000 Wilshire Boulevard Los Angeles, CA 90017 
 Attn:
 Daniel Jablonski

 Phone:
 (213) 228-8271

 Fax:
 (714) 424-2135

 Date Received : 01/28/11

Job: KMEP Norwalk

#### Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B Volatile Organic Compounds (VOCs) EPA Method SW8260B

				Reporting	Date	Date
		Parameter	Concentration	Limit	Extracted	Analyzed
Client ID :	IDW-SOIL-012611					
Lab ID :	CHH11012804-10A	TPH-E (Fuel Product)	ND	15 mg/Kg-dry	02/01/11	02/03/11
Date Sampled	01/26/11 13:30	Surr: Nonane	123	(62-161) %REC	02/01/11	02/03/11
•		TPH-P (GRO)	ND	1.5 mg/Kg-dry	01/31/11	01/31/11
		Tertiary Butyl Alcohol (TBA)	ND	290 µg/Kg-dry	01/31/11	01/31/11
		Methyl tert-butyl ether (MTBE)	ND	7.3 μg/Kg-dry	01/31/11	01/31/11
		Di-isopropyl Ether (DIPE)	ND	20 μg/Kg-dry	01/31/11	01/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 μg/Kg-dry	01/31/11	01/31/11
		Benzene	ND	7.3 μg/Kg-dry	01/31/11	01/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	20 μg/Kg-dry	01/31/11	01/31/11
		Toluene	ND	7.3 μg/Kg-dry	01/31/11	01/31/11
		Ethylbenzene	ND	7.3 μg/Kg-dry	01/31/11	01/31/11
		m,p-Xylene	ND	7.3 μg/Kg-dry	01/31/11	01/31/11
		o-Xylene	ND	7.3 μg/Kg-dry	01/31/11	01/31/11
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	01/31/11	01/31/11
		Surr: Toluene-d8	104	(70-130) %REC	01/31/11	01/31/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	01/31/11	01/31/11

Gasoline Range Organics (GRO) C4-C13

Concentrations and reporting limits are based on dry weights. ND = Not Detected

Roger Scholl

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.





255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

#### **ANALYTICAL REPORT**

CH2M Hill 1000 Wilshire Boulevard Los Angeles, CA 90017 
 Attn:
 Daniel Jablonski

 Phone:
 (213) 228-8271

 Fax:
 (714) 424-2135

 Date Received : 01/28/11

#### Job: KMEP Norwalk

#### Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B Volatile Organic Compounds (VOCs) EPA Method SW8260B

					Reporting	Date	Date
		Parameter	Concentrat	ion	Limit	Extracted	Analyzed
Client ID :	GB-20-34-04-012611						
Lab ID :	CHH11012804-01A	TPH-E (Fuel Product)	0.22	**	0.10 mg/L	01/31/11	01/31/11
Date Sampled	01/26/11 08:30	Surr: Nonane	101		(49-145) %REC	01/31/11	01/31/11
		TPH-P (GRO)	ND		0.050 mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND		10 μg/L	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND		1.0 μg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	02/02/11	02/02/11
		Benzene	ND		0.50 µg/L	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	02/02/11	02/02/11
		Toluene	ND		0.50 µg/L	02/02/11	02/02/11
		Ethylbenzene	ND		0.50 µg/L	02/02/11	02/02/11
		m,p-Xylene	ND		0.50 µg/L	02/02/11	02/02/11
		o-Xylene	ND		0.50 µg/L	02/02/11	02/02/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	02/02/11	02/02/11
		Surr: Toluene-d8	101		(70-130) %REC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzene	95		(70-130) %REC	02/02/11	02/02/11
Client ID :	GB-20-39-04-012611						
Lab ID :	CHH11012804-02A	TPH-E (Fuel Product)	ND		0.10 mg/L	01/31/11	01/31/11
Date Sampled	01/26/11 09:00	Surr: Nonane	100		(49-145) %REC	01/31/11	01/31/11
		TPH-P (GRO)	ND		0.050 mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	02/02/11	02/02/11
		Benzene	ND		0.50 µg/L	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 μg/L	02/02/11	02/02/11
		Toluene	ND		0.50 µg/L	02/02/11	02/02/11
		Ethylbenzene	ND		0.50 µg/L	02/02/11	02/02/11
		m,p-Xylene	ND		0.50 µg/L	02/02/11	02/02/11
		o-Xylene	ND		0.50 µg/L	02/02/11	02/02/11
		Surr: 1,2-Dichloroethane-d4	101		(70-130) %REC	02/02/11	02/02/11
		Surr: Toluene-d8	98		(70-130) %REC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzene	95		(70-130) %REC	02/02/11	02/02/11



Client ID :	QCEB-012611					
Lab ID :	CHH11012804-03A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/31/11	01/31/11
Date Sampled	01/26/11 09:15	Surr: Nonane	100	(49-145) %REC	01/31/11	01/31/11
-		TPH-P (GRO)	ND	0.050 mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND	$0.50 \ \mu g/L$	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0  µg/L	02/02/11	02/02/11
		Benzene	ND	0.50 ug/L	02/02/11	02/02/11
·		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	02/02/11	02/02/11
		Toluene	ND	0.50  µg/L	02/02/11	02/02/11
		Ethylbenzene	ND	0.50 µg/L	02/02/11	02/02/11
		m,p-Xylene	ND	$0.50 \ \mu g/L$	02/02/11	02/02/11
		o-Xvlene	ND	0.50 µg/L	02/02/11	02/02/11
		Surr: 1.2-Dichloroethane-d4	102	(70-130) %REC	02/02/11	02/02/11
		Surr: Toluene-d8	100	(70-130) %REC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	02/02/11	02/02/11
			,,	(70-150) / MELE	02/02/11	02/02/11
Client ID :	GB-20-45-04-012611					
Lab ID :	CHH11012804-04A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/31/11	01/31/11
Date Sampled	01/26/11 09:50	Surr: Nonane	105	(49-145) %REC	01/31/11	01/31/11
		TPH-P (GRO)	ND	0.050 mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	02/02/11	02/02/11
		Benzene	ND	0.50 µg/L	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	02/02/11	02/02/11
		Toluene	ND	0.50 ug/L	02/02/11	02/02/11
		Ethylbenzene	ND	0.50 µg/L	02/02/11	02/02/11
		m,p-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		o-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		Surr: 1,2-Dichloroethane-d4	106	(70-130) %REC	02/02/11	02/02/11
		Surr: Toluene-d8	100	(70-130) %REC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	02/02/11	02/02/11
<b>CI</b> II				(/0120)/0122	02/02/11	02/02/11
Client ID :	GB-20-45-05-012611					
Lab ID :	CHH11012804-05A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/31/11	01/31/11
Date Sampled	01/26/11 09:55	Surr: Nonane	102	(49-145) %REC	01/31/11	01/31/11
		TPH-P (GRO)	ND	0.050 mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 μg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	02/02/11	02/02/11
		Benzene	ND	0.50 µg/L	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAME)	ND	$1.0  \mu g/L$	02/02/11	02/02/11
		Toluene	ND	0.50 µg/L	02/02/11	02/02/11
		Ethylbenzene	ND	0.50 µg/L	02/02/11	02/02/11
		m,p-Xylene	ND	$0.50 \ \mu g/L$	02/02/11	02/02/11
		o-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		Surr: 1,2-Dichloroethane-d4	106	(70-130) %REC	02/02/11	02/02/11
		Surr: Toluene-d8	102	(70-130) %REC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	02/02/11	02/02/11
				(	· · · · · · · · · · · · · ·	02/02/11



Client ID :	GB-19-34-04-012611					
Lab ID :	CHH11012804-06A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/31/11	01/31/11
Date Sampled	01/26/11 11:30	Surr: Nonane	99	(49-145) %REC	01/31/11	01/31/11
		TPH-P (GRO)	ND	0.050 mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	02/02/11	02/02/11
		Benzene	ND	0.50 µg/L	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	02/02/11	02/02/11
		Toluene	ND	0.50 µg/L	02/02/11	02/02/11
		Ethylbenzene	ND	0.50 µg/L	02/02/11	02/02/11
		m.p-Xvlene	ND	0.50 µg/L	02/02/11	02/02/11
		o-Xvlene	ND	0.50 µg/L	02/02/11	02/02/11
		Surr: 1 2-Dichloroethane-d4	104	(70, 130) % PEC	02/02/11	02/02/11
		Surr: Toluene-d8	00	(70-130) %REC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	02/02/11	02/02/11
		Sun: 4-Diomonuoroochizene	93	(70-130) %REC	02/02/11	02/02/11
Client ID :	GB-19-41-04-012611					
Lab ID :	CHH11012804-07A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/31/11	01/31/11
Date Sampled	01/26/11 11:55	Surr: Nonane	96	(49-145) %REC	01/31/11	01/31/11
•		TPH-P (GRO)	ND	0.050  mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	10 µg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	10 µg/L	02/02/11	02/02/11
		Benzene	ND	0.50 µg/L	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/I	02/02/11	02/02/11
		Toluene	ND	0.50 µg/I	02/02/11	02/02/11
		Ethylbenzene	ND	0.50 µg/L	02/02/11	02/02/11
		m p-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		o-Xvlene	ND	0.50 µg/L	02/02/11	02/02/11
		Surr: 1.2-Dichloroethane d4	107	(70, 120) % DEC	02/02/11	02/02/11
		Surr: Toluene-de	107	(70-130) %REC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzone	98	(70-130) %REC	02/02/11	02/02/11
		Sun: 4-Biomonuorobenzene	93	(70-130) %REC	02/02/11	02/02/11
Client ID :	GB-19-46-04-012611					
Lab ID :	CHH11012804-08A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/31/11	02/01/11
Date Sampled	01/26/11 12:20	Surr: Nonane	99	(49-145) %REC	01/31/11	02/01/11
		TPH-P (GRO)	ND	0.050 mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBF)	ND	10 µg/I	02/02/11	02/02/11
		Benzene	ND	0.50 µg/L	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAMF)	ND	1.0 µg/L	02/02/11	02/02/11
		Toluene	ND	0.50 µg/L	02/02/11	02/02/11
		Ethylbenzene	ND	0.50 µg/L	02/02/11	02/02/11
		m.p-Xvlene	ND	0.50 μg/L	02/02/11	02/02/11
		o-Xvlene	ND	0.50 μg/L	02/02/11	02/02/11
		Surr: 1.2-Dichloroethane_d4	110	0.30 μg/L (70, 120) 9/ ΡΕC	02/02/11	02/02/11
		Surr: Toluene-d8	00	(70-130) %KEC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzene	77 04	(70-130) %REC (70-120) %REC	02/02/11	02/02/11
		Sant a DiomondoloucilZene	74	(70-130) %KEC	02/02/11	02/02/11



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Client ID :	GB-19-46-06-012611					
Lab ID :	CHH11012804-09A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/31/11	02/01/11
Date Sampled	01/26/11 12:25	Surr: Nonane	100	(49-145) %REC	01/31/11	02/01/11
		TPH-P (GRO)	ND	0.050 mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	$1.0 \ \mu g/L$	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	02/02/11	02/02/11
		Benzene	ND	0.50 µg/L	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAME)	ND	$1.0 \ \mu g/L$	02/02/11	02/02/11
		Toluene	ND	0.50 µg/L	02/02/11	02/02/11
		Ethylbenzene	ND	0.50 µg/L	02/02/11	02/02/11
		m,p-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		o-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	02/02/11	02/02/11
		Surr: Toluene-d8	102	(70-130) %REC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	02/02/11	02/02/11
Client ID :	QCTB-012611					
Lab ID :	CHH11012804-11A	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	02/02/11	02/02/11
Date Sampled	01/26/11 00:00	Methyl tert-butyl ether (MTBE)	ND	0.50 μg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	02/02/11	02/02/11
		Benzene	ND	0.50 µg/L	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	02/02/11	02/02/11
		Toluene	ND	0.50 µg/L	02/02/11	02/02/11
		Ethylbenzene	ND	0.50 µg/L	02/02/11	02/02/11
		m,p-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		o-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		Surr: 1,2-Dichloroethane-d4	84	(70-130) %REC	02/02/11	02/02/11
		Surr: Toluene-d8	105	(70-130) %REC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	02/02/11	02/02/11

\*\*Note: Reported TPH-E (Fuel Product) may contain undifferentiated diesel range hydrocarbons.

All VOAs that were provided for sample 01A had an air bubble.

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Roger Scholl

Kandy Santur

Dalter Aridman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical. Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

2/4/11

**Report Date** 



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## **VOC Sample Preservation Report**

Work Order: CHH11012804	Job: KMEP Norwalk			
Alpha's Sample ID	Client's Sample ID	Matrix	pН	
11012804-01A	GB-20-34-04-012611	Aqueous	5	
11012804-02A	GB-20-39-04-012611	Aqueous	5	
11012804-03A	QCEB-012611	Aqueous	2	
11012804-04A	GB-20-45-04-012611	Aqueous	4	
11012804-05A	GB-20-45-05-012611	Aqueous	2	
11012804-06A	GB-19-34-04-012611	Aqueous	2	
11012804-07A	GB-19-41-04-012611	Aqueous	5	
11012804-08A	GB-19-46-04-012611	Aqueous	3	
11012804-09A	GB-19-46-06-012611	Aqueous	5	
11012804-11A	QCTB-012611	Aqueous	2	



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<b>Date:</b> 04-Feb-11		Q	C S	ummar	y Repor	t				<b>Work Orde</b> 11012804	ər: 1
Method Blank File ID: 2A02031109. Sample ID: MBLI	D <-25907	Units : ma/Ka	Type N	ABLK To Ba Run ID: FI	est Code: E atch ID: 259 D 2 11020	PA Met 07 1A	hod SW8(	015B/C Ex Analy Prep I	t sis Date: Date:	02/03/2011 13:03 02/01/2011 12:50	_
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-E (Fuel Product) Surr: Nonane		ND 6.47	5	5 6		108	62	161			
Laboratory Contr File ID: 2A02031108.	ol Spike D	]	ype L	.CS To Ba	est Code: El atch ID: 259	PA Met 07	hod SW80	)15B/C Ext Analy:	t sis Date:	02/03/2011 12:38	
Sample ID: LCS-	25907	Units : mg/Kg	I	Run ID: FI	D_2_11020 <sup>-</sup>	1A		Prep l	Date:	02/01/2011 12:50	
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		112 6.92	5	5 100 6		112 115	70 62	130 161			
Sample Matrix Sp File ID: 2A02031110.	ike D	٦	ype N	AS TO Ba	est Code: El atch ID: 259	PA Meti 07	hod SW80	)15B/C Ext Analys	t sis Date:	02/03/2011 13:28	
Sample ID: 11012	2825-01AMS	Units : mg/Kg		Run ID: FI	D_2_11020 <sup>.</sup>	1 <b>A</b>		Prep [	Date:	02/01/2011 12:50	
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef∖	/al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		195 8.69	5	5 100 6	69.21	126 145	50 62	149 161			
Sample Matrix Sp File ID: 2A02031111.	ike Duplicate D	T	ype N	<b>ISD</b> Te Ba	est Code: El atch ID: 259	PA Meti 07	hod SW80	15B/C Ext Analys	: sis Date:	02/03/2011 13:53	
Sample ID: 11012	2825-01AMSD	Units : mg/Kg		Run ID: FI	D 2 11020	1A		Prep I	Date:	02/01/2011 12:50	
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef∖	al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		162 7.24	5	i 100 6	69.21	92 121	50 62	149 161	194.8	18.6(46)	

#### Comments:



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<b>Date:</b> 04-Feb-11		(	QC S	ummar	y Repor	t				<b>Work Orde</b> 11012804	er: 1
Method Blan File ID: 7A0131 Sample ID: Analyte	k 1106.D MBLK-25899	Units : <b>mg/L</b> Result	Type I	MBLK To Ba Run ID: FI SpkVal	est Code: E atch ID: <b>258</b> <b>D_7_11013</b> SpkRefVal	PA Met 99 1A %REC	hod SW8	015B/C Ext Analys Prep D UCL(ME)	sis Date: Date: RPDRef\	01/31/2011 12:41 01/31/2011 10:08 /al %RPD(Limit)	Qual
TPH-E (Fuel Pr Surr: Nonane	oduct)	ND 0.153	0.	1 0.15		102	49	145			
Laboratory ( File ID: 7A0131 Sample ID: Analyte	Control Spike 1107.D LCS-25899	Units : <b>mg/L</b> Result	Type I	L <b>CS</b> To Ba Run ID: <b>FI</b> SpkVal	est Code: El atch ID: 258 D_7_11013 SpkRefVal	PA Met 99 1A %REC	hod SW8	)15B/C Ext Analys Prep D UCL(ME) I	is Date: Date: RPDRef\	01/31/2011 13:08 01/31/2011 10:08 /al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		2.3 0.156	0.0	5 2.5 0.15		92 104	70 49	130 145			
Sample Matr File ID: 7A0131 Sample ID: Analyte	ix Spike 1109.D 11013101-01AMS	Units : <b>mg/L</b> Result	Type I	MS To Ba Run ID: FI SokVal	est Code: El atch ID: 258 D_7_11013 SokRefVal	PA Met 99 1A %REC	hod SW80	0 <b>15B/C Ext</b> Analys Prep D	is Date: Date: RPDRef\	01/31/2011 14:01 01/31/2011 10:08 /al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		2.23 0.161	0.0	5 2.5 0.15	0	89 107	53 49	150 145			
Sample Matr File ID: 7A0131 Sample ID: Analyte	ix Spike Duplicate 1110.D 11013101-01AMSD	Units : <b>mg/L</b> Result	Type I	MSD Te Ba Run ID: FI SpkVal	est Code: El atch ID: 258 D_7_11013 SpkRefVal	PA Met 99 1A %REC	hod SW80	0 <b>15B/C Ext</b> Analys Prep D UCL(ME) F	is Date: ∂ate: RPDRef∨	01/31/2011 14:27 01/31/2011 10:08 /al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		2.48 0.146	0.0	5 2.5 0.15	0	99 97	53 49	150 145	2.226	10.9(47)	

#### **Comments:**



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<b>Date:</b> 04-Feb-11		QC S	Sui	nmar	y Repor	t				Work Orde 11012804	er:
Method Blank File ID: 11013106.D		Туре	MB	LK Te Ba	est Code: E atch ID: <b>MS</b>	PA Met 08S589	hod SW8( 2B	015B/C Analys	is Date:	01/31/2011 10:59	
Sample ID: MBLK MS08S5892B	Units : <b>mg/l</b>	Kg	R	un ID: M	SD_08_110	131A		Prep D	ate:	01/31/2011 10:59	
Analyte	Result	PQL		SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) F	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	ND 0.203 0.209 0.199		1	0.2 0.2 0.2		101 105 99.5	70 70 70	130 130 130			
Laboratory Control Spike		Туре	LC	S Te	est Code: E	PA Met	hod SW80	)15B/C			
File ID: 11013110.D				Ba	atch ID: MS	08S589	2B	Analys	is Date:	01/31/2011 12:37	
Sample ID: GLCS MS08S5892B	Units : mg/I	Kg	R	un ID: M	SD_08_110	131A		Prep D	ate:	01/31/2011 12:37	
Analyte	Result	PQL		SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) F	RPDRef∖	/al %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	17.4 0.399 0.381 0.425		2	16 0.4 0.4 0.4		109 99.8 95 106	63 70 70 70	148 130 130 130			
Sample Matrix Spike		Туре	MS	Te	est Code: E	PA Met	hod SW80	)15B/C			
File ID: 11013111.D				Ba	atch ID: MS	085589	2B	Analys	is Date:	01/31/2011 13:01	
Sample ID: 11012801-04AGS	Units : mg/i	٨g	R	un ID: M	SD 08 110	131A		Prep D	ate:	01/31/2011 13:01	
Analyte	Result	PQL		SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) F	RPDRef∖	/al %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	17.7 0.397 0.392 0.442		2	16 0.4 0.4 0.4	0	111 99 98 110	35 70 70 70	166 130 130 130			
Sample Matrix Spike Duplicate		Туре	MS	D Te	est Code: El	PA Met	hod SW80	15B/C			
File ID: 11013112.D				Ba	atch ID: MS	085589	2B	Analysi	is Date:	01/31/2011 13:26	
Sample ID: 11012801-04AGSD	Units : mg/k	٢g	R	un ID: MS	SD_08_110 <sup>.</sup>	131A		Prep D	ate:	01/31/2011 13:26	
Analyte	Result	PQL		SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) F	RPDRef∿	/al %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	17 0.351 0.398 0.43		2	16 0.4 0.4 0.4	0	106 88 99.6 107	35 70 70 70	166 130 130 130	17.72	4.3(33)	

#### Comments:



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<b>Date:</b> 04-Feb-11	(	QC S	ummar	y Repor	t			<b>Work Orde</b> 11012804	er: 1
Method Blank File ID: 11020204.D	<u></u>	Туре М	<b>IBLK</b> Te Ba	est Code: El atch ID: MS	PA Met 12W020	hod SW8( )2B	015B/C Analysis Date:	02/02/2011 09:53	
Sample ID: MBLK MS12W0202B	Units : mg/L		Run ID: M	SD_12_110	202A		Prep Date:	02/02/2011 09:53	<u> </u>
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	ND 0.00968 0.0105 0.00916	0.05	0.01 0.01 0.01		97 105 92	70 70 70	130 130 130		
Laboratory Control Spike		Type L	.CS Te	est Code: El	PA Met	hod SW80	)15B/C		
File ID: 11020202.D			Ba	atch ID: MS	12W020	)2B	Analysis Date:	02/02/2011 09:07	
Sample ID: GLCS MS12W0202B	Units : mg/L		Run ID: M	SD_12_110	202A		Prep Date:	02/02/2011 09:07	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	0.429 0.00959 0.00997 0.00958	0.05	0.4 0.01 0.01 0.01		107 96 99.7 96	70 70 70 70	130 130 130 130		
Sample Matrix Spike		Type N	IS Te	est Code: El	PA Met	hod SW80	015B/C		
File ID: 11020220.D			Ba	atch ID: MS	12W020	)2B	Analysis Date:	02/02/2011 16:06	
Sample ID: 11012804-01AGS	Units : mg/L		Run ID: M	SD_12_110	202A		Prep Date:	02/02/2011 16:06	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	2.08 0.0457 0.0507 0.0505	0.25	2 0.05 0.05 0.05	0	104 91 101 101	51 70 70 70	144 130 130 130		
Sample Matrix Spike Duplicate		Type N	ISD Te	est Code: El	PA Met	hod SW80	)15B/C		
File ID: 11020221.D			Ba	atch ID: MS <sup>4</sup>	12W020	)2B	Analysis Date:	02/02/2011 16:29	
Sample ID: 11012804-01AGSD	Units : mg/L		Run ID: MS	SD_12_110	202A		Prep Date:	02/02/2011 16:29	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	2.02 0.0444 0.0509 0.0483	0.25	2 0.05 0.05 0.05	0	101 89 102 97	51 70 70 70	144 2.079 130 130 130	9 2.7(29)	

#### Comments:



<b>Date:</b> 04-Feb-11	(	QC S	ummar	y Repo	rt			Work Ord 11012804	er: 4
Method Blank File ID: 11013106.D		Type N	ABLK T	est Code: E	PA Met 08S589	thod SW8	260B Analysis Date:	01/31/2011 10:59	
Sample ID: MBLK MS08S5892A	Units : µg/K	a	Run ID: M	SD 08 110	131A		Prep Date:	01/31/2011 10:59	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	500	)						<u> </u>
Methyl tert-butyl ether (MTBE)	ND	500	5						
Di-isopropyl Ether (DIPE)	ND	20	)						
Ethyl Tertiary Butyl Ether (ETBE)	ND	20	)						
Benzene	ND	5	5						
Tertiary Amyl Methyl Ether (TAME)	ND	20	)						
Toluene	ND	5	5						
Ethylbenzene	ND	5	5						
m,p-Xylene	ND	5	5						
Surr: 1.2-Dichleroothano.d4	ND	5	) 		404		100		
Surr: Toluene-d8	203		200		101	70	130		
Surr: 4-Bromofluorobenzene	209		200		105	70	130		
Laboratory Control Spiles	139	Turne	200		99.0	70	130		
Ele ID: 11013107 D		туре L	.05	est Code: E	PA Met	nod SW8	260B	04/04/0044 44-04	
	linite and the		B	atch ID: MS	082289	2A	Analysis Date:	01/31/2011 11:24	
		9	Run ID: M	SD_08_110	131A		Prep Date:	01/31/2011 11:24	
	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	2670	1000	4000		67	14	156		
Methyl tert-butyl ether (MIBE)	425	10	400		106	61	147		
Ethyl Tortion, Butyl Ethor (ETRE)	494	20	400		124	68	150		
	434	20	400		109	66	150		
Tertiary Amyl Methyl Ether (TAME)	473	10	400		118	70	138		
	410	20	400		102	70	148		
Ethylbenzene	410	10	400		104	70	137		
m.p-Xylene	396	10	400		90	70	145		
o-Xylene	390	10	400		98	70	145		
Surr: 1,2-Dichloroethane-d4	433		400		108	70	130		
Surr: Toluene-d8	367		400		92	70	130		
Surr: 4-Bromofluorobenzene	462		400		115	70	130		
Sample Matrix Spike		Type N	IS T	est Code: E	PA Met	hod SW8	260B		
File ID: 11013108.D			В	atch ID: MS	08\$589	2A	Analysis Date:	01/31/2011 11:48	
Sample ID: 11012801-04AMS	Units : µg/Kg	1	Run ID: M	SD 08 110	131A		Prep Date:	01/31/2011 11:48	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	/al %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	1120	1000	4000	0	28	10	171		
Methyl tert-butyl ether (MTBE)	331	10	400	Ō	83	42	157		
Di-isopropyl Ether (DIPE)	428	20	400	0	107	49	157		
Ethyl Tertiary Butyl Ether (ETBE)	371	20	400	0	93	48	158		
Benzene	430	10	400	0	107	53	150		
Tertiary Amyl Methyl Ether (TAME)	363	20	400	0	91	45	152		
roluene Ethylhonzono	407	10	400	0	102	51	149		
m p-Yvlene	425	10	400	0	106	54	150		
o-Xvlene	397	10	400	16.37	95	50	161		
Surr: 1 2-Dichloroethane-d4	319	10	400	0	95	35	1//		
Surr: Toluene-d8	300		400		88 02	70	130		
Surr: 4-Bromofluorobenzene	464		400 400		90 116	70	130		
	707		-00		110	10	100		



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<b>Date:</b> ()4-Feb-11		QC Su	ımmar	y Repor	t				<b>Work Ord</b> 11012804	er: 4
Sample Matrix Spike Duplicate		Type MS	SD T	est Code: El	PA Met	hod SW82	260B			
File ID: 11013109.D			B	atch ID: MS(	08S589	2A	Analy	sis Date: 0	1/31/2011 12:13	
Sample ID: 11012801-04AMSD	Units : µg/h	<b>(g</b> F	Run ID: M	SD_08_110 <sup>-</sup>	131A		Prep I	Date: 0	1/31/2011 12:13	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVa	l %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	2820	1000	4000	0	71	10	171	1120	86.4(40)	R5
Methyl tert-butyl ether (MTBE)	404	10	400	0	101	42	157	330.5	20.1(32)	
Di-isopropyl Ether (DIPE)	469	20	400	Ő	117	49	157	428	9.1(31)	
Ethyl Tertiary Butyl Ether (ETBE)	420	20	400	0	105	48	158	370.5	12.6(31)	
Benzene	446	10	400	0	111	53	150	429.6	3.7(26)	
Tertiary Amyl Methyl Ether (TAME)	381	20	400	0	95	45	152	362.7	5.0(30)	
Toluene	396	10	400	0	99	51	149	407.2	2.7(26)	
Ethylbenzene	410	10	400	0	102	54	150	425	3.7(29)	
m,p-Xylene	383	10	400	16.37	92	50	161	397.1	3.6(38)	
o-Xylene	370	10	400	0	93	35	177	378.9	2.3(40)	
Surr: 1,2-Dichloroethane-d4	428		400		107	70	130			
Surr: Toluene-d8	369		400		92	70	130			
Surr: 4-Bromofluorobenzene	457		400		114	70	130			

#### **Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.



<b>Date:</b> 04-Feb-11	(	QC S	ummar	y Repoi	t			<b>Work Ord</b> 11012804	er: 4
Method Blank File ID: 11020204.D		Туре N	<b>IBLK</b> T B	est Code: E atch ID: MS	PA Mei 12W02	thod SW8	260B Analysis Date:	02/02/2011 09:53	
Sample ID: MBLK MS12W0202A	Units : µg/L		Run ID: M	SD 12 110	202A		Prep Date:	02/02/2011 09:53	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	10	)	•				· · · · · · · · · · · · · · · · · · ·	
Methyl tert-butyl ether (MTBE)	ND	0.5	, ,						
Di-isopropyl Ether (DIPE)	ND	1							
Ethyl Tertiary Butyl Ether (ETBE)	ND	1							
Benzene	ND	0.5	<b>i</b>						
Tertiary Amyl Methyl Ether (TAME)	ND	1							
l oluene	ND	0.5							
Euryidenzene m.n.Xvlene	ND	0.5	)						
o-Xviene	ND	0.5	)						
Surr: 1 2-Dichloroethane-d4	0.68	0.5	10		07	70	120		
Surr: Toluene-d8	5.00 10.5		10		105	70	130		
Surr: 4-Bromofluorobenzene	9.16		10		92	70	130		
Laboratory Control Spike		Type L	.CS T	est Code: E	PA Met	thod SW8	260B	<u></u>	
File ID: 11020203.D			B	atch ID: MS	12W02	02A	Analysis Date:	02/02/2011 09:30	
Sample ID: LCS MS12W0202A	Units : µg/L		Run ID: M	SD_12_110	202A		Prep Date:	02/02/2011 09:30	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	√al %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	79.7	10	100		80	44	156	·····	
Methyl tert-butyl ether (MTBE)	8.9	0.5	10		89	65	140		
Di-isopropyl Ether (DIPE)	7.75	1	10		78	70	130		
Ethyl Tertiary Butyl Ether (ETBE)	8.13	1	10		81	65	139		
Benzene	9.63	0.5	10		96	70	130		
Lertiary Amyl Methyl Ether (TAME)	8.86	1	10		89	68	134		
I oluene Ethylheazene	9.37	0.5	10		94	80	120		
Ethylbenzene m.n. Ywlene	10	0.5	10		100	80	120		
o-Xylene	10.1	0.5	10		101	70	130		
Surr: 1.2-Dichloroethane-d4	10.5	0.5	10		105	70	130		
Surr: Toluene-d8	9.10		10		92	70	130		
Surr: 4-Bromofluorobenzene	9.59		10		99 96	70	130		
Sample Matrix Spike		Type M		est Code: El		hod SW8	260B		
File ID: 11020218.D		Type II	B:	atch ID: MS:	12W/02/	1100 3440/ 1128	Analysis Date:	02/02/2011 15.20	
Sample ID: 11012804-01AMS	Units · ua/I		Run ID: M	SD 12 110	2028		Pron Date:	02/02/2011 15:20	
Analyte	Result	POL	SokVai	SokRefVal	%RFC	CL(ME)	UCL(MF) RPDRef	/al %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	371	25	500	0	74		157		
Methyl tert-butyl ether (MTBE)	41	13	50	0	82	41	150		
Di-isopropyl Ether (DIPE)	34.4	2.5	50	0	69	59	139		
Ethyl Tertiary Butyl Ether (ETBE)	36.9	2.5	50	õ	74	59	182		
Benzene	41.1	1.3	50	0	82	59	138		
Tertiary Amyl Methyl Ether (TAME)	40	2.5	50	0	80	63	135		
Toluene	39.5	1.3	50	0	79	68	130		
Ethylbenzene	42.1	1.3	50	0	84	68	130		
m,p-xylene	43.2	1.3	50	0	86	68	131		
U-Aylene Surr: 1.2 Dichloroothana d4	44.2	1.3	50	0	88	70	130		
Surr: Toluene_d8	48		50		96	70	130		
Surr: 4-Bromofluorobenzene	49.5		50		99	70	130		
	40.7		50		91	70	150		



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<b>Date:</b> 04-Feb-11	(	QC Su	ımmar	y Repor	t				<b>Work Ord</b> 11012804	er: 4
Sample Matrix Spike Duplicate		Туре М	SD T	est Code: El	PA Met	hod SW82	260B			
File ID: <b>11020219.D</b>			Ba	atch ID: MS1	2W02	02A	Analy	sis Date: 0	2/02/2011 15:43	
Sample ID: 11012804-01AMSD	Units : µg/L	F	Run ID: M	SD_12_1102	202A		Prep	Date: 0	2/02/2011 15:43	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVa	I %RPD(Limit)	Qua
Tertiary Butyl Alcohol (TBA)	360	25	500	0	72	41	157	370.7	2.9(30)	
Methyl tert-butyl ether (MTBE)	41.3	1.3	50	0	83	47	150	41.04	0.5(40)	
Di-isopropyl Ether (DIPE)	35.6	2.5	50	0	71	59	139	34.38	3.5(20)	
Ethyl Tertiary Butyl Ether (ETBE)	37.7	2.5	50	Ō	75	59	182	36.91	2.1(40)	
Benzene	43.7	1.3	50	0	87	59	138	41.05	6.2(21)	
Tertiary Amyl Methyl Ether (TAME)	41.6	2.5	50	Ō	83	63	135	39.97	4.0(40)	
Toluene	43	1.3	50	0	86	68	130	39.5	8.4(20)	
Ethylbenzene	46.2	1.3	50	0	92	68	130	42.05	9.4(20)	
m,p-Xylene	46.9	1.3	50	Ō	94	68	131	43.16	8.4(20)	
o-Xylene	48.1	1.3	50	õ	96	70	130	44.21	8.5(20)	
Surr: 1,2-Dichloroethane-d4	45.6		50	-	91	70	130		0.0(20)	
Surr: Toluene-d8	50.1		50		100	70	130			
Surr: 4-Bromofluorobenzene	48.6		50		97	70	130			

#### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Billing Information :			CH	AIN	-OF	-CU	ISTO	DYI	RECO	ORD		Ω			1 of 2
				255 Gle 1	Alpl ndale Ave TEL: (775)	<b>na Ai</b> nue, Suit 355-104	nalyti e 21 Spar 4 FAX: 0	<b>cal, In</b> ks, Nevada (775) 355-(	<b>C.</b> 189431-577 1406	8	W	orkOr ort Due	der : By : 5	CHHL110128 :00 PM On : 07	04 '-Feb-2011
Client:			Report Atte	ntion	Pho	ne Numi	ber	EMail A	ddress						
CH2M Hill			Daniel Jablo	nski	(213	) 228-82	71 x	daniel.jab	lonski@ch2	2m.com					
1000 Wilshire Boulevar	α.		Vladimir Ca	rino	(213	) 228-82	71 x	vladimir.c	arino@ch2	m.com	П	DD Requi	red : Yes	<b>~</b> 2	
Los Angeles, CA 90017												Sampled	by : Ma	tt Mayry	
PO :												Cooler T	emp	Samples Received	Date Printed
Client's COC #: 32000		Job :	KMEP Norw	alk								2 °	ň	28-Jan-2011	04-Feb-2011
QC Level : S3 = F	inal Rpt, MBLK, LC	S, MS/	MSD With Su	urrogate	ŭ					Request	ed Tests			-	
Alpha Clien Sample ID Sam	it ple ID	Matr	Collection ix Date	No. o Alpha	f Bottles Sub	Ā	P_MOIST	TPH/E_S	TPH/E_W	TPH/P_S	TPH/P_W	voc_s	voc_w	Sample	Remarks
CHH11012804-01A GB-2	0-34-04-012611	Ą	01/26/11 08:30	16	0	ŋ			TPHE(0.10)		TPHE(0.10)		TPHE(0.10)	All voas rece bubble	⊮ved contain air s > 6mm.
CHH11012804-02A GB-2	0-39-04-012611	AQ	01/26/11 09:00	œ	0	თ			TPHE(0.10)		TPHE(0.10)		TPHE(0.10)		
CHH11012804-03A QCEI	3-012611	AQ	01/26/11 09:15	ი	0	6			TPHE(0.10)		TPHE(0.10)		<b>TPHE(0.10)</b>		
CHH11012804-04A GB-2	0-45-04-012611	Ą	01/26/11 09:50	7	0	6			TPHE(0.10)		TPHE(0.10)		TPHE(0.10)		
CHH11012804-05A GB-2	0-45-05-012611	AQ	01/26/11 09:55	7	0	6			TPHE(0.10)		TPHE(0.10)		TPHE(0.10)		
CHH11012804-06A GB-1	9-34-04-012611	Ą	01/26/11 11:30	8	0	6			TPHE(0.10)		TPHE(0.10)		TPHE(0.10)		
CHH11012804-07A GB-1	9-41-04-012611	Ą	01/26/11 11:55	8	0	თ			TPHE(0.10)		<b>TPHE(0.10)</b>		TPHE(0.10)		
CHH11012804-08A GB-1	9-46-04-012611	Ą	01/26/11 12:20	6	0	ð			TPHE(0.10)		TPHE(0.10)		TPHE(0.10)		

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Comments:** 

ID for sample -01A due to login error. EA :

Security seals intact. Frozen ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 2/4/11 @ 14:21: Corrected sample

Logged in by:

maarth

dron

T

lizabeth

TIDOX

Alpha Analytical, Inc.

2.4-11 1423

Date/Time

Company

**Print Name** 

Signature

CHH11012804-10A IDW-SOIL-012611

So

01/26/11 13:30

ω

0

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Percent Moisture

Fuel Product

GAS-C

BTEX/OXY\_ C

Report on a dry weight basis. (3) 4 oz. jars

CHH11012804-09A

GB-19-46-06-012611

ð

01/26/11 12:25

ω

0

ი

TPHE(0.10)

TPHE(0.10)

TPHE(0.10)

MS/MSD

**Billing Information :** 

Client:

CH2M Hill

# CHAIN-OF-CUSTODY RECORD

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

Alpha Analytical, Inc.



# WorkOrder: CHHL11012804 Report Due By: 5:00 PM On: 07-Feb-2011

Sampled by : Matt Mayry			
EDD Required : Yes	vladimir.carino@ch2m.com	(213) 228-8271 x	Vladimir Carino
	daniel.jablonski@ch2m.com	(213) 228-8271 x	Daniel Jablonski
	EMail Address	Phone Number	eport Attention
	: (//) 333-0400	IEL: (77) 333-1044 FAA	

Cooler Temp

Samples Received 28-Jan-2011

Date Printed 04-Feb-2011

2°C

Client's COC # :	PO :
32000	

Los Angeles, CA 90017

21st Floor

1000 Wilshire Boulevard

Job : KMEP Norwalk

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

						Request	ed Tests			
Alpha	Client	Collection No. of Bottles	P_MOIST	TPH/E_S	IPH/E_W	TPH/P_S	TPH/P_W	voc_s	VOC_W	
Sample ID	Sample ID	Matrix Date Alpha Sub T/	4							Sample Remarks
CHH11012804-11A	QCTB-012611	AQ 01/26/11 2 0 6						A. ( ) HERE A. (	TPHE(0.10)	2 Reno Trip Blanks (1)
		00:00								11/22/10 (1) 12/21/10

**Comments:** Logged in by: Security seals intact. Frozen ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 2/4/11 @ 14:21: Corrected sample ID for sample -01A due to login error. EA : abuilt Signature (d Cox Elizabeth HdCax Print Name Alpha Analytical, Inc. Company 2:4-11 Date/Time 1423

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other
Billing Information :

CHAIN-OF-CUSTODY RECORD

Page: 1 of 2

# Los Angeles, CA 90017 1000 Wilshire Boulevard = Final Rpt, MBLK, LCS, MS/MSD With Surrogates Job : KMEP Norwalk **Report Attention** Vladimir Carino Daniel Jablonski 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406 Alpha Analytical, Inc. Phone Number (213) 228-8271 x (213) 228-8271 x daniel.jablonski@ch2m.com vladimir.carino@ch2m.com EMail Address Report Due By: 5:00 PM On: 07-Feb-2011 WorkOrder: CHHL11012804 EDD Required : Yes Sampled by : Matt Mayry C A Cooler Temp 2°C Samples Received 28-Jan-2011 28-Jan-2011 Date Printed

Р0 .:

Client's COC #: 32000

QC Level : S3

Client:

CH2M Hill

21st Floor

Report on a dry weight basis. (3) 4 oz. jars		BTEX/0X	GAS-C		Fuel Product	Percent Moisture	ດ	0	ω	01/26/11 13:30	so	IDW-SOIL-012611	CHH11012804-10A
MS/MSD	TPHE(0.10)	(PPHE(0.10)		TPHE(0.10)			െ	0	ω	01/26/11 12:25	ð	GB-19-46-06-012611	CHH11012804-09A
	TPHE(0.10)	[PHE(0.10)		TPHE(0.10)			റ	0	റ	01/26/11 12:20	ą	GB-19-46-04-012611	CHH11012804-08A
	TPHE(0.10)	<b>ГРН</b> Е(0.10)		TPHE(0.10)			റ	0	œ	01/26/11 11:55	Ą	GB-19-41-04-012611	CHH11012804-07A
	TPHE(0.10)	[PHE(0.10)		TPHE(0.10)			റ	0	ω	01/26/11 11:30	Ą	GB-19-34-04-012611	CHH11012804-06A
	TPHE(0.10)	[PHE(0.10)		TPHE(0.10)			6	0	7	01/26/11 09:55	ð	GB-20-45-05-012611	CHH11012804-05A
	TPHE(0.10)	IPHE(0.10)		TPHE(0.10)			റ	0	7	01/26/11 09:50	Ą	GB-20-45-04-012611	CHH11012804-04A
	TPHE(0.10)	[PHE(0.10)		TPHE(0.10)			თ	0	თ	01/26/11 09:15	Ą	QCEB-012611	CHH11012804-03A
	TPHE(0.10)	ГРНЕ(0.10)		TPHE(0.10)			0	0	ω	01/26/11 09:00	Ą	GB-20-39-04-012611	CHH11012804-02A
All voas received contain air bubbles > 6mm.	TPHE(0.10)	ГРНЕ(0.10)		TPHE(0.10)			თ	0	16	01/26/11 08:30	Ą	GB-20-34-04-012511	CHH11012804-01A
Sample Remarks							TAT	Sub	Alpha	x Date	Matri	Sample ID	Sample ID
	s voc_w	TPH/P_W VOC_S	TPH/P_S	TPH/E_W	TPH/E_S	P_MOIST	S	f Bottle	No. of	Collection		Client	Alpha
		d Tests	Requeste										

Logged in by: alouth Signatur Ad cox Elizabeth **Print Name** FldCox Alpha Analytical, Inc. 1.28.11

Company

Date/Time

24

Security seals intact. Frozen ice. Analysts; Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. :

Comments:

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Billing Information:** 

# CHAIN-OF-CUSTODY RECORD

Page: 2 of 2

	CHAIN-0	OF-CUST	ODY RECORD	C.A	- Survey	1 2 1
	255 Glendal	Alpha Analyt	tical, Inc.	WorkOrder :	CHHL110128	304
	TEL:	: (775) 355-1044 FAX	X: (775) 355-0406	Report Due By : 5	:00 PM On : 0	7-Feb-2011
Client:	Report Attention	Phone Number	EMail Address			
CH2M Hill	Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com			
1000 Wilshire Boulevard	Vladimir Carino	(213) 228-8271 x	vladimir.carino@ch2m.com	EDD Required : Ye	Ġ	
Los Angeles, CA 90017				Sampled by : Ma	ttt Mayry	
PO ::				<u>Cooler Temp</u>	Samples Received	Date Printed
Client's COC #: 32000	Job: KMEP Norwalk			2 °C	28-Jan-2011	28-Jan-2011
QC Level : S3 = Final Rpt, MBL	<, LCS, MS/MSD With Surrogates					
			Requested	Tests		
Alpha Client	Collection No. of Bo	ottles P_MOIS	T TPH/E_S TPH/E_W TPH/P_S T	PH/P_W VOC_S VOC_W	2	
CHH11012804-11A QCTB-012611	AQ 01/26/11 2 0	6		ТрнЕ(0.10)	2 Reno T 11/22/10	rip Blanks (1) ) (1) 12/21/10

**Comments:** Security seals intact. Frozen ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. :

1		
	Logged in by:	
4	Cenpbet	S
	n Udc	gnature )
	ex Eli	
	izabeth	Print Name
	Hdcox -	>
	Alpha Analytical, Inc.	Company
	- 1-28-11 1212	Date/Time

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Iling Information: mpany Name Direct Juli Kinder Morgan n: att - Dan Jublemski / Citamili II dress	Alpha Analytica 255 Glendale Avenue, S Sparks, Nevada 89431- Phone (775) 355-1044 Fax (775) 355-0406	II, Inc. Suite 21 -5778 -778 -577	W WA DOD Site HER Page # o
one Number 818-257-330 Fax 714-424-21	35	Analyses F	
onsultant/Client Name N Dan Jablanck ( Job	# Inect Will to Kinda Margalin Job Name KM	NEP Nonversky TE 2 2 2 2	Level: III or
dress his Withme Blus Flag, 21 Nor	Report Attention / Project Manager	E ATCA	
Los Anaska, CA 90017 Eme		+/ % cm	EDD/EDF? YES
Ime Date Matrix* P.O. #	ne: Mobile:	TX 9 F	Global
mpled Sampled Below Lab ID Number (Use Only)	Sample Description TAT	Filed # Containers" BT P. To	/ / REMARKS
30 1-20140 (CHH 110/2804-NI 60	112elo-Ho-he-he-06-2	XXX JAN JI	Solyment in service
	-20-39-04-012611	8 VOA5 1 1 1	
	56-013611	6 VOA5 1 1 1	
-04Kg	-20-42-04-02-11	7 101 - 1	
155 11 1 N D · J 48	-20-45-05-012611	7/01 1 1 1	
30 1 1 Sum & Sum - Ola Kg	-19-34-04-012611	S VOX S	
	(10) (10) (10) (10) (10) (10) (10) (10)		
	1,3 = 10, 30 - 3h - 6i - 11 - 6i - 11 - 6i - 11 - 11 - 11	RNOAD AND AND AND AND AND AND AND AND AND A	Mc/men
$350 \ \forall \ \text{set}$	W-Soll-012611	3 is XXX	<b>A</b> = -1-
- 1-26 AQ	TB-012611 (trip blank)	a Vor X	
DDITIONAL INSTRUCTIONS:			
(field sampler), attest to the validity and authenticity of this rounds for legal action (NAC 445.0636 (c) (2)). Sampled E	sample tamewas that tampering with or intentionall	ly mislabeling the sample location, date or time of c	collection is considered fraud and ma
ellinquished by (appendix)/Affiliation) SHOM 41/1 1-2	All 11:55 Received by the section of	lphe Anspteal 1	hate: $\frac{1}{\sqrt{2}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{2}} 1$
inquished by: (Signature) (Signature) Alaha Arabic	<ul> <li>I vary // // // // // (Signature/Affiliation)</li> <li>I vary // // // (Signature/Affiliation)</li> </ul>	Idax alpha	Vate: 1°28-11 1212
בווויקעוסיובע בעייי (יטוּטַווּמעויביראווומעטיו)	Travensor by Anglian a Annuarian		

of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report. NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

### CH2M Hill 1000 Wilshire Boulevard Los Angeles, CA 90017

ANALYTICAL REPORT

Attn: Daniel Jablonski Phone: (213) 228-8271 Fax: (714) 424-2135 Date Received : 01/28/11

Job: KMEP Norwalk

## Metals by ICPMS EPA Method SW6020 / SW6020A

	211	<u></u>		<u> </u>	
	Parameter	Concentration	Reporting	Date	Date
			Limit	Extracted	Analyzed
Client ID: IDW-SOIL-012611					
Lab ID : CHH11012804-10A	Beryllium (Be)	ND	1.0 mg/Kg	02/09/11	02/10/11
Date Sampled 01/26/11 13:30	Vanadium (V)	34	1.0 mg/Kg	02/09/11	02/10/11
-	Chromium (Cr)	19	1.0 mg/Kg	02/09/11	02/10/11
	Cobalt (Co)	7.0	1.0 mg/Kg	02/09/11	02/10/11
	Nickel (Ni)	14	2.0 mg/Kg	02/09/11	02/10/11
	Copper (Cu)	17	2.0 mg/Kg	02/09/11	02/10/11
	Zinc (Zn)	41	20 mg/Kg	02/09/11	02/10/11
	Arsenic (As)	5.2	1.0 mg/Kg	02/09/11	02/10/11
	Selenium (Se)	ND	1.0 mg/Kg	02/09/11	02/10/11
	Molybdenum (Mo)	ND	1.0 mg/Kg	02/09/11	02/10/11
	Silver (Ag)	ND	1.0 mg/Kg	02/09/11	02/10/11
	Cadmium (Cd)	ND	1.0 mg/Kg	02/09/11	02/10/11
	Antimony (Sb)	ND	1.0 mg/Kg	02/09/11	02/10/11
	Barium (Ba)	110	1.0 mg/Kg	02/09/11	02/10/11
	Mercury (Hg)	ND	0.20 mg/Kg	02/09/11	02/10/11
	Thallium (TI)	ND	1.0 mg/Kg	02/09/11	02/10/11
	Lead (Pb)	3.8	1.0 mg/Kg	02/09/11	02/10/11

Sample results were calculated on a wet weight basis. ND = Not Detected

Roger Scholl

Kandy Sandmer

Walter Ainihum

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

2/15/11 Report Date



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

### **ANALYTICAL REPORT**

### CH2M Hill 1000 Wilshire Boulevard Los Angeles, CA 90017

 Attn:
 Daniel Jablonski

 Phone:
 (213) 228-8271

 Fax:
 (714) 424-2135

 Date Received : 01/28/11

Job: KMEP Norwalk

		Percent Moisture ASTM D2216			
	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>IDW-SOIL-012611</b> Lab ID : CHH11012804-10A Date Sampled 01/26/11 13:30	Percent Moisture	31	0.10 %	02/03/11	02/03/11

Roger Scholl

Kandy Dantmer

Dalter Hirihun

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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2/4/1

**Report Date** 



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

### **ANALYTICAL REPORT**

CH2M Hill 1000 Wilshire Boulevard Los Angeles, CA 90017

 Attn:
 Daniel Jablonski

 Phone:
 (213) 228-8271

 Fax:
 (714) 424-2135

 Date Received : 01/28/11

Job: KMEP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B Volatile Organic Compounds (VOCs) EPA Method SW8260B

				Reporting	Date	Date
		Parameter	Concentration	Limit	Extracted	Analyzed
Client ID :	IDW-SOIL-012611					
Lab ID :	CHH11012804-10A	TPH-E (Fuel Product)	ND	15 mg/Kg-dry	02/01/11	02/03/11
Date Sampled	01/26/11 13:30	Surr: Nonane	123	(62-161) %REC	02/01/11	02/03/11
-		TPH-P (GRO)	ND	1.5 mg/Kg-dry	01/31/11	01/31/11
		Tertiary Butyl Alcohol (TBA)	ND	290 μg/Kg-dry	01/31/11	01/31/11
		Methyl tert-butyl ether (MTBE)	ND	7.3 μg/Kg-dry	01/31/11	01/31/11
		Di-isopropyl Ether (DIPE)	ND	20 μg/Kg-dry	01/31/11	01/31/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	20 μg/Kg-dry	01/31/11	01/31/11
		Benzene	ND	7.3 μg/Kg-dry	01/31/11	01/31/11
		Tertiary Amyl Methyl Ether (TAME)	ND	20 μg/Kg-dry	01/31/11	01/31/11
		Toluene	ND	7.3 μg/Kg-dry	01/31/11	01/31/11
		Ethylbenzene	ND	7.3 μg/Kg-dry	01/31/11	01/31/11
		m,p-Xylene	ND	7.3 μg/Kg-dry	01/31/11	01/31/11
		o-Xylene	ND	7.3 μg/Kg-dry	01/31/11	01/31/11
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	01/31/11	01/31/11
		Surr: Toluene-d8	104	(70-130) %REC	01/31/11	01/31/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	01/31/11	01/31/11

Gasoline Range Organics (GRO) C4-C13

Concentrations and reporting limits are based on dry weights.  $\ensuremath{\mathsf{ND}}\xspace = \ensuremath{\mathsf{Not}}\xspace$  Detected

Roger Scholl

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

**Report Date** 

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.



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### **ANALYTICAL REPORT**

CH2M Hill 1000 Wilshire Boulevard Los Angeles, CA 90017 
 Attn:
 Daniel Jablonski

 Phone:
 (213) 228-8271

 Fax:
 (714) 424-2135

 Date Received : 01/28/11

Job: KMEP Norwalk

### Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B Volatile Organic Compounds (VOCs) EPA Method SW8260B

				Reporting	Date	Date
		Parameter	Concentration	Limit	Extracted	Analyzed
Client ID :	GB-20-34-04-012611					
Lab ID :	CHH11012804-01A	TPH-E (Fuel Product)	0.22 **	0.10 mg/L	01/31/11	01/31/11
Date Sampled	01/26/11 08:30	Surr: Nonane	101	(49-145) %REC	01/31/11	01/31/11
•		TPH-P (GRO)	ND	0.050 mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	$1.0 \mu g/L$	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	$1.0 \ \mu g/L$	02/02/11	02/02/11
		Benzene	ND	0.50 µg/L	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	02/02/11	02/02/11
		Toluene	ND	0.50 µg/L	02/02/11	02/02/11
		Ethylbenzene	ND	0.50 µg/L	02/02/11	02/02/11
		m,p-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		o-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	02/02/11	02/02/11
		Surr: Toluene-d8	101	(70-130) %REC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	02/02/11	02/02/11
Client ID :	GB-20-39-04-012611					
Lab ID :	CHH11012804-02A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/31/11	01/31/11
Date Sampled	01/26/11 09:00	Surr: Nonane	100	(49-145) %REC	01/31/11	01/31/11
		TPH-P (GRO)	ND	0.050 mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND	10 μg/L	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	02/02/11	02/02/11
		Benzene	ND	0.50 µg/L	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 μg/L	02/02/11	02/02/11
		Toluene	ND	0.50 μg/L	02/02/11	02/02/11
		Ethylbenzene	ND	0.50 µg/L	02/02/11	02/02/11
		m,p-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		o-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	02/02/11	02/02/11
		Surr: Toluene-d8	98	(70-130) %REC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	02/02/11	02/02/11



Client ID :	QCEB-012611					
Lab ID :	CHH11012804-03A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/31/11	01/31/11
Date Sampled	01/26/11 09:15	Surr: Nonane	100	(49-145) %REC	01/31/11	01/31/11
•		TPH-P (GRO)	ND	0.050 mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	02/02/11	02/02/11
		Benzene	ND	0.50 µg/L	02/02/11	02/02/11
-		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	02/02/11	02/02/11
		Toluene	ND	0.50 µg/L	02/02/11	02/02/11
		Ethylbenzene	ND	0.50  µg/L	02/02/11	02/02/11
		m,p-Xylene	ND	0.50  µg/L	02/02/11	02/02/11
		o-Xvlene	ND	0.50 µg/L	02/02/11	02/02/11
		Surr: 1.2-Dichloroethane-d4	102	(70-130) %RFC	02/02/11	02/02/11
		Surr: Toluene-d8	100	(70-130) %REC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	02/02/11	02/02/11
			,,	(10150) /0122	02/02/11	02/02/11
Client ID :	GB-20-45-04-012611					
Lab ID :	CHH11012804-04A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/31/11	01/31/11
Date Sampled	01/26/11 09:50	Surr: Nonane	105	(49-145) %REC	01/31/11	01/31/11
		TPH-P (GRO)	ND	0.050 mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND	$10 \ \mu g/L$	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	02/02/11	02/02/11
		Benzene	ND	0.50 µg/L	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	02/02/11	02/02/11
		Toluene	ND	0.50 µg/L	02/02/11	02/02/11
		Ethylbenzene	ND	0.50 µg/L	02/02/11	02/02/11
		m,p-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		o-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		Surr: 1.2-Dichloroethane-d4	106	(70-130) %REC	02/02/11	02/02/11
		Surr: Toluene-d8	100	(70-130) %REC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	02/02/11	02/02/11
				(10 100) /0120	02,02,1	02/02/11
Client ID :	GB-20-45-05-012611					
Lab ID :	CHH11012804-05A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/31/11	01/31/11
Date Sampled	01/26/11 09:55	Surr: Nonane	102	(49-145) %REC	01/31/11	01/31/11
		TPH-P (GRO)	ND	0.050 mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	02/02/11	02/02/11
		Benzene	ND	$0.50 \ \mu g/L$	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAME)	ND	$1.0 \mu g/L$	02/02/11	02/02/11
		Toluene	ND	0.50 µg/L	02/02/11	02/02/11
		Ethylbenzene	ND	0.50 µg/L	02/02/11	02/02/11
		m,p-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		o-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		Surr: 1,2-Dichloroethane-d4	106	(70-130) %REC	02/02/11	02/02/11
		Surr: Toluene-d8	102	(70-130) %REC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	02/02/11	02/02/11
				(		040111



Client ID :	GB-19-34-04-012611					
Lab ID :	CHH11012804-06A	TPH-E (Fuel Product)	ND	0.10  mg/L	01/31/11	01/31/11
Date Sampled	01/26/11 11:30	Surr: Nonane	99	(49-145) %REC	01/31/11	01/31/11
		TPH-P (GRO)	ND	0.050  mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	02/02/11	02/02/11
		Benzene	ND	0.50 µg/L	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	02/02/11	02/02/11
		Tohuene	ND	0.50 µg/I	02/02/11	02/02/11
		Fthylbenzene	ND	0.50 µg/L	02/02/11	02/02/11
		m n-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		o-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		Surr: 1.2-Dichloroethane d4	104	(70, 120) 9/ PEC	02/02/11	02/02/11
		Surr Toluena de	104	(70-130) %REC	02/02/11	02/02/11
		Surr: A Bromofluorohonzono	99 05	(70-130) %REC	02/02/11	02/02/11
		Suit. 4-Biomonuorobenzene	95	(70-130) %REC	02/02/11	02/02/11
Client ID :	GB-19-41-04-012611					
Lab ID :	CHH11012804-07A	TPH-E (Fuel Product)	ND	0.10  mg/L	01/31/11	01/31/11
Date Sampled	01/26/11 11:55	Surr: Nonane	96	(49-145) %REC	01/31/11	01/31/11
		TPH-P (GRO)	ND	0.050 mg/I	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/I	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBF)	ND	0 50 µg/I	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/I	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (FTBE)	ND	1.0 μg/Ι	02/02/11	02/02/11
		Benzene	ND	0.50 µg/I	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAME)	ND	0.50 μg/L	02/02/11	02/02/11
		Toluene	ND	$0.50 \ \mu g/L$	02/02/11	02/02/11
		Fthylbenzene		0.50 μg/L	02/02/11	02/02/11
		m n-Yvlene	ND	0.50 μg/L	02/02/11	02/02/11
		o. Yulana	ND	0.50 μg/L	02/02/11	02/02/11
		Surry 1.2 Diablorathana da	ND 107	0.50 μg/L	02/02/11	02/02/11
		Sum Toluono de	107	(70-130) %REC	02/02/11	02/02/11
		Sum 4 Draw of the sector	98	(70-130) %REC	02/02/11	02/02/11
		Sull: 4-Bromonuorobenzene	93	(70-130) %REC	02/02/11	02/02/11
Client ID :	GB-19-46-04-012611					
Lab ID :	CHH11012804-08A	TPH-E (Fuel Product)	ND	0.10  mg/L	01/31/11	02/01/11
Date Sampled	01/26/11 12:20	Surr: Nonane	99	(49-145) %REC	01/31/11	02/01/11
•		TPH-P (GRO)	ND	0.050  mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND	0 50 µg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	10 µg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/l	02/02/11	02/02/11
		Benzene	ND	0.50 µg/L	02/02/11	02/02/11
	,	Terriary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	02/02/11	02/02/11
		Toluene	ND	1.0 μg/L 0.50 μα/l	02/02/11	02/02/11
		Ethylbenzene	ND	0.50 µg/L	02/02/11	02/02/11
		m n-Xvlene		0.50 μg/L	02/02/11	02/02/11
		o-Xvlene		0.50 µg/L	02/02/11	02/02/11
		Surr 1 2-Dichloroethane d4	110	U.50 μg/L (70.120) % DEC	02/02/11	02/02/11
		Surr: Toluene-d8	00	(70-130) %KEC	02/02/11	02/02/11
		Surr 4-Bromofluorsbonzono	77 04	(70-130) %KEC (70-120) %KEC	02/02/11	02/02/11
		Switt + DromonuoloucilZelle	74	(70-130) %KEC	02/02/11	02/02/11



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Client ID :	GB-19-46-06-012611					
Lab ID :	CHH11012804-09A	TPH-E (Fuel Product)	ND	0.10 mg/L	01/31/11	02/01/11
Date Sampled	01/26/11 12:25	Surr: Nonane	100	(49-145) %REC	01/31/11	02/01/11
		TPH-P (GRO)	ND	0.050 mg/L	02/02/11	02/02/11
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	02/02/11	02/02/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	02/02/11	02/02/11
		Benzene	ND	0.50 µg/L	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 μg/L	02/02/11	02/02/11
		Toluene	ND	0.50 µg/L	02/02/11	02/02/11
		Ethylbenzene	ND	0.50 µg/L	02/02/11	02/02/11
		m,p-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		o-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	02/02/11	02/02/11
		Surr: Toluene-d8	102	(70-130) %REC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	02/02/11	02/02/11
Client ID :	QCTB-012611					
Lab ID :	CHH11012804-11A	Tertiary Butyl Alcohol (TBA)	ND	10 μg/L	02/02/11	02/02/11
Date Sampled	01/26/11 00:00	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	02/02/11	02/02/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	02/02/11	02/02/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	02/02/11	02/02/11
		Benzene	ND	$0.50 \ \mu g/L$	02/02/11	02/02/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 μg/L	02/02/11	02/02/11
		Toluene	ND	0.50 µg/L	02/02/11	02/02/11
		Ethylbenzene	ND	0.50 µg/L	02/02/11	02/02/11
		m,p-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		o-Xylene	ND	0.50 µg/L	02/02/11	02/02/11
		Surr: 1,2-Dichloroethane-d4	84	(70-130) %REC	02/02/11	02/02/11
		Surr: Toluene-d8	105	(70-130) %REC	02/02/11	02/02/11
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	02/02/11	02/02/11

\*\*Note: Reported TPH-E (Fuel Product) may contain undifferentiated diesel range hydrocarbons.

All VOAs that were provided for sample 01A had an air bubble.

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Roger Scholl

Kandy Daulmen

Walter Arihm

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

2/4/11 Report Date



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### **VOC Sample Preservation Report** Work Order: CHH11012804 Job: KMEP Norwalk Alpha's Sample ID Client's Sample ID pН Matrix 11012804-01A GB-20-34-04-012611 Aqueous 5 11012804-02A GB-20-39-04-012611 5 Aqueous 11012804-03A 2 QCEB-012611 Aqueous 11012804-04A GB-20-45-04-012611 Aqueous 4 11012804-05A GB-20-45-05-012611 2 Aqueous 11012804-06A GB-19-34-04-012611 2 Aqueous 11012804-07A 5 GB-19-41-04-012611 Aqueous 11012804-08A 3 GB-19-46-04-012611 Aqueous 11012804-09A GB-19-46-06-012611 5 Aqueous 11012804-11A 2 QCTB-012611 Aqueous

### 2/4/11 Report Date

Page 1 of 1



<b>Date:</b> 15-Feb-11	7.514	(	QC Su	mmary	y Report	ţ			<b>Work Ord</b> 11012804	er: 1
Method Blan	ık		Type: ME	BLK Te	est Code: EP	A Met	hod SW60	20 / SW6020A		
File ID: 021011	.B\019_M2.D\			Ba	atch ID: 2595	9		Analysis Date:	02/10/2011 15:45	
Sample ID:	MB-25959	Units : mg/K	g F	Run ID: IC	P/MS_11021	<b>0</b> A		Prep Date:	02/09/2011 12:34	
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	val %RPD(Limit)	Qual
Beryllium (Be)		ND	1							
Vanadium (V)		ND	1							
Chromium (Cr)		ND	1							
Cobalt (Co)		ND	1							
Conper (Cu)		ND	2							
Zinc (Zn)		ND	20							
Arsenic (As)		ND	1							
Selenium (Se)		ND	1							
Molybdenum (N	10)	ND	1							
Cadmium (Cd)			1							
Antimony (Sb)		ND	1							
Barium (Ba)		ND	1							
Mercury (Hg)		ND	0.2							
Thallium (TI)		ND	1							
Lead (PD)		ND	1							
Laboratory (	Control Spike		Type: LC	<b>S</b> Te	est Code: EP	PA Met	hod SW60	)20 / SW6020A		
File ID: 021011	.B\020_M.D\			Ba	atch ID: 2595	i9		Analysis Date:	02/10/2011 15:51	
Sample ID:	LCS-25959	Units : mg/K	g F	Run ID: IC	P/MS_11021	I0A		Prep Date:	02/09/2011 12:34	
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qua
Beryllium (Be)		27.2	1	25		109	80	120		
Vanadium (V)		25.3	1	25		101	80	120		
Chromium (Cr)		28.1	1	25		112	80	120		
Nickel (Ni)		26.5	1	25		100	80 80	120		
Copper (Cu)		27.2	2	25		109	80	120		
Zinc (Zn)		27.2	20	25		109	80	120		
Arsenic (As)		26.8	1	25		107	80	120		
Selenium (Se)	4)	27.2	1	25		109	80	120		
Molybdenum (N	AO)	27.2	1	25		109	80	120		
Cadmium (Cd)		20.3	1	20		105	80 80	120		
Antimony (Sb)		25.4	1	25		102	80	120		
Barium (Ba)		291	1	250		116	80	120		
Mercury (Hg)		0.49	0.2	0.5		98	80	120		
I hallium (11)		26.3	1	25		105	80	120		
Leau (PD)		21.1	1	25		111	80	120		
Sample Mat	rix Spike		Type: MS	5 Te	est Code: EF	PA Met	hod SW60	)20 / SW6020A		
File ID: 021011	.B\025_M.D\			Ba	atch ID: 2595	59		Analysis Date:	02/10/2011 16:19	
Sample ID:	11020842-01AMS	Units : mg/K	ig F	Run ID: IC	P/MS_11021	10A		Prep Date:	02/09/2011 12:34	
Analyte	·····	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qua
Beryllium (Be)		27.3	1	25	0	109	75	125		
Vanadium (V)		76.4	1	25	54.04	89	75	125		
Chromium (Cr)		78	1	25	60.18	71	75	125		M2
Cobalt (Co)		35.4	1	25	10.66	99	75	125		
Copper (Cu)		104	2	25	83.98	81 04	75 75	125		
Zinc (Zn)		43.2	20	25	45.3	87	75	125		
Arsenic (As)		29.8	1	25	4.292	102	75	125		
Selenium (Se)		25.8	1	25	0	103	75	125		
Molybdenum (N	No)	26.1	1	25	0	105	75	125		
Cadmium (Cd)		26	1 1	25	0	104 111	75 76	125 125		
Antimonv (Sh)		21.1 25.6	1	25	0	102	75 75	125		
Barium (Ba)		494	1	250	238.5	102	75	125		
Mercury (Hg)		0.654	0.2	0.5	0	131	75	125		M1
Thallium (TI)		26.2	1	25	0	105	75	125		
Lead (Pb)		33.3	1	25	7.366	104	75	125		



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Date: 15-Feb-11		QC Su	mmar	y Repor	t				<b>Work Ord</b> 11012804	er: 1
Sample Matrix Spike Duplicate		Type: MS	SD T	est Code: E	PA Met	hod SW6	020 / SW6	020A		
File ID: 021011.B\026_M.D\			Ba	atch ID: 259	59		Analy	ysis Date: (	2/10/2011 16:25	
Sample ID: 11020842-01AMSD	Units : mg/	'Ka f	Run ID: IC	P/MS 1102	10A		Prep	Date: (	2/09/2011 12:34	
Analyte	Result	PQL	SpkVal	 SpkRefVal	%REC	LCL(ME)	UCL(ME	) RPDRefVa	al %RPD(Limit)	Qual
Beryllium (Be)	26.6	1	25	0	106	75	125	27.31	2.6(20)	
Vanadium (V)	78.7	1	25	54.04	99	75	125	76.4	3.0(20)	
Chromium (Cr)	78	1	25	60.18	71	75	125	78	0.0(20)	M2
Cobalt (Co)	35.3	1	25	10.66	99	75	125	35.38	0.1(20)	
Nickel (Ni)	107	2	25	83.98	92	75	125	104.3	2.5(20)	
Copper (Cu)	45.5	2	25	21.77	95	75	125	45.16	0.6(20)	
Zinc (Zn)	67.3	20	25	45.3	88	75	125	67.01	0.5(20)	
Arsenic (As)	28.9	1	25	4.292	99	75	125	29.81	3.0(20)	
Selenium (Se)	24.2	1	25	0	97	75	125	25.84	6.6(20)	
Molybdenum (Mo)	25.5	1	25	0	102	75	125	26.14	2.5(20)	
Silver (Ag)	25.6	1	25	0	102	75	125	26.04	1.7(20)	
Cadmium (Cd)	27.1	1	25	0	108	75	125	27.68	2.2(20)	
Antimony (Sb)	24.9	1	25	0	99	75	125	25.6	2.9(20)	
Barium (Ba)	492	1	250	238.5	101	75	125	493.6	0.3(20)	
Mercury (Hg)	0.673	0.2	0.5	0	135	75	125	0.6543	2.8(20)	M1
Thallium (TI)	26	1	25	0	104	75	125	26.17	0.7(20)	
Lead (Pb)	32.6	1	25	7.366	101	75	125	33.29	2.0(20)	

### **Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.



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<b>Date:</b> 04-Feb-11	QC Summary Report	<b>Work Order:</b> 11012804
Method Blank File ID: 2A02031109.D Sample ID: MBLK-25907 Analyte	Type MBLK Test Code: EPA Method SW8015B/C Ext Batch ID: 25907 Analysis Units : mg/Kg Run ID: FID_2_110201A Prep Date Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RP	Date: 02/03/2011 13:03 ∋: 02/01/2011 12:50 DRefVal %RPD(Limit) Qual
TPH-E (Fuel Product) Surr: Nonane	ND 5 6.47 6 108 62 161	
Laboratory Control Spike File ID: 2A02031108.D Sample ID: LCS-25907 Analyte	Type LCS Test Code: EPA Method SW8015B/C Ext Batch ID: 25907 Analysis Units : mg/Kg Run ID: FID_2_110201A Prep Date Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RP	Date: 02/03/2011 12:38 e: 02/01/2011 12:50 DRefVal %RPD(Limit) Qual
TPH-E (DRO) Surr: Nonane	112         5         100         112         70         130           6.92         6         115         62         161	
Sample Matrix Spike File ID: 2A02031110.D Sample ID: 11012825-01AMS Analyte	Type MS Test Code: EPA Method SW8015B/C Ext Batch ID: 25907 Analysis Units : mg/Kg Run ID: FID_2_110201A Prep Date Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RP	Date: 02/03/2011 13:28 e: 02/01/2011 12:50 DRefVal %RPD(Limit) Qual
TPH-E (DRO) Surr: Nonane	195         5         100         69.21         126         50         149           8.69         6         145         62         161	
Sample Matrix Spike Duplicate File ID: 2A02031111.D Sample ID: 11012825-01AMSD Analyte	Type MSD Test Code: EPA Method SW8015B/C Ext Batch ID: 25907 Analysis Units : mg/Kg Run ID: FID_2_110201A Prep Date Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RP	Date: 02/03/2011 13:53 e: 02/01/2011 12:50 DRefVal %RPD(Limit) Qual
TPH-E (DRO) Surr: Nonane	162         5         100         69.21         92         50         149           7.24         6         121         62         161	194.8 18.6(46)

### **Comments:**



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<b>Date:</b> 04-Feb-11		(	QC S	ummar	y Repor	t				Work Orde 11012804	er: 
Method Blank File ID: 7A01311	( 106.D		Туре 🛚	MBLK TO Ba	est Code: El atch ID: 258	PA Met 99	hod SW8(	)15B/C Ext Analysis	a Date:	01/31/2011 12:41	
Sample ID: I Analyte	MBLK-25899	Units : <b>mg/L</b> Result	PQL	Run ID: <b>Fi</b> SpkVal	D_7_11013 SpkRefVal	I <b>A</b> %REC	LCL(ME)	Prep Da UCL(ME) R	ite: PDRef∖	01/31/2011 10:08 /al %RPD(Limit)	Qual
TPH-E (Fuel Pro Surr: Nonane	duct)	ND 0.153	0.1	l 0.15		102	49	145			
Laboratory C File ID: 7A01311	ontrol Spike 107.D		Type L	.CS To Ba	est Code: El atch ID: 258	PA Met 99	hod SW80	)15B/C Ext Analysis	Date:	01/31/2011 13:08	
Sample ID: I Analyte	LCS-25899	Units : mg/L Result	PQL	Run ID: <b>FI</b> SpkVal	D_7_110131 SpkRefVal	I <b>A</b> %REC	LCL(ME)	Prep Da UCL(ME) R	ıte: PDRef∖	01/31/2011 10:08 /al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		2.3 0.156	0.05	5 2.5 0.15		92 104	70 49	130 145			
Sample Matri File ID: 7A01311	x Spike 109.D		Туре 🛚	<b>AS</b> To Ba	est Code: El atch ID: 258	PA Met 99	hod SW8(	)15B/C Ext Analysis	a Date:	01/31/2011 14:01	
Sample ID:	11013101-01AMS	Units : <b>mg/L</b> Result	PQL	Run ID: <b>FI</b> SpkVal	D_7_110131 SpkRefVal	I <mark>A</mark> %REC	LCL(ME)	Prep Da UCL(ME) R	ite: PDRef∖	01/31/2011 10:08 /al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		2.23 0.161	0.05	5 2.5 0.15	0	89 107	53 49	150 145			
Sample Matri File ID: 7A01311	x Spike Duplicate		Туре М	<b>ISD</b> Te Ba	est Code: El atch ID: 258	PA Met 99	hod SW80	)15B/C Ext Analysis	a Date:	01/31/2011 14:27	
Sample ID: 4	11013101-01AMSD	Units : <b>mg/L</b> Result	PQL	Run ID: <b>Fi</b> SpkVal	D_7_110131 SpkRefVal	I <b>A</b> %REC	LCL(ME)	Prep Da UCL(ME) RI	ite: PDRef√	<b>01/31/2011 10:08</b> /al %RPD(Limit)	Qual
TPH-E (DRO) Surr: Nonane		2.48 0.146	0.05	5 2.5 0.15	0	99 97	53 49	150 145	2.226	6 10.9(47)	

### Comments:



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<b>Date:</b> 04-Feb-11		QC S	Sur	nmar	y Repor	t				<b>Work Orde</b> 11012804	er:
Method Blank File ID: 11013106.D		Туре	MBI	<b>-K</b> Te Ba	est Code: E	PA Met 08S589	hod SW80 2B	15B/C Analys	sis Date:	01/31/2011 10:59	
Sample ID: MBLK MS08S5892B	Units : mg/l	۲g	Ru	ın ID: M	SD 08 110	131A		Prep [	Date:	01/31/2011 10:59	
Analyte	Result	PQL		SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef∖	/al %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	ND 0.203 0.209 0.199		1	0.2 0.2 0.2		101 105 99.5	70 70 70	130 130 130			
Laboratory Control Spike		Туре	LCS	i Te	est Code: E	PA Met	hod SW80	)15B/C			
File ID: 11013110.D				Ba	atch ID: MS	085589	2B	Analys	sis Date:	01/31/2011 12:37	
Sample ID: GLCS MS08S5892B	Units : <b>mg/l</b>	۲g	R	un ID: M	SD_08_110	131A		Prep (	Date:	01/31/2011 12:37	
Analyte	Result	PQL		SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	17.4 0.399 0.381 0.425		2	16 0.4 0.4 0.4		109 99.8 95 106	63 70 70 70	148 130 130 130			
Sample Matrix Spike		Туре	MS	Te	est Code: E	PA Met	hod SW80	015B/C			
File ID: 11013111.D				Ва	atch ID: MS	08S589	2B	Analys	sis Date:	01/31/2011 13:01	
Sample ID: 11012801-04AGS	Units : mg/l	٨g	R	un ID: M	SD_08_110	131A		Prep [	Date:	01/31/2011 13:01	
Analyte	Result	PQL		SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	17.7 0.397 0.392 0.442		2	16 0.4 0.4 0.4	0	111 99 98 110	35 70 70 70	166 130 130 130			
Sample Matrix Spike Duplicate		Туре	MSI	D Te	est Code: E	PA Met	hod SW8(	015B/C			
File ID: 11013112.D				Ba	atch ID: MS	08S589	2B	Analy	sis Date:	01/31/2011 13:26	
Sample ID: 11012801-04AGSD	Units : mg/l	Kg	Rı	un ID: <b>M</b>	SD_08_110	131 <b>A</b>		Prep (	Date:	01/31/2011 13:26	
Analyte	Result	PQL		SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	17 0.351 0.398 0.43		2	16 0.4 0.4 0.4	0	106 88 99.6 107	35 70 70 70	166 130 130 130	17.72	2 4.3(33)	

### Comments:



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<b>Date:</b> 04-Feb-11	(	QC S	ummar	y Repor	t				<b>Work Orde</b> 11012804	er:
Method Blank	<u></u>	Type N	IBLK Te	est Code: El		hod SW80	)15B/C	sis Data:	02/02/2011 00.52	
Sample ID: MBLK MS12W/0202P	l loito : m.e./l			ALCH ID. MIS	1299UZU	120	Analy Drop I	Doto:	02/02/2011 09.55	
Analyte	Pocult		Solval	Sol/Doft/ol					02/02/2011 09.55	Qual
			Spikvai	эрккегиа	70REC		UCL(IVIE)	REDREN		Quar
Surr: 1 2-Dichloroethane-d4	ND 0.00069	0.05	0.01		07	70	120			
Surr: Toluene-d8	0.00908		0.01		97 105	70	130			
Surr: 4-Bromofluorobenzene	0.00916		0.01		92	70	130			
Laboratory Control Spike		Type L	CS Te	est Code: El	PA Met	hod SW80	15B/C			
File ID: 11020202.D			Ва	atch ID: MS	12W020	2B	Analy	sis Date:	02/02/2011 09:07	
Sample ID: GLCS MS12W0202B	Units : mg/L		Run ID: M	SD 12 110	202A		Prep I	Date:	02/02/2011 09:07	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO)	0.429	0.05	0.4		107	70	130			
Surr: 1,2-Dichloroethane-d4	0.00959		0.01		96	70	130			
Surr: Toluene-d8	0.00997		0.01		99.7	70	130			
Surr: 4-Bromofluorobenzene	0.00958		0.01		96	70	130			
Sample Matrix Spike		Type N	IS Te	est Code: El	PA Meti	hod SW80	15B/C			
File ID: 11020220.D			Ba	atch ID: MS1	2W020	2B	Analy	sis Date:	02/02/2011 16:06	
Sample ID: 11012804-01AGS	Units : mg/L		Run ID: M	SD_12_110	202A		Prep l	Date:	02/02/2011 16:06	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO)	2.08	0.25	2	0	104	51	144		· · · · · · · · · · · · · · · · · · ·	
Surr: 1,2-Dichloroethane-d4	0.0457		0.05		91	70	130			
Surr: Toluene-d8	0.0507		0.05		101	70	130			
Surr: 4-Bromofluorobenzene	0.0505		0.05		101	70	130			
Sample Matrix Spike Duplicate		Type N	ISD Te	est Code: El	PA Meti	hod SW80	15B/C			
File ID: 11020221.D			Ba	atch ID: MS1	2W020	2B	Analy	sis Date:	02/02/2011 16:29	
Sample ID: 11012804-01AGSD	Units : mg/L		Run ID: MS	SD_12_1102	202A		Prep [	Date:	02/02/2011 16:29	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO)	2.02	0.25	2	0	101	51	144	2.079	2.7(29)	
Surr: 1,2-Dichloroethane-d4	0.0444		0.05		89	70	130		· · /	
Surr: Toluene-d8	0.0509		0.05		102	70	130			
Surr: 4-Bromofluorobenzene	0.0483		0.05		97	70	130			

### Comments:



<b>Date:</b> 04-Feb-11	(	QC S	ummar	y Repo	rt			<b>Work Ord</b> 11012804	er:
Method Blank File ID: 11013106.D		Type N	ABLK T	est Code: E atch ID: MS	PA Mei 08S589	thod SW8 92A	260B Analysis Date:	01/31/2011 10:59	
Sample ID: MBLK MS08S5892A	Units : µg/K	g	Run ID: N	ISD_08_110	)131A		Prep Date:	01/31/2011 10:59	
Analyte	Result	PQL	SpkVal	SpkRefVal	I %REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	500	)			. ,	. ,		
Methyl tert-butyl ether (MTBE)	ND	5	5						
Di-isopropyl Ether (DIPE)	ND	20	)						
Ethyl Tertiary Butyl Ether (ETBE)	ND	20	)						
Benzene Tertiany Amyl Methyl Ether (TAME)	ND	5	j						
		20	)						
Ethylbenzene	ND	5							
m,p-Xylene	ND	5	5						
o-Xylene	ND	5	5						
Surr: 1,2-Dichloroethane-d4	203		200		101	70	130		
Surr: Toluene-d8	209		200		105	70	130		
Surr: 4-Bromotiuorobenzene	199		200		99.5	70	130		
Laboratory Control Spike		Type L	. <b>CS</b> T	est Code: E	PA Met	thod SW8	260B		
File ID: 11013107.D			В	atch ID: MS	08\$589	)2A	Analysis Date:	01/31/2011 11:24	
Sample ID: LCS MS08S5892A	Units : µg/K	g	Run ID: M	ISD_08_110	131A		Prep Date:	01/31/2011 11:24	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	2670	1000	4000		67	14	156		
Methyl tert-butyl ether (MTBE)	425	10	400		106	61	147		
Di-isopropyl Ether (DIPE)	494	20	400		124	68	150		
Engline Liner (EIBE)	434	20	400		109	66	150		
Tertiary Amyl Methyl Ether (TAME)	4/3	10	400		118	70	138		
Toluene	410	20	400		102	70	140		
Ethylbenzene	439	10	400		110	70	138		
m,p-Xylene	396	10	400		99	70	145		
o-Xylene	390	10	400		98	70	145		
Surr: 1,2-Dichloroethane-d4	433		400		108	70	130		
Surr: 1 oluene-d8	367		400		92	70	130		
Surr: 4-Bromonuorobenzene	462		400		115	70	130		
Sample Matrix Spike		Туре 🛛	IS T	est Code: E	PA Met	hod SW82	260B		
File ID: 11013108.D			В	atch ID: MS	08\$589	2A	Analysis Date:	01/31/2011 11:48	
Sample ID: 11012801-04AMS	Units : µg/Kg	9	Run ID: M	SD_08_110	131A		Prep Date:	01/31/2011 11:48	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	/al %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	1120	1000	4000	0	28	10	171		
Methyl tert-butyl ether (MTBE)	331	10	400	0	83	42	157		
DI-Isopropyl Ether (DIPE)	428	20	400	0	107	49	157		
Benzene	371	20	400	0	93	48	158		
Tertiary Amyl Methyl Ether (TAME)	430	10	400	0	107	53	150		
Toluene	_ 303 407	20	400	0	91	40 51	152		
Ethylbenzene	425	10	400	0	102	54	150		
m,p-Xylene	397	10	400	16.37	95	50	161		
o-Xylene	379	10	400	0	95	35	177		
Surr: 1,2-Dichloroethane-d4	350		400		88	70	130		
Surr: 1 oluene-d8	370		400		93	70	130		
Surr: 4-Bromotiuorobenzene	464		400		116	70	130		



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<b>Date:</b> 04-Feb-11	QC	Summa	ary Repo	rt				<b>Work Ord</b> 11012804	er: 1
Sample Matrix Spike Duplicate	Туре	MSD	Test Code: E	PA Met	hod SW8	260B			
File ID: 11013109.D			Batch ID: MS	08\$589	2A	Analy	sis Date: 0	1/31/2011 12:13	
Sample ID: 11012801-04AMSD Units	s∶ <b>μg/Kg</b>	Run ID:	MSD_08_110	)131A		Prep I	Date: 0	1/31/2011 12:13	
Analyte Re	esult PQ	L SpkV	al SpkRefVa	I %REC	LCL(ME)	UCL(ME)	RPDRefVa	I %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA) 2	820 10	00 40	00 0	) 71	10	171	1120	86.4(40)	R5
Methyl tert-butyl ether (MTBE)	404	10 40	00 0	) 101	42	157	330.5	20.1(32)	
Di-isopropyl Ether (DIPE)	469	20 40	00 0	) 117	49	157	428	9.1(31)	
Ethyl Tertiary Butyl Ether (ETBE)	420	20 40	00 0	) 105	48	158	370.5	12.6(31)	
Benzene	446	10 40	00 0	) 111	53	150	429.6	3.7(26)	
Tertiary Amyl Methyl Ether (TAME)	381	20 40	00 0	95	45	152	362.7	5.0(30)	
Toluene	396	10 40	00 0	99	51	149	407.2	2.7(26)	
Ethylbenzene	410	10 40	00 0	102	54	150	425	3.7(29)	
m,p-Xylene	383	10 40	00 16.37	92	50	161	397.1	3.6(38)	
o-Xylene	370	10 40	00 0	93	35	177	378.9	2.3(40)	
Surr: 1,2-Dichloroethane-d4	428	4(	00	107	70	130		( )	
Surr: Toluene-d8	369	40	00	92	70	130			
Surr: 4-Bromofluorobenzene	457	40	00	114	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.



<b>Date:</b> 04-Feb-11	(	QC S	ummar	y Repor	t			<b>Work Ord</b> 11012804	er:
Method Blank File ID: 11020204.D		Туре N	IBLK T B	est Code: El atch ID: MS	PA Met 12W02	hod SW82 02A	260B Analysis Date:	02/02/2011 09:53	
Sample ID: MBLK MS12W0202A	Units : µg/L		Run ID: M	SD_12_110	202A		Prep Date:	02/02/2011 09:53	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	10	)						
Methyl tert-butyl ether (MTBE)	ND	0.5	1						
Di-isopropyl Ether (DIPE)	ND	1							
Ethyl Tertiary Butyl Ether (ETBE)	ND	1							
Benzene	ND	0.5	i						
Tertiary Amyl Methyl Ether (TAME)	ND	1							
Toluene	ND	0.5							
Ethylbenzene	ND	0.5							
m,p-Xylene	ND	0.5							
0-Xylene	ND	0.5					(		
Surr: 1,2-Dichloroethane-d4	9.68		10		97	70	130		
Surr: A Bromofluorobonzono	10.5		10		105	70	130		
Sall: 4-Biomolidorobenzene	9.16		10		92	70	130		
Laboratory Control Spike		Type L	CS T	est Code: E	PA Met	hod SW82	260B		
File ID: 11020203.D			B	atch ID: <b>MS</b>	12W02	02A	Analysis Date:	02/02/2011 09:30	
Sample ID: LCS MS12W0202A	Units : µg/L		Run ID: M	SD 12 110	202A		Prep Date:	02/02/2011 09:30	
Analyte	Result	PQL	SpkVal	SokRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	val %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	79.7	10	100		20		156		
Methyl tert-butyl ether (MTRE)	89.7	0.5	100		80	44 65	130		
Di-isopropyl Ether (DIPE)	7 75	0.0	10		78	70	130		
Ethyl Tertiary Butyl Ether (ETBE)	8 13	1	10		81	65	130		
Benzene	9.63	0.5	10		96	70	130		
Tertiary Amyl Methyl Ether (TAME)	8.86	1	10		89	68	134		
Toluene	9.37	0.5	10		94	80	120		
Ethylbenzene	10	0.5	10		100	80	120		
m,p-Xylene	10.1	0.5	10		101	70	130		
o-Xylene	10.5	0.5	10		105	70	130		
Surr: 1,2-Dichloroethane-d4	9.18		10		92	70	130		
Surr: Toluene-d8	9.94		10		99	70	130		
Surr: 4-Bromofluorobenzene	9.59		10		96	70	130		
Sample Matrix Spike		Type N	IS T	est Code: El	PA Met	hod SW82	260B		
File ID: 11020218.D			Ba	atch ID: MS <sup>2</sup>	12W020	02 <b>A</b>	Analysis Date:	02/02/2011 15:20	
Sample ID: 11012804-01AMS	Units : µg/L		Run ID: M	SD_12_110	202A		Prep Date:	02/02/2011 15:20	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	/al %RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	371	25	500	0	74	41	157		
Methyl tert-butyl ether (MTBE)	41	1.3	50	ŏ	82	47	150		
Di-isopropyl Ether (DIPE)	34.4	2.5	50	Ō	69	59	139		
Ethyl Tertiary Butyl Ether (ETBE)	36.9	2.5	50	0	74	59	182		
Benzene	41.1	1.3	50	0	82	59	138		
Tertiary Amyl Methyl Ether (TAME)	40	2.5	50	0	80	63	135		
Toluene	39.5	1.3	50	0	79	68	130		
Ethylbenzene	42.1	1.3	50	0	84	68	130		
m,p-Xylene	43.2	1.3	50	0	86	68	131		
o-xylene	44.2	1.3	50	0	88	70	130		
Surr: 1,2-DICHOROETNANE-04	48		50		96	70	130		
Surr: 4 Promofluorohannan	49.5		50		99	70	130		
Sun. 4-Bromonuorobenzene	48.7		50		97	70	130		



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<b>Date:</b> 04-Feb-11	(	QC Su	ımmar	y Repor	t				Work Ord 11012804	er: 1
Sample Matrix Spike Duplicate File ID: 11020219.D		Туре М	SD T	est Code: El	PA Met	hod SW82	260B Analy	sis Date: 0	12/02/2011 15:43	
Sample ID: 11012804-01AMSD	Units : µg/L Result		Run ID: M	SD_12_110	202A		Prep	Date: (	2/02/2011 15:43	000
Tertiary Butyl Alcohol (TBA) Methyl tert-butyl ether (MTBE) Di-isopropyl Ether (DIPE) Ethyl Tertiary Butyl Ether (ETBE) Benzene Tertiary Amyl Methyl Ether (TAME) Toluene Ethylbenzene m,p-Xylene o-Xylene Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8	360 41.3 35.6 37.7 43.7 41.6 43 46.2 46.9 48.1 45.6 50.1	25 1.3 2.5 2.5 1.3 2.5 1.3 1.3 1.3 1.3	500 50 50 50 50 50 50 50 50 50 50 50 50	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	72 83 71 75 87 83 86 92 94 96 91 100	41 47 59 59 63 68 68 68 68 68 70 70 70	157 150 139 182 138 135 130 130 131 130 130 130	370.7 41.04 34.38 36.91 41.05 39.97 39.5 42.05 43.16 44.21	2.9(30) 0.5(40) 3.5(20) 2.1(40) 6.2(21) 4.0(40) 8.4(20) 9.4(20) 8.4(20) 8.5(20)	
Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	43.0 50.1 48.6		50 50 50		100 97	70 70 70	130 130			

### **Comments:**

PO Comments: Sample ID Alpha Client's COC #: 32000 Client: Billing Information : CHH11012804-05A GB-20-45-05-012611 QC Level: S3 CHH11012804-10A IDW-SOIL-012611 CHH11012804-09A GB-19-46-06-012611 CHH11012804-08A GB-19-46-04-012611 CHH11012804-06A GB-19-34-04-012611 CHH11012804-02A GB-20-39-04-012611 CHH11012804-01A GB-20-34-04-012611 CHH11012804-07A GB-19-41-04-012611 CHH11012804-04A GB-20-45-04-012611 CHH11012804-03A QCEB-012611 Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. CH2M Hill Los Angeles, CA 90017 21st Floor 1000 Wilshire Boulevard Logged in by: NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Client Security seals intact. Frozen ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 2/4/11 @ 14:21: Corrected sample ID for sample -01A due to login error. EA : Amended 2/8/11: Per email from Matt Mayry added CAM 17 to sample -10A on a 6 day TAT, Due 2/16/11. EA Sample ID = Final Rpt, MBLK, LCS, MS/MSD With Surrogates lyabith Job : AQ 01/26/11 12:20 AQ 01/26/11 09:55 so ð AQ AQ 01/26/11 09:00 AQ 01/26/11 AQ 01/26/11 Matrix Date AQ 01/26/11 12:25 ð Signatu 01/26/11 09:50 01/26/11 13:30 KMEP Norwalk 01/26/11 01/26/11 Collection No. of Bottles Report Attention Daniel Jablonski Vladimir Carino 08:30 11:30 11:55 09:15 CHAIN-OF-CUSTODY RECORD (d cox 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 Alpha Sub <del>1</del>6 ω ω თ თ ω ω ω ~ 1 TEL: (775) 355-1044 FAX: (775) 355-0406 0 Alpha Analytical, Inc. 0 0 0 0 0 0 0 0 0 (213) 228-8271 x Phone Number (213) 228-8271 x TAT ດ თ ი ი თ თ თ თ თ ი CAM\_17\_TT LC METALS\_S P\_MOIST Elizabeth Hdcox daniel.jablonski@ch2m.com Percent Moisture vladimir.carino@ch2m.com EMail Address Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other Print Name Fuel Product TPH/E S TPH/E\_W TPHE(0.10) **TPHE(0.10) TPHE**(0.10) TPHE(0.10) TPHE(0.10) TPHE(0.10) TPHE(0.10) TPHE(0.10) TPHE(0.10) Requested Tests TPH/P\_S TPH/P\_W GAS-C Report Due By : 5:00 PM On : 07-Feb-2011 EDD Required : Yes Due: 2/16/1 WorkOrder: CHHL11012804 CA Sampled by : Matt Mayry TPHE(0.10) TPHE(0.10) TPHE(0.10) TPHE(0.10) TPHE(0.10) **TPHE(0.10)** TPHE(0.10) TPHE(0.10) TPHE(0.10) Cooler Temp Alpha Analytical, Inc. 2°C BTEX/OXY\_C VOC\_S Company ANENDED #2 TPHE(0.10) Samples Received TPHE(0.10) All voas received contain air **TPHE(0.10) TPHE(0.10)** TPHE(0.10) VOC\_W TPHE(0.10) TPHE(0.10) **TPHE(0.10)** TPHE(0.10) 28-Jan-2011 Report on a dry weight basis. (3) 4 oz. jars 2.8.11 1201 Sample Remarks bubbles > 6mm. MS/MSD Date/Time 08-Feb-2011 Date Printed

Alpha Client: Sample ID P0 ... **Billing Information :** CHH11012804-11A QCTB-012611 Client's COC #: 32000 Comments: QC Level: S3 Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. CH2M Hill Los Angeles, CA 90017 21st Floor 1000 Wilshire Boulevard Logged in by: NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Security seals intact. Frozen ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 2/4/11 @ 14:21: Corrected sample ID for sample -01A due to login error. EA : Amended 2/8/11: Per email from Matt Mayry added CAM 17 to sample -10A on a 6 day TAT, Due 2/16/11. EA Sample ID Client = Final Rpt, MBLK, LCS, MS/MSD With Surrogates ("Ino buth Id con Job : Signature AQ 01/26/11 00:00 Matrix Date KMEP Norwalk Collection No. of Bottles Report Attention Vladimir Carino Daniel Jablonski CHAIN-OF-CUSTODY RECORD 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 N Alpha Sub TEL: (775) 355-1044 FAX: (775) 355-0406 0 Alpha Analytical, Inc. Phone Number (213) 228-8271 x (213) 228-8271 x TAT თ METALS\_S P\_MOIST TPH/E\_S Elizabeth HdCax daniel.jablonski@ch2m.com vladimir.carino@ch2m.com EMail Address Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other **Print Name** TPH/E\_W TPH/P\_S TPH/P\_W VOC\_S **Requested Tests** Report Due By : 5:00 PM On : 07-Feb-2011 WorkOrder: CHHL11012804 EDD Required : Yes CA Sampled by : Matt Mayry Cooler Temp Alpha Analytical, Inc. 2°C Company AMENDED #2 Samples Received TPHE(0.10) VOC\_W 28-Jan-2011 2 Reno Trip Blanks (1) 11/22/10 (1) 12/21/10 2.8.11 Sample Remarks Date/Time 08-Feb-2011 Date Printed 20

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re clanda	Alpha	Analyt	ical, In	. 00/11-57	70	¥	orkO	rder :	CHHL11	012804		
TEL:	: (775) 355-	-1044 FAX	: (775) 355-	0406		Rep	ort Du	e By : 5	:00 PM 0	n: 07-Feb-2011		
tion	Phone N	umber	EMail /	Address		l						
ski	(213) 228	-8271 x	daniel.jal	olonski@ch	2m.com							
no	(213) 228	-8271 x	vladimir.	carino@ch	2m.com	E	DD Requ	uired : Yes	-			
							Sample	d by : Ma	t Mayry			
							Cooler	Temp	Samples Rece	ived Date Printed		
₹							ы	°C C	28-Jan-201	1 04-Feb-201		
rogates												
					Request	ted Tests						
No.ofBo Alpha S	ottles Sub TA1	P_MOIST	TPH/E_S	TPH/E_W	TPH/P_S	TPH/P_W	voc_s	VOC_W		Sample Remarks		
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ω	0	Percent Moisture	Fuel Product		GAS-C		BTEX/OXY C			teport on a dry weight basis. (3) 4 oz. jars		
wo analyse	s in order to	<u>o achieve lov</u>	/er reporting	limits for a	ll other ana	lytes due to	high TBA	values. An	ended 2/4/11 @	14:21: Corrected sample		
			P	int Name	) J			Compai	Ŷ	Date/Time		
Con			zab	5	Da	Cox	A	pha Analyti	cal, Inc.	2.4-11 1423		
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Alpha       Alpha       S5 Glendale Avenue,       TEL: $(775) 355$ TEL: $(775) 355$ no       (213) 228       no       No. of Bottles       No. of Bottles       Alpha     Sub       Togates       Ik	Alpha Analyt         Alpha Analyt         Siti C11 Analyt         TEL: (775) 355-1044 FAX         TEL: (775) 355-1044 FAX         TEL: (775) 355-1044 FAX         No. of Bottles         P_MOIST         No. of Bottles       P_MOIST         Alpha Sub TAT       P_MOIST         B	Ally-CUSICUSICUSICUSICUSICUSICUSICUSICUSICUSI	Alpha Analytical, Inc.         S5 Glendale Avenue, Suite 21 Sparks, Nevada 89431-57         TEL: (775) 355-1044       FAX: (775) 355-0406         Bin       Phone Number       EMail Address         ski       (213) 228-8271       x       daniel jablonski@ch         no       (213) 228-8271       x       vladimir.carino@ch         no       (213) 228-8271       x       vladimir.carino@ch         no       (213) 228-8271       x       vladimir.carino@ch         No. of Bottles       P_MOIST       TPHIE_S       TPHIE_N         No. of Bottles       P_MOIST       TPHIE_S       TPHIE_N         No. of Bottles       Fall       O       G       TPHIE_N         No. of Bottles       O       G       TPHIE_S       TPHIE_N         No. of Bottles       O       G       TPHIE_N       TPHIE_N         No. of G       O       G       TPHIE_N       TPHIE_N         R       O       G       Pret	Alpha Analytical, Inc.         Alpha Analytical, Inc.         SS Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778         TEL: (775) 355-1044       FAX: (775) 355-0406         Inc.       Phone Number       EMail Address         ski       (213) 228-8271 x       vladimir.carino@ch2m.com         no       (213) 228-8271 x       vladimir.carino@ch2m.com         no       (213) 228-8271 x       vladimir.carino@ch2m.com         No. of Bottles       Request         No. of Bottles       Pumots       Request         No. of Bottles       Pumots       TPHE[0.10]         State of the formation	Alpha Analytical, Inc.         Alpha Analytical, Inc.         So Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778       Rep         TEL: (775) 355-1044       FAX: (775) 355-0406       Rep         Itel: (775) 355-1044       FAX: (775) 355-0406       Rep         Itel: (715) 228-8271 x       daniel jablonski@ch2m.com       E         Requested Tess         No. of Bottles       P_MOIST       TPH/E_S       TPH/E_W       TPH/E_S       Requested Tests         No. of Bottles       P_MOIST       TPH/E_N       Phone Tests         No. of Bottles       P_MOIST       TPH/E_S       TPH/E_N       Phone Tests         No. of Bottles       P_MOIST       TPH/E_N       Physical Posts         No. of Bottles       P_MOIST       TPH/E_N       Physical Posts         No. of Bottles       P_MOIST       TPH/E_N       PHIE0.10)         10       PHIE0.10)       IPHE0.10)         11       PHIE0.10) <th cols<="" td=""><td>Alpha Analytical, Inc.       WorkO         Si Clendale Avenue, Suite 21 Sparks, Nevada 89431-5778       Report Du         TEL: (775) 355-1044 FAX: (775) 355-046       WorkO         Intel: (775) 355-1044 FAX: (775) 355-046       Report Du         Intel: (715) 238-8271 x       daniel,jablonski@ch2m.com       EDD Requested Tests         No. of Bottles       Nuple       Sample         No. of Bottles       Requested Tests         No. of Bottles       No. of Bottles       No. of Precent Precision       Precent Precision       Precent Precision         Precent FealPredact       <th colspa<="" td=""><td>Alpha Analytical, Inc.       WorkOrder:         Solendale Avenue, Suite 21 Sparks, Nevada 89431-5778       Report Due By : 5:         TEL: (775) 355-1044       FAX: (775) 355-0406         Emport Due By : 5:         Solendale Avenue, Suite 21 Sparks, Nevada 89431-5778       Report Due By : 5:         Suite 21 Sparks, Nevada 89431-5778       Report Due By : 5:         Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Solendae Avenue, Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Suite 21 Sparks, Nevada 89431-5778       Ended Tests       Sampled by : Mat         Suite 3 Solendae       Intrincom       2 oc         No of Bottles       Note: Temp       Woc.5       Voc.W         Note: Total State       Note: Temp       Woc.5       Voc.W         Note: Total State       Printe(0.10)       Intel(0.10)         Temp</td><td>Alpha Analytical, Inc.       WorkOrder : CHHL11         So Glendale Avenue, Suite 21 Sparks, Novada 89431-5778       Report Due By : 5:00 PM O         TEL: (775) 353-046       Report Due By : 5:00 PM O         ion       Phone Number       EMail Address         site 21 Sparks, Novada 89431-5778       Report Due By : 5:00 PM O         TEL: (775) 353-046       EDD Required : Yes         sampled by : Matt Mayry         Cooler Temp       Samples Reg         Tel: (775) 328-8271 × vladimir.carinio@ch2m.com       EDD Required : Yes         Sampled by : Matt Mayry         Cooler Temp       Samples Reg         10 6       TPHE_N       Requested Tests         No of 6       TPHE_N       THEQ.10       TPHE.010         Regression       THEQ.10       THEQ.10         THEQ.10       THEQ.10         THEQ.10       THEQ.10         THE       Samples Reg         2       Salan-201</td></th></td></th>	<td>Alpha Analytical, Inc.       WorkO         Si Clendale Avenue, Suite 21 Sparks, Nevada 89431-5778       Report Du         TEL: (775) 355-1044 FAX: (775) 355-046       WorkO         Intel: (775) 355-1044 FAX: (775) 355-046       Report Du         Intel: (715) 238-8271 x       daniel,jablonski@ch2m.com       EDD Requested Tests         No. of Bottles       Nuple       Sample         No. of Bottles       Requested Tests         No. of Bottles       No. of Bottles       No. of Precent Precision       Precent Precision       Precent Precision         Precent FealPredact       <th colspa<="" td=""><td>Alpha Analytical, Inc.       WorkOrder:         Solendale Avenue, Suite 21 Sparks, Nevada 89431-5778       Report Due By : 5:         TEL: (775) 355-1044       FAX: (775) 355-0406         Emport Due By : 5:         Solendale Avenue, Suite 21 Sparks, Nevada 89431-5778       Report Due By : 5:         Suite 21 Sparks, Nevada 89431-5778       Report Due By : 5:         Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Solendae Avenue, Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Suite 21 Sparks, Nevada 89431-5778       Ended Tests       Sampled by : Mat         Suite 3 Solendae       Intrincom       2 oc         No of Bottles       Note: Temp       Woc.5       Voc.W         Note: Total State       Note: Temp       Woc.5       Voc.W         Note: Total State       Printe(0.10)       Intel(0.10)         Temp</td><td>Alpha Analytical, Inc.       WorkOrder : CHHL11         So Glendale Avenue, Suite 21 Sparks, Novada 89431-5778       Report Due By : 5:00 PM O         TEL: (775) 353-046       Report Due By : 5:00 PM O         ion       Phone Number       EMail Address         site 21 Sparks, Novada 89431-5778       Report Due By : 5:00 PM O         TEL: (775) 353-046       EDD Required : Yes         sampled by : Matt Mayry         Cooler Temp       Samples Reg         Tel: (775) 328-8271 × vladimir.carinio@ch2m.com       EDD Required : Yes         Sampled by : Matt Mayry         Cooler Temp       Samples Reg         10 6       TPHE_N       Requested Tests         No of 6       TPHE_N       THEQ.10       TPHE.010         Regression       THEQ.10       THEQ.10         THEQ.10       THEQ.10         THEQ.10       THEQ.10         THE       Samples Reg         2       Salan-201</td></th></td>	Alpha Analytical, Inc.       WorkO         Si Clendale Avenue, Suite 21 Sparks, Nevada 89431-5778       Report Du         TEL: (775) 355-1044 FAX: (775) 355-046       WorkO         Intel: (775) 355-1044 FAX: (775) 355-046       Report Du         Intel: (715) 238-8271 x       daniel,jablonski@ch2m.com       EDD Requested Tests         No. of Bottles       Nuple       Sample         No. of Bottles       Requested Tests         No. of Bottles       No. of Bottles       No. of Precent Precision       Precent Precision       Precent Precision         Precent FealPredact <th colspa<="" td=""><td>Alpha Analytical, Inc.       WorkOrder:         Solendale Avenue, Suite 21 Sparks, Nevada 89431-5778       Report Due By : 5:         TEL: (775) 355-1044       FAX: (775) 355-0406         Emport Due By : 5:         Solendale Avenue, Suite 21 Sparks, Nevada 89431-5778       Report Due By : 5:         Suite 21 Sparks, Nevada 89431-5778       Report Due By : 5:         Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Solendae Avenue, Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Suite 21 Sparks, Nevada 89431-5778       Ended Tests       Sampled by : Mat         Suite 3 Solendae       Intrincom       2 oc         No of Bottles       Note: Temp       Woc.5       Voc.W         Note: Total State       Note: Temp       Woc.5       Voc.W         Note: Total State       Printe(0.10)       Intel(0.10)         Temp</td><td>Alpha Analytical, Inc.       WorkOrder : CHHL11         So Glendale Avenue, Suite 21 Sparks, Novada 89431-5778       Report Due By : 5:00 PM O         TEL: (775) 353-046       Report Due By : 5:00 PM O         ion       Phone Number       EMail Address         site 21 Sparks, Novada 89431-5778       Report Due By : 5:00 PM O         TEL: (775) 353-046       EDD Required : Yes         sampled by : Matt Mayry         Cooler Temp       Samples Reg         Tel: (775) 328-8271 × vladimir.carinio@ch2m.com       EDD Required : Yes         Sampled by : Matt Mayry         Cooler Temp       Samples Reg         10 6       TPHE_N       Requested Tests         No of 6       TPHE_N       THEQ.10       TPHE.010         Regression       THEQ.10       THEQ.10         THEQ.10       THEQ.10         THEQ.10       THEQ.10         THE       Samples Reg         2       Salan-201</td></th>	<td>Alpha Analytical, Inc.       WorkOrder:         Solendale Avenue, Suite 21 Sparks, Nevada 89431-5778       Report Due By : 5:         TEL: (775) 355-1044       FAX: (775) 355-0406         Emport Due By : 5:         Solendale Avenue, Suite 21 Sparks, Nevada 89431-5778       Report Due By : 5:         Suite 21 Sparks, Nevada 89431-5778       Report Due By : 5:         Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Solendae Avenue, Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Suite 21 Sparks, Nevada 89431-5778       Ended Tests       Sampled by : Mat         Suite 3 Solendae       Intrincom       2 oc         No of Bottles       Note: Temp       Woc.5       Voc.W         Note: Total State       Note: Temp       Woc.5       Voc.W         Note: Total State       Printe(0.10)       Intel(0.10)         Temp</td> <td>Alpha Analytical, Inc.       WorkOrder : CHHL11         So Glendale Avenue, Suite 21 Sparks, Novada 89431-5778       Report Due By : 5:00 PM O         TEL: (775) 353-046       Report Due By : 5:00 PM O         ion       Phone Number       EMail Address         site 21 Sparks, Novada 89431-5778       Report Due By : 5:00 PM O         TEL: (775) 353-046       EDD Required : Yes         sampled by : Matt Mayry         Cooler Temp       Samples Reg         Tel: (775) 328-8271 × vladimir.carinio@ch2m.com       EDD Required : Yes         Sampled by : Matt Mayry         Cooler Temp       Samples Reg         10 6       TPHE_N       Requested Tests         No of 6       TPHE_N       THEQ.10       TPHE.010         Regression       THEQ.10       THEQ.10         THEQ.10       THEQ.10         THEQ.10       THEQ.10         THE       Samples Reg         2       Salan-201</td>	Alpha Analytical, Inc.       WorkOrder:         Solendale Avenue, Suite 21 Sparks, Nevada 89431-5778       Report Due By : 5:         TEL: (775) 355-1044       FAX: (775) 355-0406         Emport Due By : 5:         Solendale Avenue, Suite 21 Sparks, Nevada 89431-5778       Report Due By : 5:         Suite 21 Sparks, Nevada 89431-5778       Report Due By : 5:         Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Solendae Avenue, Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Suite 21 Sparks, Nevada 89431-5778       EDD Required : Yes         Suite 21 Sparks, Nevada 89431-5778       Ended Tests       Sampled by : Mat         Suite 3 Solendae       Intrincom       2 oc         No of Bottles       Note: Temp       Woc.5       Voc.W         Note: Total State       Note: Temp       Woc.5       Voc.W         Note: Total State       Printe(0.10)       Intel(0.10)         Temp	Alpha Analytical, Inc.       WorkOrder : CHHL11         So Glendale Avenue, Suite 21 Sparks, Novada 89431-5778       Report Due By : 5:00 PM O         TEL: (775) 353-046       Report Due By : 5:00 PM O         ion       Phone Number       EMail Address         site 21 Sparks, Novada 89431-5778       Report Due By : 5:00 PM O         TEL: (775) 353-046       EDD Required : Yes         sampled by : Matt Mayry         Cooler Temp       Samples Reg         Tel: (775) 328-8271 × vladimir.carinio@ch2m.com       EDD Required : Yes         Sampled by : Matt Mayry         Cooler Temp       Samples Reg         10 6       TPHE_N       Requested Tests         No of 6       TPHE_N       THEQ.10       TPHE.010         Regression       THEQ.10       THEQ.10         THEQ.10       THEQ.10         THEQ.10       THEQ.10         THE       Samples Reg         2       Salan-201

Jan-2011 04-Feb-2011 Sample Remarks 2 Reno Trip Blanks (1) 11/22/10 (1) 12/21/10	оС 28 Voc_w 28	voc_s	ed Tests TPH/P_W	Request TPH/P_S	E_S TPH/E_W	OIST	6 TA TA P	ates of Bottles 0	P Norwalk With Surroga ate Alph 3:00 2	ob : KME Coll AQ 01/2 00	le ID -012611	32000 = Fir Sampl 11A QCTB	PO : Client's COC # : QC Level : S3 Alpha Sample ID CHH11012804-1
/ry les Received Date Printed	red : Yes by : Matt May emp Samp	)D Requi Sampled <u>Cooler T</u>	EI	h2m.com 12m.com	sl.jablonski@cl mir.carino@ch	c vladi	) 228-8271	(213	iel Jablonski limir Carino	Dan Vlac		e Boulevard , CA 90017	CH2M Hill 1000 Wilshiri 21st Floor Los Angeles, PO :
HL11012804 M On : 07-Feb-2011	der : CH By : 5:00 F	orkOr ort Due	W	178	<b>Inc.</b> vada 89431-57 i55-0406 all Address	ytical, Sparks, Ne AX: (775) 3	ha Anal mue, Suite 21 355-1044 H	Alp ilendale Ave TEL: (775) Pho	255 ( 275 Attention	Rep			Client:

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Logged in by: < Contraction of the second se T 

w hat hat	Signatury
Flizabeth Fldrox	Print Name
Alpha Analytical, Inc.	Company
1.28.11 1727	Date/Time

Security seals intact. Frozen ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. :

**Comments:** 

PO:							Cooler Temp	Samples Received	Date Printed
Client's COC #: 32	000	Job : KMEP No	rwalk				2 °C	28-Jan-2011	28-Jan-2011
QC Level: S3	= Final Rpt, MBLK, L0	CS, MS/MSD With	Surrogates						
						<b>Requested Test</b>			
Alpha	Client	Collectio	n No. of Bottles	P_MOIST	TPH/E_S TPH/E_W	TPH/P_S TPH/P_V	V VOC_S VOC_N	<	
Sample ID	Sample ID	Matrix Date	Alpha Sub T/	A				Samp	ple Remarks
CHH11012804-01A	GB-20-34-04-012511	AQ 01/26/11 08:30	16 0 (	б 	TPHE(0.10)	TPHE(0.10	)) TPHE(0.1	All voas re     bubt	ceived contain air oles > 6mm.
CHH11012804-02A	GB-20-39-04-012611	AQ 01/26/11 09:00	8	0	<b>TPHE</b> (0.10)	<b>TPHE</b> (0.10	)) TPHE(0.1		
CHH11012804-03A	QCEB-012611	AQ 01/26/11 09:15	6 0	6	TPHE(0.10)	TPHE(0.1	)) TPHE(0.1		
CHH11012804-04A	GB-20-45-04-012611	AQ 01/26/11 09:50	7 0 0	6	TPHE(0.10)	TPHE(0.1	0) TPHE(0.1		
CHH11012804-05A	GB-20-45-05-012611	AQ 01/26/11 09:55	7 0 0	6	TPHE(0.10)	TPHE(0.1	))   TPHE(0.1	[0]	
CHH11012804-06A	GB-19-34-04-012611	AQ 01/26/11 11:30	8	6	<b>TPHE</b> (0.10)	TPHE(0.1	0) TPHE(0.1		
CHH11012804-07A	GB-19-41-04-012611	AQ 01/26/11 11:55	8 0	Ø	TPHE(0.10)	TPHE(0.1	0) TPHE(0.1	[0]	
CHH11012804-08A	GB-19-46-04-012611	AQ 01/26/11 12:20	6 0	6	TPHE(0.10)	TPHE(0.1	0) TPHE(0.1		
CHH11012804-09A	GB-19-46-06-012611	AQ 01/26/11 12:25	8 0	0	TPHE(0.10)	TPHE(0.1	3) TPHE(0.1		MS/MSD
CHH11012804-10A	IDW-SOIL-012611	SO 01/26/11 13:30	3	6 Percent Moisture	Fuel Product	GAS-C	BTEX/OXY C	Report obasis.	on a dry weight (3) 4 oz. jars

# CHAIN-OF-CUSTODY RECORD

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Alpha Analytical, Inc.

Page: 1 of 2

Billing Information :

Client:

Report Attention

Phone Number (213) 228-8271 x (213) 228-8271 x

EMail Address

Report Due By: 5:00 PM On: 07-Feb-2011

WorkOrder: CHHL11012804

CA A

daniel.jablonski@ch2m.com vladimir.carino@ch2m.com

EDD Required : Yes

Sampled by : Matt Mayry

Date Printed

Vladimir Carino Daniel Jablonski

CH2M Hill

Los Angeles, CA 90017

21st Floor

1000 Wilshire Boulevard

IEL	: (775) 355-1044 FA	X: (775) 355-0406	Repor	rt Due By : 5:	:00 PM On : 0	07-Feb-2011
Report Attention	Phone Number	EMail Address				
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m	1.com			
Vladimir Carino	(213) 228-8271 x	vladimir.carino@ch2m.	.com EDI	D Required : Yes		
				Sampled by : Mat	tt Mayry	
				Cooler Temp	Samples Received	Date Printed
: KMEP Norwalk				2 °C	28-Jan-2011	28-Jan-2011
MS/MSD With Surrogates						
Collection No. of Bo	ottles P Mois	T TPH/E S TPH/E W T	Requested Tests	VOC S VOC_W		
Matrix Date Alpha S	Sub TAT		1		Sam	nple Remarks
AQ 01/26/11 2 00:00	0			TPHE(0.10)	2 Reno 11/22/	o Trip Blanks (1) /10 (1) 12/21/10
ce. Analysts: Run two analyse	s in order to achieve lo	wer reporting limits for all c Print Name	ther analytes due to hi	igh TBA values. : Compan	₹	Date/Time
	TEL Report Attention Daniel Jablonski Vladimir Carino Vladimir Carino KMEP Norwalk MS/MSD With Surrogates Collection No. of Br Aatrix Date Alpha S AQ 01/26/11 2	TEL: (775) 355-1044       FA         Report Attention       Phone Number         Daniel Jablonski       (213) 228-8271       x         Vladimir Carino       (213) 228-8271       x         Vladimir Carino       (213) 228-8271       x         MS/MSD With Surrogates	TEL: (775) 355-1044       FAX: (775) 355-0406         Report Attention       Phone Number       EMail Address         Daniel Jablonski       (213) 228-8271       x       daniel.jablonski@ch2m         Vladimir Carino       (213) 228-8271       x       vladimir.carino@ch2m         Vladimir Carino       (213) 228-8271       x       vladimir.carino@ch2m         MS/MSD With Surrogates       F       F       F         Collection       No. of Bottles       F       F         AQ       01/26/11       2       0       6       Image: Collection image: Co	TEL: (775) 355-1044       FAX: (775) 355-0406       Repoi         Report Attention       Phone Number       EMail Address       Repoi         Daniel Jablonski       (213) 228-8271       x       daniel.jablonski@ch2m.com       ED)         Vladimir Carino       (213) 228-8271       x       vladimir.carino@ch2m.com       ED)         Vladimir Carino       (213) 228-8271       x       vladimir.carino@ch2m.com       ED)         MS/MSD With Surrogates       F_MOIST       TPH/E_S       TPH/E_W       TPH/P_W         AQ       01/26/11       2       0       6	TEL: (775) 355-1044       FAX: (775) 355-0406       Report Due By : 5:         Report Attention       Phone Number       EMail Address         Daniel Jablonski       (213) 228-8271 x       daniel.jablonski@ch2m.com       EDD Required : Yes         Vladimir Carino       (213) 228-8271 x       vladimir.carino@ch2m.com       EDD Required : Yes         Vladimir Carino       (213) 228-8271 x       vladimir.carino@ch2m.com       EDD Required : Yes         Vladimir Carino       (213) 228-8271 x       vladimir.carino@ch2m.com       Sampled by : Mat         Vs:       KMEP Norwalk       2 °C       2 °C         MS/MSD With Surrogates       P_MOIST       TPH/E_S       TPH/F_W       Voc_s       voc_w         Aq       01/26/11       2       0       6       P_MOIST       TPH/E_W       TPH/F_W       TPH/F_W       Voc_s       voc_w	TEL: (775) 355-1044       FAX: (775) 355-0406       Report Due By : 5:00 PM On :         Connel Jablonski       (213) 228-8271 x       daniel.jablonski@ch2m.com       EDD Required : Yes         Vladimir Carino       (213) 228-8271 x       vladimir.carino@ch2m.com       EDD Required : Yes         Vladimir Carino       (213) 228-8271 x       vladimir.carino@ch2m.com       EDD Required : Yes         Vladimir Carino       (213) 228-8271 x       vladimir.carino@ch2m.com       EDD Required : Yes         Sampled by : Matt Mayry       Cooler Temp       Samples Received         MS/MSD With Surrogates       P.MOIST       TPH/E_S       TPH/P_W       Voc_s       voc_W       San         Aq       01/26/11       2       0       6       P.MOIST       TPH/E_S       TPH/P_W       Verte(0.10)       2 Requested Tests         AQ       01/26/11       2       0       6       P.MOIST       TPH/P_S       TPH/P_W       Voc_s       Voc_M       San

Billing Information :

CHAIN-OF-CUSTODY RECORD

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

Alpha Analytical, Inc.

WorkOrder: CHHL11012804

C A

Page: 2 of 2

Billing Information: Company Name Direct bill Kinker Margan Attn: att, Dan Jablanski / Chamiltell	Alpha Anal 255 Giendale Av Sparks, Nevada Phone (775) 35	Samples Collecte       Venue, Suite 21       A89431-5778       55-1044	ed From Which State?
City, State, Zip Phone Number 818-357-36 Fax 714-424-2134	Fax (775) 355-(	0406	ses Required
Consultant/Client Name M Dan Jablans & Job #	Junch Link to Kindan Margan Job Na	IMEP Norver KJE & &	Data Validation
Address Wilkhre Blui Floor 21 Name	Report Attention / Project Man		
City State, Zip Los Anactes, CA 9007 Email:		the set	
Time Date Society P.O. # Phone:	Mobile:	HA WAY	Giobal  D #
Sampled Sampled Below Lab ID Number (Use Only)	Sample Description	TAT Filtered # Containers**   BS   Fr   Fr	/ / REMARKS
0830 1-200 AB (CHH 1101 2804-01 68-	113elo-Ho-he-he-he	XXX Not 21	Somert in sample
3900 1 1 1 m m m m m m m m m m m m m m m m	20-39-04-012611	8 VOA5 1 1 1	
MIS 1 1 - 03 QCE	119610-20	6 VOAS	
-0466-	11 Jero-h0-54-01	7 Wals	
0955 1 1 N Z J KB-1	20-42-05-012611	FVOAs	
130 Sologe	12-34-04-012611	8 VOAs	
1.55 1 1	119610-00-11-6	S NON S	
	117510-30-34-54	6 Mar	McImen
$(350 \forall si)$ - 10 IM	1-sey1-012611	3 iš XXX	
- 1-26 AQ - 11 QC	TB-012611 (trip blank)	a War X	
ADDITIONAL INSTRUCTIONS:			
I, (field sampler), attest to the validity and authenticity of this si grounds for legal action (NAC 445.0636 (c) (2)). Sampled By:	ample tam was that tampering with or inte	entionally mislabeling the sample location, date or t	ime of collection is considered fraud and may b
Relinquished by (appendix Affiliation)	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Mon Alpha Amistrad 1	Date: Time: $1/27/11$ $1/27$
Relinquished by: (Signaturitation)	Received Av: (Signature/Affiliat	the Alger Allow	Date: Time:
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliat	tion)	Date: Time: