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**INTERIM REMOVAL ACTION PLAN
ASHLAND HOUSING PROJECT
16305, 16309, 16325, 16327, 16331, 16333 KENT AVENUE
AND 16375 EAST 14TH STREET
ASHLAND, CALIFORNIA
GEOTRACKER GLOBAL ID #: T1000005055**

PREPARED FOR:

Resources for Community Development
2220 Oxford Street
Berkeley, California 94704

PREPARED BY:

Ninyo & Moore
Geotechnical and Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612

November 26, 2013
Project No. 402090002

November 26, 2013
Project No. 402090002

Mr. Brian Saliman
Resources for Community Development
2220 Oxford Street
Berkeley, California 94704

Subject: Interim Removal Action Plan
Ashland Housing Project
16305, 16309, 16325, 16327, 16331, and 16333 Kent Avenue
And 16375 East 14th Street
Ashland, California

Dear Mr. Saliman:

Ninyo & Moore is pleased to present this Interim Removal Action Plan (IRAP) for the above-referenced site in accordance with the authorization of Resources for Community Development (RCD). This IRAP summarizes the previous findings, opinions, and conclusions regarding the environmental status of the above-referenced property as presented in Ninyo & Moore's Phase II Environmental Site Assessment (ESA) dated July 9, 2013 and Ninyo & Moore's Supplemental Phase II ESA dated September 9, 2013. This IRAP also includes results of supplemental sampling performed at the request of Alameda County Environmental Health and to complete delineation of impacted soil.

We appreciate the opportunity to be of service to you on this project.

Sincerely,
NINYO & MOORE



Peter Sims
Project Environmental Geologist



Kris M. Larson, PG
Principal Environmental Geologist

PDS/KML/caa

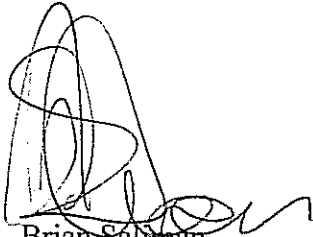
Distribution: (1) Addressee
(1) Mr. Jerry Wickham, Alameda County Environmental Health

November 26, 2013
Project No. 402090002

To: Mr. Brian Saliman
Resources for Community Development
2220 Oxford Street
Berkeley, California 94704

Re: Perjury Statement
Interim Remedial Action Plan
16305, 16309, 16325, 16327, 16331, and 16333 Kent Avenue
and 16375 East 14th Street
Ashland, California 93245

I declare, under penalty of perjury, that the information or recommendations contained in the attached report are true or correct to the best of my knowledge.

A handwritten signature in black ink, appearing to read "Brian Saliman", written over a faint, circular stamp or watermark.

Brian Saliman
Resources for Community Development

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1. INTRODUCTION

Ninyo & Moore was retained by Resources for Community Development (RCD) to prepare an Interim Removal Action Plan (IRAP) for the property located at 16305, 16309, 16325, 16327, 16331, and 16333 Kent Avenue and 16375 East 14th Street in the unincorporated community of Ashland, Alameda County, California (site). This IRAP has been prepared based on comments received from Alameda County Environmental Health (ACEH) during a site meeting on September 10, 2013. The IRAP supports the redevelopment of the subject site by RCD.

2. PURPOSE

This report evaluates the occurrence, magnitude, and significance of environmental contamination resulting from activities of historic site occupants. The evaluation is followed by an interim plan for removal action.

3. BACKGROUND

3.1. Site Description

The site is a approximately two-acres in area and occupied by one two-storey residence (a converted barn) and six single-storey residences comprising approximately 8,000 square-foot of building space, 740 square-foot of shower/bathroom buildings, a carport, multiple mobile homes, several storage sheds, asphalt and gravel driveways, and parking areas. The site is located in a mixed commercial/residential area of Ashland. The site is bordered by a youth center to the northwest, East 14th Street to the northeast, Kent Avenue to the east, residential properties to the south, and baseball fields to the west.

3.2. Topography

According to United States Geological Survey (USGS) 7.5-Minute Series Topographic Map, Hayward, California; the surface elevation at the site is approximately 43 feet above mean sea level (msl). Overall, regional surface slope is towards the northwest.

3.3. Site Geology and Sedimentology

The site is located in the California Coast Range Geologic Province and is underlain by the Franciscan Complex and the Salinian Block. The Salinian block is composed of granitic and metamorphic rocks, overlain by Cretaceous and Cenozoic sedimentary rocks. The Franciscan complex is composed of oceanic crust material and sedimentary rocks of the late Jurassic and Cretaceous age.

Based on field observations made during the previous Phase II Environmental Site Assessment (ESA) and the review of boring logs, material encountered beneath the paved surface on site is primarily silty or sandy clay to a maximum explored depth of 51.5 feet below ground surface (bgs). Copies of the soil boring logs for previous geotechnical and environmental borings (B-1 through B-3, OG2 and CP2) as well as borings C1 and U1 are presented in Appendix A.

3.4. Site Hydrogeology

Groundwater was encountered during the previous Phase II ESA in borings OG2 and CP2 at approximately 6 and 8 feet bgs, respectively. The groundwater flow direction is anticipated to be towards the northwest, following the topography of the area. According to the Regional Water Quality Control Board (RWQCB), Water Quality Control Plan for the San Francisco Basin, the site is located in the East Bay Plan Sub-basin of the Santa Clara Valley Basin.

3.5. Surface Water Bodies

Lake Chabot is the closest surface water body and is located approximately 2 miles north-east of the site. San Francisco Bay is located approximately 4 miles west of the site.

3.6. Previous Environmental Investigations

Multiple previous environmental investigations have been performed at the site including Phase I and Phase II ESAs.

3.6.1. Phase I ESAs

Previous Phase I ESA environmental investigations performed at the site were conducted by RGA Environmental (2011) and Belinda P. Blackie, PE, REA (2012a and 2012b). These Phase I ESAs reported that the site was first occupied by field crops and orchards as early as the late 1930s until the early 1950s. Site structures were constructed from as early as the 1930s to the early 1990s, the carport structure was built in the late 1940s to early 1950s, and the trailer park and associated showers/bathrooms were constructed as early as 1954.

Based on the Phase I ESAs, the following Recognized Environmental Conditions (RECs) were identified:

- One rusted 55-gallon drum, several containers of paint thinner, and an abandoned vehicle in the overgrown area south of the building on the 16325 Kent Avenue property;
- One 55-gallon drum leaking a tar-like substance and several containers of unidentified oily material located in the carport area in the northwestern portion of the site;
- Potential heating oil underground storage tanks (USTs) at 16325, 16327, and 16331 Kent Avenue; and
- Lead (from lead based paint) and pesticides (from previous agricultural use) in site soils.

In addition, a 2-foot diameter water cistern west of the 16309 Kent Avenue building, a potential water well at 16331 Kent Avenue, and a former UST southwest of the barn building were identified in the Phase I ESAs, but were not listed as RECs.

Based on the RECs discussed above, Ninyo & Moore conducted a series of Phase II ESAs. A summary of the Phase II ESAs are discussed below.

3.6.2. Phase II ESA and Supplemental Phase II ESA

Based on the RECs identified in the Phase I ESAs, Ninyo & Moore performed a Phase II ESA dated July 9, 2013 and Supplemental Phase II ESA dated September 9, 2013. A

limited site reconnaissance was included during the July 9th Phase II ESA to evaluate the potential presence of USTs at the site. No evidence of USTs including: vent pipes, fill pipes, or access ways was observed at the time of the limited site reconnaissance. Ninyo & Moore advanced a total of 56 borings during the two ESAs for the purpose of evaluating soil impacts relating to site RECs (Figures 2 through 5). Two borings were also advanced to groundwater for the collection of groundwater samples (Figure 2). Reported concentrations of constituents of concern (COCs) in soil and groundwater samples were below the May 2013 San Francisco Bay RWQCB Environmental Screening Levels (ESLs), Shallow Soils (≤ 3 m bgs) where groundwater is a current or potential source of drinking water (Table A ESLs) or the proposed upper estimate for background arsenic within undifferentiated urban flatland soils (Duverge, 2011), with the exception of three areas, including the Carport Area, and two areas in the vicinity of 16331 Kent Avenue, which are discussed below.

Carport Area – Boring CP3

The soil sample collected from boring CP3 at 0 to 1 feet bgs had reported concentrations of total petroleum hydrocarbons (TPH) as diesel (d), TPH as motor oil (mo), and lead (at 840 milligrams per kilogram [mg/kg], 1,500 mg/kg, and 320 mg/kg, respectively) above the Table A ESLs (Figure 3, Tables 1 and 2). The soil sample collected from boring CP3 at 1 to 2 feet bgs had a reported concentration of TPHd (170 mg/kg) above the Table A ESL. Concentrations of TPHd and TPHmo were reported below Table A ESLs for step-out samples collected to two feet bgs within 10 feet of CP3 and CP3A, so the lateral and vertical extent of TPH impacts to soil was characterized. Concentrations of lead were reported below the Table A ESL for the sample collected at CP3 from 1 to 2 feet bgs and for step-out samples collected from 0 to 1 foot bgs within 10 feet of CP3, so the lateral and vertical extent of lead impacts to soil was characterized.

16331 Site Building – Boring L10

The soil sample collected from boring L10 at 0 to 1 feet bgs had a reported concentration of lead (at 420 mg/kg) above the Table A ESLs (Figure 4, Table 2). Step-out and step-down samples had reported concentrations of lead below the Table A ESLs (Figure 4), so additional analysis for the vertical and lateral extent of lead was not necessary.

16331 Site Building – Boring L13

Lead was reported above Table A ESLs in the surficial (0 to 1 foot bgs) soil sample collected at Boring L13; however, it was reported below Table A ESLs in the 1 to 2 foot bgs sample from Boring L13. Lead was reported below the Table A ESLs for step-out samples collected to 1 foot bgs within 2.5 feet of L13, so the lateral and vertical extent of lead impacts was characterized.

Arsenic was reported above the Table A ESLs and the Duverge background level in the surficial soil sample collected at boring L13A; however, arsenic was reported below the Duverge background level in the step-out samples collected to 1 foot bgs within 2.5 feet of L13, so the lateral extent of arsenic impacts was characterized.

Surficial step-out samples collected during the Supplemental Phase II ESA indicated concentrations of TPHd and TPHmo, up to 1,200 mg/kg and 4,500 mg/kg, respectively, within a five foot radius of Boring L13. Based on these results, further sampling to define the lateral and vertical extent of TPHd and TPHmo impacts were recommended, and the analytical results from this sampling event are discussed in the Additional Supplemental Sampling section below.

3.7. Site Meeting

Ninyo & Moore met with Mr. Brian Saliman from the RCD and Mr. Jerry Wickham from the ACEH on September 10, 2013 to discuss potential additional site sampling as well as a and potential remediation strategy. Mr. Wickham recommended that, in addition to the step-out sampling recommended in Ninyo & Moore's Supplemental Phase II ESA Report, soil

samples should be collected adjacent to the 2-foot diameter water cistern (Figure 6) and within the former known UST tank pit location (Figure 2) and, due to the presence of elevated lead concentrations to 3 feet bgs in the property adjacent to the northwestern section of the site, soil samples previously collected in the carport area from 1 to 2 feet bgs be analyzed for Title 22 Metals. The group also discussed sampling an existing stockpile observed near the site entrance and future stockpiles generated during utility trenching activities on Kent Avenue.

4. ADDITIONAL SUPPLEMENTAL SAMPLING AND LABORATORY ANALYSIS

On September 25, 2013, Ninyo & Moore advanced two borings using a Geoprobe rig to 8 feet bgs adjacent to the 2-foot diameter water cistern and in the former UST tank pit (Figure 2) and advanced eight borings to 4 feet bgs by hand auger in the vicinity of boring L13 (Figure 5).

Soil samples from step-out borings L13-S15, L13-S5B, L13-N2.5-E10, L13-S7.5-E10, L13-S7.5-E20, L13-S7.5-E30, L13-S7.5-W10, and L13-S7.5-W20 in the vicinity of boring L13 from 0 to 1 feet bgs and 1 to 2 feet bgs as well as one sample from 2 to 3 feet bgs were analyzed for TPHd and TPHmo by EPA Method 8015M with silica gel cleanup (Table 1 and Figure 5). Soil samples from 3 to 4 feet bgs and 7 to 8 feet bgs from boring C1 adjacent to the 2-foot diameter cistern were analyzed for TPHg, TPHd, and TPHmo by EPA Method 8015M with silica gel cleanup, volatile organic compounds (VOCs) by EPA Method 8260B, Title 22 Metals by EPA Method 6010B, and OCPs by EPA Method 8081 (Tables 1 and 2). Soil samples from 3 to 4 feet bgs and 7 to 8 feet bgs from boring U1 in the former UST tank pit were analyzed for TPHg, TPHd, and TPHmo by EPA Method 8015M with silica gel cleanup, VOCs by EPA Method 8260B, and Title 22 Metals by EPA Method 6010B (Tables 1 and 2). Previously collected soil samples CP1-1-2, CP2-1-2, and CP3-1-2 in the Carport Area were suspected to be impacted with metals, particularly lead, based on metals impacts reported at the north-adjacent property and were subsequently analyzed for Title 22 Metals by EPA Method 6010B (Table 2 and Figure 3). Reported concentrations of COCs were compared to the Table A ESLs and, in addition, reported concentrations of arsenic were compared to the Duverge background levels for arsenic (Duverge, 2011).

4.1. Boring L13 Additional Soil Sample Results

- Soil samples collected from 0 to 1 feet bgs and 1 to 2 feet bgs in borings L13-N2.5-E10 and L13-S7.5-E30 had reported concentrations of TPHd and TPHmo below the Table A ESLs which delineated the impacts to soil to the north and east of boring L13.
- Soil samples collected from 1 to 2 feet bgs and 2 to 3 feet bgs in boring L13-S5B had reported concentrations of TPHd and TPHmo below the Table A ESLs which delineated the vertical extent of impacts to 1 foot bgs in this area.
- Surficial (0 to 1 feet bgs) soil samples in borings L13-S7.5-E10, L13-S7.5-E20, L13-S7.5-W10, and L13-S7.5-W20 had reported concentrations of TPHd and TPHmo above the Table A ESLs. The lateral surficial soil extent of TPH impacts to the east L13-S7.5 was defined by L13-S7.5-E30; however the lateral extent to the west is still undefined. Soil samples collected from 1 to 2 feet bgs in these borings had reported concentrations of TPHd and TPHmo below the Table A ESLs which delineated the vertical extent of impacts to 1 foot bgs in these areas.
- Soil samples collected from 0 to 1 feet bgs and 1 to 2 feet bgs in borings L13-S15 had reported concentrations of TPHd and/or TPHmo above the Table A ESLs.

4.2. Cistern Soil Sample Results

- Soil samples collected from 3 to 4 feet bgs and 7 to 8 feet bgs in borings C1 had reported concentrations of TPHg, TPHd, TPHmo, VOCs, OCPs and Title 22 Metals below the Table A ESLs with the exception of reported concentrations of arsenic which were above the Table A ESLs. However, the reported concentrations of arsenic in samples from boring C1 were below the Duverge background level.

4.3. Former Known UST Area Soil Sample Results

- Soil samples collected from 3 to 4 feet bgs and 7 to 8 feet bgs in borings U1 within the known former UST area had reported concentrations of TPHg, TPHd, TPHmo, VOCs, and Title 22 Metals below the Table A ESLs with the exception of reported concentrations of arsenic which were above the Table A ESLs. However, the reported concentrations of arsenic in samples from boring U1 were below the Duverge background level.

4.4. Carport Area Additional Sample Analytical Results

- Arsenic was reported in soil samples CP1-1-2, CP2-1-2, and CP3-1-2 at concentrations above the Table A ESLs, but below the Duverge background level. Other Title 22 Met-

als, including lead, were either not detected above laboratory reporting limits or reported concentrations were below the Table A ESLs.

4.5. Additional Supplemental Sampling Conclusions and Recommendations

Based on the results of the soil sampling, our recommendations include:

- Soil south of the site building and garden at the 16331 property should be excavated to 1 foot bgs, with the exception of the area adjacent to soil boring L13-S15 as shown on Figure 5. A confirmation sample is recommended on the western excavation boundary in this area because of the failure of sample L13-S7.5-W20.
- Soil in the vicinity of L13-S15 should be excavated to 3.0 feet bgs as shown on Figure 5. The northern boundary of the 3 foot excavation will be between the closest northern sample (L13-S7.5) and L13-S5, which have elevated TPHd/mo concentrations in the surficial samples. Sidewall confirmation samples should be collected at 2 feet bgs from the north, east, and west sidewalls of the 3 feet bgs excavation (Figure 5). A bottom confirmation sample should be collected at 3.0 feet bgs from an area near the center of the 3 feet bgs excavation (Figure 5).

5. NATURE AND DISTRIBUTION OF IMPACTED SOIL

Laboratory analytical results have indicated concentrations of TPHd, TPHmo, lead and arsenic detected in shallow soil on the property at levels exceeding regulatory guidance (Figures 3 through 5 and Tables 1 and 2). The regulatory guidelines used as a reference for cleanup goals for the site are Table A ESLs and the proposed upper estimate for background arsenic within undifferentiated urban flatland soils (Duverge, 2011). An evaluation of areas of soil impacted with constituents of concern at concentrations above the Table A ESLs is presented below.

5.1. Carport Area – Boring CP3

A carport is present on the northwestern portion of the site where cars were parked on gravel or bare soil. During the 2013 Ninyo & Moore Phase II ESA and Supplemental Phase II ESA, soil samples collected from this area revealed concentrations of lead, TPHd, and TPHmo in the shallow soil of boring CP3 which exceeded the Table A ESLs. Step-out and a step-down soil borings (CP3-N5, CP3-S5, CP3-E5, CP3W5, and CP3A) were advanced around boring CP3 during the 2013 Supplemental Phase II activities to evaluate the vertical and lateral ex-

tent of the impacts. Analytical results from the step-out and step-down borings revealed concentrations of TPHd, TPHmo, and lead below the Table A ESLs, suggesting that the impacts were shallow and localized in the vicinity of boring CP3 (Figures 2 and 3, Tables 1 and 2).

5.2. 16331 Site Building – Boring L10

The 16331 site building on the southeastern portion of the site was constructed prior to the ban on lead based paint. During the 2013 Ninyo & Moore Phase II ESA and Supplemental Phase II ESA, a soil sample collected from the northwest side of the 16331 site building revealed a concentration of lead in the shallow soil of boring L10 which exceeded the Table A ESL. Step-out and a step-down soil borings (L10-N2.5 and L10A) were advanced around boring L10 during the 2013 Supplemental Phase II activities to evaluate the vertical and lateral extent of the impacts. Analytical results from the step-out and step-down borings revealed concentrations of lead below the Table A ESL, suggesting that the impacts were shallow and localized in the vicinity of boring L10 (Figure 4, Table 2).

5.3. 16331 Site Building – Boring L13

The 16331 site building on the southeastern portion of the site was constructed prior to the ban on lead based paint. In addition, cars were parked on bare soil on a driveway/parking area on the south side of the 16331 site building, and mechanical debris was observed in the yard south of the site building. The 2013 Ninyo & Moore Phase II ESA and Supplemental Phase II ESA reported that soil samples collected from the southeast side of the 16331 site building revealed concentrations of lead, arsenic, TPHd, and TPHmo in the shallow soil of boring L13/L13A which exceeded the Table A ESLs. Analysis of step-out samples for lead and arsenic revealed concentrations of lead below the Table A ESLs and arsenic below the Duverge background level, suggesting that the lead and arsenic impacts were shallow and localized in the vicinity of boring L13/L13A. Analysis of step-out and a step-down soil borings reported concentrations of TPHd and TPHmo above the Table A ESLs up to 20 feet to the east and west and up to 15 feet to the south of boring L13/L13A. In addition, concentrations of TPHd and TPHmo above the Table A ESLs were reported in soil samples at 2 feet

bgs in boring L13-S15 (Figures 2 and 5, Table 1 and 2). The extent of lateral TPHd/mo impacts to surficial soil has been defined to the north and east; however, has not been defined to the west (due to sample failure) or south-central area (due to the site boundary), and the vertical impacts have not been defined within the vicinity of borings L13-S15, especially within the area between borings L13-S15 and L13-S5B.

6. IRAP

Removal action is required by ACEH in cases where site contaminants potentially threaten human or ecologic receptors. In the case of the subject site, the potential threat exists as petroleum hydrocarbons, lead, and/or arsenic in soil at discrete locations on the site. The concentrations of petroleum hydrocarbons, lead, and/or arsenic and the proximity of impacts to the soil surface pose a potential hazard to site users. The task elements associated with the removal action are described in this section.

6.1. Pre-Project Activities

The removal action will involve both on-site (removal) and off-site (transport and disposal) task elements. To ensure the safety and protection of site workers and off-site populations, the existing Health and Safety Plan shall be updated by Ninyo & Moore with removal action-specific information prior to the implementation of the removal action. This document shall detail all protective measures to be implemented during the removal action, including protective gear and training requirements for site workers, dust and noise control during on-site activity. The removal action contractor, Branagh, will prepare a traffic control plan detailing excavation areas, decontamination areas, routes of travel across the site, and truck routes of travel off-site.

All necessary permits and notifications will be obtained/submitted prior to the start of the removal action including a well destruction permit from Alameda County Public Works Agency (ACPWA) for abandonment of the 2-foot diameter water cistern and notification of BAAQMD of the removal action. ACEH will be notified at least 5 working days in advance

of excavation activities on site. The removal action contractor, Branaugh, will clear the site of brush and equipment prior to the removal action.

6.2. Targeted Removal

Targeted removal will be conducted to address areas of impacted soil which may impact human health. Targeted removal of impacted soil will be conducted by excavating the impacted soil using a rubber-tire backhoe or a tracked excavator at the beginning stages of site construction activities. Excavation will continue laterally and vertically until the designated lower and outside bounds are encountered. The excavation will be continued until the side-walls and bottoms are visually clean and free of odors. Confirmation samples will be collected from areas where impacts have not been completely delineated as detailed in Section 6.3. Excavated soils will be loaded directly into trucks for transportation to licensed disposal facilities under waste manifest. The excavation will not extend beyond the property boundaries. In order to ensure that the remedial excavations are properly located surrounding the boring locations of concern, a GPS survey unit will be used to designate the locations of the original borings. The locations of the remedial excavations are presented in Figures 3, 4, 5, and 6 and discussed in more detail below.

Carport Area – Boring CP3

Concentrations of TPHd, TPHmo, and lead in samples collected from 0 to 1 and 1 to 2 feet bgs were detected above the Table A ESLs in boring CP3, located in the carport area. The deeper sample collected from 2 to 3 feet bgs at CP3A, adjacent to this boring, and samples collected from step-out samples between the surface and 2 feet bgs reported TPHd/mo and lead concentrations below the Table A ESLs. An excavation will remove soil impacted with TPHd, TPHmo and lead above the Table A ESLs down to 3 feet bgs in the area of boring CP3. The excavation will be approximately 5 feet by 5 feet with a volume of approximately 3 cubic yards. Because the waste extraction test (WET) indicated that soluble lead was greater than the soluble threshold limit concentration (STLC) (or non-hazardous waste limit) of 5.0 milligrams per liter (mg/L), excavated soil from 0 to 3 feet bgs should be loaded

into a 3-cubic yard bin and transported to a Class I landfill facility by a licensed waste transporter under manifest as California hazardous (non-RCRA) waste pending waste profile acceptance.

16331 Site Building – Boring L10

Lead was reported in a surficial soil sample above the Table A ESL in boring L10, located on the northwest side of the 16331 site building. The deeper sample collected from 1 to 2 feet bgs in this boring and the step-out sample had concentrations below the Table A ESL. Based on the lead in soil results, our proposed excavation area includes an approximately 5 foot by 5 foot area to a depth of 2 feet bgs in the vicinity of L10. The volume of the excavated material will be approximately 2 cubic yards. Excavated soil from 0 to 2 feet bgs should be included in the L13 stockpile.

16331 Site Building – Boring L13

Concentrations of lead, arsenic, TPHd and TPHmo were detected above the Table A ESLs and Duverge background levels in samples collected from boring L13/L13A and step-out and step-down borings located on the southeast side of the 16331 site building. An excavation will remove impacted soil down to 2 foot bgs in the area depicted on Figure 5, which is approximately 1,400 square feet and 100 cubic yards. Additional excavation to 3-foot bgs is recommended for the area between borings L13-S15 and L13-S7.5 and extending approximately 7 to 8 feet laterally on the east and west sides of the borings.. The excavation area and volume will be approximately 150 square feet and 5 cubic yards. All excavated soil should be stockpiled for waste profiling sampling (Section 6.5). With waste profile acceptance, the stockpiled soil should be loaded onto trucks and transported to a Class II or III landfill by a licensed waste transporter under a non-hazardous waste manifest.

6.3. Site Monitoring

This section presents a general protocol for monitoring during site construction and grading activities where impacts to site soils are either unknown, known or suspected.

Given the potential nature of releases at the site to have been episodic and to have occurred at multiple locations, including the Carport and L13 Boring (16331 Building) areas, there is the potential for encountering impacted soils during demolition, excavation, or grading activities within these and other site areas. Because of this concern, excavation and grading activities within the Carport and the 16331 Building areas will be monitored by an environmental professional (EP) under the supervision of a California Professional Geologist (PG) or Engineer (PE). Soils will be monitored for obvious signs of contamination, including discoloration, staining or odors. If odors are noted in soil, a photoionization detector (PID) will be used by the EP to measure levels of organic compounds, which will be compared to action levels for site workers and occupants contained in the site specific Health and Safety Plan. Screening results will be recorded in daily field logs.

If soil contamination (i.e. organic vapors) exceeds action levels, work will be halted, and the contractor and RCD will be notified of existing conditions, and an evaluation will be made by Ninyo & Moore and RCD regarding required personal protective equipment (PPE) for site personnel and/or engineering controls (ECs) to be used to mitigate potential worker health and safety issues. The ACEH will also be informed of the site impacts and mitigation measures. Once site impacts have been mitigated to below worker safety guidelines, work will continue on site

If hazardous substances or conditions are encountered which present an immediate threat of injury to human health or water quality, the Contractor shall secure the area and shall notify Ninyo & Moore and/or the Owner's Representative immediately. The Contractor shall call "911" to summon the emergency services, as necessary.

If previously unknown hazardous substances or conditions are encountered that do not present an immediate threat to human health or the environment, the Contractor shall immediately notify Ninyo & Moore, and the RCD. As necessary, the area surrounding the discovery of unknown contamination will be isolated and secured by the Contractor with markings, fencing, or a suitable barrier so that construction activities can be excluded from

the zone of impact. Ninyo & Moore, the contractor and the RCD, will then decide whether immediate excavation, segregation, stockpiling, containerization, and/or other activities are warranted.

6.3.1. Odor and Vapor Control

There is a potential to generate odors during construction activities, including during excavation and management of temporarily stockpiled contaminated materials. The Contractor shall employ odor suppression techniques, such as 6-mil plastic cover or spray-on vapor/odor suppressants, to mitigate impacts to site workers and visitors. If the appropriate suppression techniques are used, local businesses and site areas outside of the construction zone should not be impacted by vapor and/or odors potentially generated during site development or redevelopment activities. If stockpiles and/or open excavations are a source of odors, the Contractor shall cover them with a minimum of 6-mil plastic prior to leaving the site at the end of each workday.

6.3.2. Dust Control

The Contractor will mitigate dust with water, either with a hand held sprayer or by water trucks, as needed, on the surface of active work areas. Care will be exercised to minimize the overuse of water so as not to create surface water runoff or excessively saturated conditions. Dust control will also be conducted at the site entrance during project work at the site, and in areas associated with potential excavation and stockpiling of soil.

6.4. Over-excavation and Confirmation Sampling

Areas of known contamination include the Carport and 16331 Building areas (Borings L10 and L13). If contamination is observed in known or unknown areas during excavation and grading activities, soil shall be over-excavated until sidewalls and bottoms are visually clean and free of obvious staining and odor, and PID screening levels are below action levels. Contaminated soil will be stockpiled for disposal as described in Section 6.6.

Subsequent to excavation of contaminated soil, confirmation soil samples will be collected from sidewall and bottom areas from the 16331 Building area and other site areas (see below) where unknown impacts to soil are observed during excavation and grading activities. Additional soil samples or alternate depths and locations of soil sampling may be required if requested by the ACEH field inspector. Samples will be collected using reusable stainless steel or disposable trowels. The reusable trowels will be decontaminated between sample locations using a triple rinse method consisting of a rinse with distilled water, followed by a rinse with an appropriate detergent solution, followed by a final rinse with distilled water. Disposable trowels will be disposed of in the same manner as other general debris on site.

Carport Area – Boring CP3 No Confirmation Sampling . Confirmation samples will not be collected from this area unless previously unknown contamination is encountered and over-excavation is performed because the limits of contamination were delineated during previous sampling activities as described in Section 5.

16331 Building Area – Boring L10 No Confirmation Sampling. Confirmation samples will not be collected from this area unless previously unknown contamination is encountered and over-excavation is performed because the limits of contamination were delineated during previous sampling activities as described in Section 5.

16331 Building Area – Boring L13 Confirmation Sampling. Sidewall confirmation samples will be collected between the surface and 3 feet bgs from the north, east, and west sidewalls of the L13-S15/L13-S7.5 excavation and at 1 foot bgs from the west sidewall near boring L13-S7.5-W20 and east sidewall between L13-S7.5-E20 and L13-S7.5-E30 (Figure 5). Sidewall samples will not be collected from the northern or southern 2-foot bgs excavation boundaries due to physical obstacles. A bottom confirmation sample will be collected at 3.0 feet bgs within the center of the L13-S15/L13-S7.5 excavation (Figure 5). Confirmation samples from the boring L13 excavation will be analyzed for TPHd and TPHmo using EPA Method 8015M.

Unknown Areas of Contamination Confirmation Sampling If contaminated soil is encountered in areas previously suspected to be free of impacts, sidewall confirmation samples will be collected at a rate of one lateral sample per 25 linear feet of sidewall at a depth midway between the surface and excavation bottom. Bottom confirmation samples will be collected at the intersections of a 50-foot by 50-foot grid centered on the excavation. Confirmation samples will be analyzed for TPHg, TPHd, and TPHmo by EPA Method 8015, VOCs by EPA Method 8260B, and Title 22 Metals by EPA Method 6010/7471.

Once the confirmation samples are collected, the sample containers will be prepared for transport to the analytical laboratory. The samples will be identified with the project name, location, sample location number, sample depth, sampling date/time, and sampler's initials, and will be placed into plastic bags and stored in an insulated ice chest containing ice for transport to the analytical laboratory with completed Chain-of-custody documentation.

Because the targeted removal activities will commence at the beginning phase of site construction activities, and there may be a need (based on confirmation sample results) to over-excavate additionally impacted soils, the confirmation samples will be analyzed within a 24-hour turnaround time. Sampling operations will be coordinated by an EP under the direction of a Ninyo & Moore California-State Professional Geologist or Engineer.

6.5. Groundwater

The excavations discussed above are not planned to extend deeper than 2.5 feet bgs, therefore it is not anticipated that groundwater would be encountered during excavation activities.

6.6. Soil Stockpile Storage and Stockpile Sampling

Stockpile Storage

Soil to be excavated from the utility trench in Kent Avenue and the Boring L13 area excavation will be placed on plastic liners to prevent leaching of potential contaminated soil to the

site. Soil from the utility trench in Kent Avenue which appears to be free of impacts (no physical signs of contamination, including staining or odors) will be segregated in a separate stockpile from material which appears to be impacted. A berm will be constructed around the stockpiles to prevent water from draining out of the excavated soil and onto the surrounding soil surface. The stockpiles will be covered with plastic to prevent wind blown dust and infiltration of rainwater after the end of each work day.

Soil Stockpile Profiling for Disposal

Four discrete soil samples will be collected per every 500 cubic yards (cy) from soil stockpiled and stored on site for landfill transport and disposal. The samples will be labeled and identified, and forwarded to a NELAP and state certified environmental laboratory under completed Chain of Custody documentation following the procedures discussed in Section 6.4 above. Once received by the laboratory, the sample will be combined into a four-point composite for analysis. of known and suspected COC, including, but not limited to, TPHg, TPHd, and TPHmo by EPA Method 8015M; Title 22 Metals by EPA Method 6010B/7471; and benzene, toluene, ethylbenzene, and xylenes by EPA Method 8260B. If requested by the disposal facility, additional analyses will be conducted for waste disposal profiling.

Soil Stockpile Sampling for Reuse

The stockpiled soil from the proposed trench excavation in Kent Avenue will be sampled for potential reuse at a rate of one 4-point composite sample for every 50 cubic yards. Expedited laboratory analysis may be requested if necessary. If the soil is determined to be contaminated and not suitable for reuse, the analytical results will be used for waste profiling purposes. Waste profiling (for disposal) instructions are discussed above. The samples from the stockpiled soil from the future trench excavation in Kent Avenue will be analyzed for TPHg, TPHd, and TPHmo by EPA Method 8015M; Title 22 Metals by EPA Method 6010B/7471; and benzene, toluene, ethylbenzene, and xylenes by EPA Method 8260B.

The existing stockpile of unknown origin located adjacent to the Kent Avenue entrance to the site will be sampled for potential reuse at a rate of one 4-point composite sample for

every 50 cubic yards of homogeneous soil. Expedited laboratory analysis may be requested if necessary. If the soil is determined to be contaminated and not suitable for reuse, the analytical results will be used for waste profiling purposes. The samples from the existing stockpile of unknown origin will be analyzed for TPHg, TPHd, and TPHmo by EPA Method 8015M; Title 22 Metals by EPA Method 6010B/7471; VOCs by EPA Method 8260B; asbestos by California Air Resources Board (CARB) Level A-400; semivolatile organic compounds (SVOCs) by EPA Method 8270, PCBs by EPA Method 8082; OCPs by EPA Method 8081; organophosphorous pesticides by EPA Method 8141; and chlorinated herbicides by EPA Method 8151. If present, debris and construction material will be segregated from the stockpile prior to reuse..

6.7. Water Cistern Abandonment

The two-foot diameter water cistern will be abandoned in accordance with ACEH directives and ACPWA permit requirements. If the total depth of the cistern is 12 feet bgs or less, it should be abandoned by excavating around the cistern to the total depth of the cistern, demolishing and removing the brick walls of the cistern, and then backfilling the excavation with clean fill. If the total depth of the cistern is greater than 12 feet bgs, then the bottom of the cistern should be broken or removed, the brick walls of the cistern should be demolished and removed to 5 feet bgs, the cistern should be backfilled with grout from total depth to 5 feet bgs, and backfilled with clean fill from 5 feet bgs to the surface.

6.8. Potential Water Well

The potential presence of a water well was identified at the 16331 site building (RGA, 2011). Water wells were not observed at the site; however, if a water well is encountered during the removal action or subsequent grading activities, then ACEH should be notified and a well destruction permit should be acquired from ACPWA. Any water wells encountered at the site should be abandoned after consulting with ACPWA and determining proper abandonment procedure based on the details of the well construction.

6.9. Potential USTs

The potential presence of USTs was identified at the 16325, 16327, and 16331 Kent Avenue site buildings (RGA, 2011). *These USTs are reportedly in a different location than the known UST that was previously removed, and where soil samples were collected during the Additional Supplemental Phase II ESA activities as discussed in Section 4.3 above.* During a reconnaissance conducted by Ninyo & Moore, the USTs were not observed at the site; however, if USTs are encountered during the removal action or subsequent grading activities, then ACEH should be notified and a UST removal permit should be obtained. Any USTs encountered at the site should be abandoned in accordance with ACEH directives by removing the contents, triple rinsing, inerting, and excavating the UST, and removing the UST piping. The UST and associated piping should be transported to a licensed recycler for disposal. Soil and groundwater samples should be collected and analyzed for COC. With ACEH approval, the UST excavation should be backfilled with clean fill from total depth to the surface.

6.10. Backfilling Excavations

Areas of impacted soil on site where targeted removal will occur (Borings L10, L13 and Carport areas) will not be immediately backfilled because planned site-wide grading activities conducted by the General Contractor will remove soil down to 3 feet bgs. The site will be backfilled according to the RCD approved site Grading Plan, which will be provided to the ACEH independent of this IRAP.

6.11. Dust Control

Dust suppression will be accomplished by lightly spraying or misting stockpiled soil, truck loading areas on site, and the work areas with water. Misting may also be used on soil placed in the transport trucks. Misting will be performed sufficiently to reduce dust and vapors emissions but in small enough quantities so as to avoid puddling and runoff. In addition, efforts will be made to minimize the soil drop height from the excavator's bucket onto the soil pile or into the transport trucks. After the soil is loaded into the transport trucks, the soil will

be covered to prevent soil from spilling out of the truck during transport to the disposal facility.

While on the property, all vehicles will maintain slow speeds (i.e., less than 5 miles per hour [mph]) for safety purposes and for dust control measures. Prior to departure, transport and dump trucks will be cleaned by the remediation contractor of loose debris clinging to the sides and/or wheels using dry brooms or brushes to minimize off-site contaminant mobilization. Ninyo & Moore will oversee vehicular decontamination activities and inspect vehicles before they exit the site. If conditions warrant, a street sweeper may be retained to sweep the local street route.

In the event of sustained wind speeds that cause visible fugitive emissions, soil-moving activities will be temporarily halted until sufficient dust control agent is applied to reduce such emissions. In the event wind speeds exceed 25 mph for more than 30 minutes and visible emissions are observed, soil-moving activities will be halted until wind speeds decrease and no visible emissions are observed.

In areas where soil is stockpiled, excavated soil will be placed on, and covered with, 10-mil plastic sheets anchored in place using sandbags and rocks.

6.12. Traffic Plan

An on site route will be designated by Branagh for truck traffic during loading and off-hauling activities. This will involve traffic control at the site, including truck staging, speed control, truck routes, and an entry/exit location. Trucks will enter and exit from the single access point to the site which is located on Kent Avenue. Because the entry/exit location is in an area of minimal traffic, there is likely no need for traffic control measures at the entry/exit location.

6.13. Decontamination Plan

For soil excavation and off-hauling activities, a decontamination area will be set up at the entry/exit location on Kent Avenue or as directed in Branagh's transportation plan. Large equipment and vehicles requiring decontamination include excavation equipment, soil loading equipment, and off-site disposal trucks. Dry decontamination procedures will be used primarily. If water is used, the wash water will be collected in a tank and fluids will be tested and hauled off-site for appropriate disposal or recycling/reuse. Prior to departure, the off-site disposal trucks will move to a decontamination area where loose soil will be removed by the remediation contractor via dry brushing of the tires and truck body. Trucks will be inspected by Ninyo & Moore personnel to ensure proper decontamination has been performed prior to the trucks leaving the site. The loading and decontamination areas will be swept after each vehicle has departed to minimize affected soil contacting the tires of the next vehicle. At the end of each day, each soil hauling and loading vehicle will be swept down in the decontamination area. Branagh will develop a transportation plan detailing decontamination activities that will be submitted to Ninyo & Moore for review prior to the start of transportation activities.

7. SCHEDULE

Upon approval from ACEH, the activities described above will commence. The targeted removal activities will take place during the redevelopment construction of the site. The targeted removal activities will be the first step in the site redevelopment and is estimated to take up to 5 days to complete because analytical results from confirmation sampling may indicate that additional excavation and sampling activities are required.

8. REPORTING

A completion report will be prepared following the execution of the above-described activities. The report will include a description of the activities performed and any deviations from the IRAP. Confirmation sample analytical data will be tabulated and shown on figures. Manifests

and disposal receipts will be included as attachments, as will any required compaction documentation.

9. LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject site. The testing and analyses have been conducted by an independent laboratory which is certified by the State of California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

10. SIGNATURE OF ENVIRONMENTAL PROFESSIONAL



Kris M. Larson, PG 8059
Principal Environmental Geologist

11. QUALIFICATION OF ENVIRONMENTAL PROFESSIONAL

Mr. Larson states that the IRAP was prepared under his direct supervision, that he has reviewed and approved the report, and that the methods and procedures employed in the development of the report. Mr. Larson certifies that Ninyo & Moore project personnel and subcontractors are properly licensed and/or certified to do the work described herein.

12. REFERENCES

- Blackie, Belinda P., 2012a, Phase I Environmental Site Assessment, Gaphoor-Bay Signs Property, 16375 East 14th Street, San Leandro, California, dated March 16.
- Blackie, Belinda P., 2012b, Phase I Environmental Site Assessment, Joe Parcel, 16327 Kent Avenue, San Lorenzo, California, dated May 8.
- Duverge, Dylan J., 2011, Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region, San Francisco, California, dated December.
- Kearney Foundation of Soil Science, 1996, Background Concentrations of Trace and Major Elements in California Soils, dated March.
- Ninyo & Moore, 2013a, Phase II Environmental Site Assessment, 16305, 16309, 16325, 16327, 16331, and 16333 Kent Avenue and 16375 East 14th Street, Ashland, California, dated July 9.
- Ninyo & Moore, 2013b, Supplemental Phase II Environmental Site Assessment, 16305, 16309, 16325, 16327, 16331, and 16333 Kent Avenue and 16375 East 14th Street, Ashland, California, dated September 9.
- RGA Environmental, 2011, Environmental Site Assessment Report, Ashland Housing Project, 16305, 16309, 16325, 16331, and 16333 Kent Avenue, San Lorenzo, California, dated May 13.
- San Francisco Bay Regional Water Quality Control Board (SFRWQCB), 2013, Environmental Screening Levels, dated May.

TABLE 1 - SOIL SAMPLE ANALYTICAL RESULTS FOR
TOTAL PETROLEUM HYDROCARBONS, VOLATILE ORGANIC COMPOUNDS, POLYCHLORINATED BIPHENYLS,
POLYNUCLEAR AROMATIC HYDROCARBONS AND ORGANOCHLORINATED PESTICIDES

Sample ID	Date Sample Collected	Sample Depth (feet bgs)	TPH (mg/kg)			PCBs (µg/kg)	PAHs (µg/kg)	VOCs (µg/kg)					OCPs (ug/kg)					
			TPH as gasoline	TPH as diesel	TPH as motor oil	All PCBs	All PAHs	Benzene	Toluene	Ethylbenzene	Total Xylenes	All Other VOCs	4,4'-DDE	4,4'-DDT	alpha-Chlordane	Chlordane	gamma-Chlordane	All Other OCPs
Previous Soil Sampling																		
Composite 1 ¹	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Composite 2 ²	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OG1-0-1	5/23/2013	0-1.0	ND<1.0	4.4	2.7	--	--	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	
OG1-1-2	5/23/2013	1.0-2.0	ND<1.0	4.5	3.9	--	--	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	
OG2-0-1	5/23/2013	0-1.0	ND<1.0	5.8	7.5	--	--	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	
OG2-1-2	5/23/2013	1.0-2.0	ND<1.0	5.3	3.5	--	--	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	
OG3-0-1	5/23/2013	0-1.0	ND<1.0	3.6	2.3	--	--	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	
OG3-1-2	5/23/2013	1.0-2.0	ND<1.0	6.8	6.0	--	--	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	
OG4-0-1	5/23/2013	0-1.0	ND<1.0	3.4	3.1	--	--	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	
OG4-1-2	5/23/2013	1.0-2.0	ND<1.0	5.7	4.6	--	--	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	
CP1-0-1	5/23/2013	0-1.0	ND<1.0	9.8	11	ND	ND	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	
CP1-1-2	5/23/2013	1.0-2.0	ND<1.0	8.3	8.7	--	--	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	
CP2-0-1	5/23/2013	0-1.0	ND<1.0	6.4	5.4	ND	ND	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	
CP2-1-2	5/23/2013	1.0-2.0	ND<1.0	5.6	4.4	--	--	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	
CP3-0-1	5/23/2013	0-1.0	ND<1.0	840	1,500	ND	ND	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	
CP3-1-2	5/23/2013	1.0-2.0	ND<1.0	170	290	--	--	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	
CP4-0-1	5/23/2013	0-1.0	ND<1.0	7.9	9.0	ND	ND	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	
CP4-1-2	5/23/2013	1.0-2.0	ND<1.0	8.4	8.8	--	--	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	
Composite A ³	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	ND<2.0	9.2	7.2	67	9.2	ND
Composite B ⁴	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	12	10	1.5	19	1.2	ND
Composite C ⁵	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<1.0	ND
Composite D ⁶	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Composite E ⁷	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Composite F ⁸	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G1-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G1-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G2-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G2-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G3-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G3-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G4-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G4-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G5-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G5-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G6-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G6-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G7-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G7-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G8-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G8-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G9-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G9-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L1-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L1-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L2-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L2-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L3-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L3-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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TOTAL PETROLEUM HYDROCARBONS, VOLATILE ORGANIC COMPOUNDS, POLYCHLORINATED BIPHENYLS,
POLYNUCLEAR AROMATIC HYDROCARBONS AND ORGANOCHLORINATED PESTICIDES

Sample ID	Date Sample Collected	Sample Depth (feet bgs)	TPH (mg/kg)			PCBs (µg/kg)	PAHs (µg/kg)	VOCs (µg/kg)					OCPs (ug/kg)					
			TPH as gasoline	TPH as diesel	TPH as motor oil	All PCBs	All PAHs	Benzene	Toluene	Ethylbenzene	Total Xylenes	All Other VOCs	4,4'-DDE	4,4'-DDT	alpha-Chlordane	Chlordane	gamma-Chlordane	All Other OCPs
L4-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L4-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L5-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L5-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L6-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L6-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L7-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L7-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L8-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L8-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L9-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L9-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L10-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L10-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L11-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L11-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L12-0-1	6/13/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L12-1-2	6/13/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-0-1	6/13/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-1-2	6/13/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L14-0-1	6/13/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L14-1-2	6/13/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Supplemental Step-Out Sampling																		
L10A-0-1	7/23/2013	0-1.0	ND<1.0	25	43	--	--	ND<5.0	ND<5.0	ND<5.0	ND<10	--	--	--	--	--	--	--
L10-N2.5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L10-N5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L10-N7.5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13A-0-1	7/23/2013	0-1.0	ND<1.0	170	720	--	--	ND<5.0	ND<5.0	ND<5.0	ND<10	--	--	--	--	--	--	--
L13-N2.5-0-1	7/23/2013	0-1.0	--	270	950	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-N2.5-E10-0-1	9/25/2013	0-1.0	--	7.7	16	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-N2.5-E10-1-2	9/25/2013	1.0-2.0	--	15	45	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-N2.5-E10-2-3	9/25/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-N2.5-E10-3-4	9/25/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-N5-0-1	7/23/2013	0-1.0	--	33	100	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-N7.5-0-1	7/23/2013	0-1.0	--	46	140	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S2.5-0-1	7/23/2013	0-1.0	--	360	1,200	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S5-0-1	7/23/2013	0-1.0	--	1,200	4,500	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S5B-1-2	9/25/2013	1.0-2.0	--	7.3	18	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S5B-2-3	9/25/2013	2.0-3.0	--	5.8	10	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S5B-3-4	9/25/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-0-1	7/23/2013	0-1.0	--	1,100	4,100	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-E10-0-1	9/25/2013	0-1.0	--	140	610	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-E10-1-2	9/25/2013	1.0-2.0	--	21	76	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-E10-2-3	9/25/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-E10-3-4	9/25/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-E20-0-1	9/25/2013	0-1.0	--	140	690	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-E20-1-2	9/25/2013	1.0-2.0	--	14	44	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-E20-2-3	9/25/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-E20-3-4	9/25/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-E30-0-1	9/25/2013	0-1.0	--	32	94	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-E30-1-2	9/25/2013	1.0-2.0	--	18	49	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 1 - SOIL SAMPLE ANALYTICAL RESULTS FOR
TOTAL PETROLEUM HYDROCARBONS, VOLATILE ORGANIC COMPOUNDS, POLYCHLORINATED BIPHENYLS,
POLYNUCLEAR AROMATIC HYDROCARBONS AND ORGANOCHLORINATED PESTICIDES

Sample ID	Date Sample Collected	Sample Depth (feet bgs)	TPH (mg/kg)			PCBs (µg/kg)	PAHs (µg/kg)	VOCs (µg/kg)					OCPs (ug/kg)					
			TPH as gasoline	TPH as diesel	TPH as motor oil	All PCBs	All PAHs	Benzene	Toluene	Ethylbenzene	Total Xylenes	All Other VOCs	4,4'-DDE	4,4'-DDT	alpha-Chlordane	Chlordane	gamma-Chlordane	All Other OCPs
L13-S7.5-E30-2-3	9/25/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-E30-3-4	9/25/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-W10-0-1	9/25/2013	0-1.0	--	170	700	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-W10-1-2	9/25/2013	1.0-2.0	--	7.5	9.5	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-W10-2-3	9/25/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-W10-3-4	9/25/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-W20-0-1	9/25/2013	0-1.0	--	620	2,600	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-W20-1-2	9/25/2013	1.0-2.0	--	11	34	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-W20-2-3	9/25/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S7.5-W20-3-4	9/25/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S15-0-1	9/25/2013	0-1.0	--	160	630	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S15-1-2	9/25/2013	1.0-2.0	--	120	510	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S15-2-3	9/25/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-S15-3-4	9/25/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-W2.5-0-1	7/23/2013	0-1.0	--	59	140	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-W5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L13-W7.5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3A-2-3	7/23/2013	2.0-3.0	--	2.5	3.4	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3A-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-W5-0-1	7/23/2013	0-1.0	--	6.2	14	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-W5-1-2	7/23/2013	1.0-2.0	--	3.8	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-W5-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-W5-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-W10-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-W10-1-2	7/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-W10-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-W10-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-S5-0-1	7/23/2013	0-1.0	--	3.4	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-S5-1-2	7/23/2013	1.0-2.0	--	1.6	2.4	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-S5-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-S5-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-S10-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-S10-1-2	7/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-S10-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-S10-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-S15-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-S15-1-2	7/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-S15-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-S15-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-E5-0-1	7/23/2013	0-1.0	--	1.6	2.4	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-E5-1-2	7/23/2013	1.0-2.0	--	2.4	3.6	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-E5-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-E5-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-E10-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-E10-1-2	7/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-E10-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-E10-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**TABLE 1 - SOIL SAMPLE ANALYTICAL RESULTS FOR
TOTAL PETROLEUM HYDROCARBONS, VOLATILE ORGANIC COMPOUNDS, POLYCHLORINATED BIPHENYLS,
POLYNUCLEAR AROMATIC HYDROCARBONS AND ORGANOCHLORINATED PESTICIDES**

Sample ID	Date Sample Collected	Sample Depth (feet bgs)	TPH (mg/kg)			PCBs (µg/kg)	PAHs (µg/kg)	VOCs (µg/kg)					OCPs (ug/kg)					
			TPH as gasoline	TPH as diesel	TPH as motor oil	All PCBs	All PAHs	Benzene	Toluene	Ethylbenzene	Total Xylenes	All Other VOCs	4,4'-DDE	4,4'-DDT	alpha-Chlordane	Chlordane	gamma-Chlordane	All Other OCPs
CP3-E15-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-E15-1-2	7/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-E15-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-E15-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-N5-0-1	7/23/2013	0-1.0	--	2.6	4.5	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-N5-1-2	7/23/2013	1.0-2.0	--	2.3	3.6	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-N5-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-N5-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-N10-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-N10-1-2	7/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-N10-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-N10-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C1-3-4	9/25/2013	3.0-4.0	ND<1.0	5.7	9.8	ND	ND	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<1.0	ND
C1-7-8	9/25/2013	7.0-8.0	ND<1.0	5.1	5.9	ND	ND	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<1.0	ND
U1-3-4	9/25/2013	3.0-4.0	ND<1.0	7.5	9.2	ND	ND	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	--
U1-7-8	9/25/2013	7.0-8.0	ND<1.0	9.0	9.4	ND	ND	ND<5.0	ND<5.0	ND<5.0	ND<10	ND	--	--	--	--	--	--
Residential ESLs			100	100	500	NA	NA	44	2,900	3,300	2,300	NA	1,700	1,700	NE	440	NE	NA
Commercial/Industrial ESLs			500	500	2,500	NA	NA	44	2,900	3,300	2,300	NA	4,000	4,000	NE	950	NE	NA

Notes:
 TPH = Total Petroleum Hydrocarbons by EPA Method 8015B
 PCBs = Polychlorinated Biphenyls by EPA Method 8082
 PAHs = Polynuclear Aromatic Hydrocarbons by EPA Method 8270-SIM
 VOCs = volatile organic compounds analyzed by EPA Method 8260B
 OCPs = Organochlorinated pesticides analyzed by EPA Method 8081
 ESLs = San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels - Shallow Soils (6 bgs) - Where Groundwater IS a current or potential source of drinking water (May 2013, Table A)
 mg/kg – milligrams per kilogram
 µg/kg – micrograms per kilogram
 1 - Composite 1 was composited by the laboratory from soil samples CP1-0-1, CP2-0-1, CP3-0-1, and CP4-0-1
 2 - Composite 2 was composited by the laboratory from soil samples OG1-0-1, OG2-0-1, OG3-0-1, and OG4-0-1
 3 - Composite A was composited by the laboratory from soil samples G1-0-1, G2-0-1, and G3-0-1
 4 - Composite B was composited by the laboratory from soil samples G4-0-1, G5-0-1, and G6-0-1
 5 - Composite C was composited by the laboratory from soil samples G7-0-1, G8-0-1, and G9-0-1
 6 - Composite D was composited by the laboratory from soil samples G1-1-2, G2-1-2, and G3-1-2
 7 - Composite E was composited by the laboratory from soil samples G4-1-2, G5-1-2, and G6-1-2
 8 - Composite F was composited by the laboratory from soil samples G7-1-2, G8-1-2, and G9-1-2
Bold indicates the concentration is above the residential ESL.
Shaded indicates the concentration is above the commercial/industrial ESL.
 -- Not Analyzed
 NA - Not Applicable
 NE - Not Established
 bgs – below ground surface
 ND - Not detected above various laboratory detection limits
 <X indicates concentration not detected above the laboratory detection limits of X

TABLE 2 - SOIL SAMPLE ANALYTICAL RESULTS FOR TITLE 22 METALS

Sample ID	Date Sample Collected	Sample Depth (feet bgs)	Analytical Results (mg/kg)																		
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	STLC Lead ¹¹	TCLP Lead ¹¹	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Previous Soil Sampling																					
Composite 1 ¹	5/23/2013	0-1.0	ND<2.0	3.4	130	ND<1.0	ND<1.0	27	7.9	17	59	--	--	ND<0.10	ND<1.0	33	ND<1.0	ND<1.0	ND<1.0	21	44
Composite 2 ²	5/23/2013	0-1.0	ND<2.0	4.1	120	ND<1.0	ND<1.0	3.2	8.5	17	8.2	--	--	ND<0.10	ND<1.0	38	ND<1.0	ND<1.0	ND<1.0	25	40
OG1-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OG1-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OG2-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OG2-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OG3-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OG3-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OG4-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OG4-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP1-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP1-1-2	5/23/2013	1.0-2.0	ND<2.0	4.3	120	ND<1.0	ND<1.0	34	8.2	16	5.4	--	--	--	ND<1.0	39	1.6	ND<1.0	ND<1.0	29	35
CP2-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP2-1-2	5/23/2013	1.0-2.0	ND<2.0	4.3	110	ND<1.0	ND<1.0	32	7.5	16	4.8	--	--	--	ND<1.0	37	1.2	ND<1.0	ND<1.0	26	35
CP3-0-1*	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	320*	8.0*	ND<0.05*	--	--	--	--	--	--	--	--
CP3-1-2	5/23/2013	1.0-2.0	ND<2.0	3.7	140	ND<1.0	ND<1.0	34	7.1	16	51	1.1	--	--	ND<1.0	36	ND<1.0	ND<1.0	ND<1.0	28	41
CP4-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP4-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Composite A ³	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Composite B ⁴	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Composite C ⁵	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Composite D ⁶	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Composite E ⁷	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Composite F ⁸	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G1-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	21	--	--	--	--	--	--	--	--	--	--
G1-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G2-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	1.4	--	--	--	--	--	--	--	--	--	--
G2-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G3-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	14	--	--	--	--	--	--	--	--	--	--
G3-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G4-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	44	--	--	--	--	--	--	--	--	--	--
G4-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G5-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	27	--	--	--	--	--	--	--	--	--	--
G5-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G6-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	15	--	--	--	--	--	--	--	--	--	--
G6-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G7-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	37	--	--	--	--	--	--	--	--	--	--
G7-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G8-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	17	--	--	--	--	--	--	--	--	--	--
G8-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G9-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	4.7	--	--	--	--	--	--	--	--	--	--
G9-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
L1-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	78	--	--	--	--	--	--	--	--	--	--
L1-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2 - SOIL SAMPLE ANALYTICAL RESULTS FOR TITLE 22 METALS

Sample ID	Date Sample Collected	Sample Depth (feet bgs)	Analytical Results (mg/kg)																			
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	STLC Lead ¹¹	TCLP Lead ¹¹	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
L2-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	37	--	--	--	--	--	--	--	--	--		
L2-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L3-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	9.7	--	--	--	--	--	--	--	--	--		
L3-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L4-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	70	--	--	--	--	--	--	--	--	--		
L4-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L5-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	16	--	--	--	--	--	--	--	--	--		
L5-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L6-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	47	--	--	--	--	--	--	--	--	--		
L6-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L7-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	26	--	--	--	--	--	--	--	--	--		
L7-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L8-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	70	--	--	--	--	--	--	--	--	--		
L8-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L9-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	51	--	--	--	--	--	--	--	--	--		
L9-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L10-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	420	2.7	--	--	--	--	--	--	--	--		
L10-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	13	--	--	--	--	--	--	--	--	--		
L11-0-1	5/23/2013	0-1.0	--	--	--	--	--	--	--	--	7.3	--	--	--	--	--	--	--	--	--		
L11-1-2	5/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L12-0-1	6/13/2013	0-1.0	--	--	--	--	--	--	--	--	34	--	--	--	--	--	--	--	--	--		
L12-1-2	6/13/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-0-1	6/13/2013	0-1.0	--	--	--	--	--	--	--	--	100	3.4	--	--	--	--	--	--	--	--		
L13-1-2	6/13/2013	1.0-2.0	--	--	--	--	--	--	--	--	18	--	--	--	--	--	--	--	--	--		
L14-0-1	6/13/2013	0-1.0	--	--	--	--	--	--	--	--	12	--	--	--	--	--	--	--	--	--		
L14-1-2	6/13/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Supplemental Step-Out Sampling																						
L10A-0-1	7/23/2013	0-1.0	ND<2.0	6.0	160	ND<1.0	ND<1.0	34	8.8	22	27	--	--	ND<0.10	ND<1.0	41	ND<1.0	ND<1.0	ND<1.0	29	95	
L10-N2.5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	17	--	--	--	--	--	--	--	--	--		
L10-N5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L10-N7.5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13A-0-1	7/23/2013	0-1.0	ND<2.0	18	180	ND<1.0	ND<1.0	32	7.6	82	73	1.9	--	0.16	ND<1.0	32	ND<1.0	ND<1.0	ND<1.0	26	170	
L13-N2.5-0-1	7/23/2013	0-1.0	--	8.1	--	--	--	--	--	--	70	--	--	--	--	--	--	--	--	--		
L13-N2.5-E10-0-1	9/25/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-N2.5-E10-1-2	9/25/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-N2.5-E10-2-3	9/25/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-N2.5-E10-3-4	9/25/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-N5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-N7.5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-S2.5-0-1	7/23/2013	0-1.0	--	6.9	--	--	--	--	--	--	64	--	--	--	--	--	--	--	--	--		
L13-S5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-S5B-1-2	9/25/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-S5B-2-3	9/25/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-S5B-3-4	9/25/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-S7.5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-S7.5-E10-0-1	9/25/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-S7.5-E10-1-2	9/25/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-S7.5-E10-2-3	9/25/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-S7.5-E10-3-4	9/25/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-S7.5-E20-0-1	9/25/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-S7.5-E20-1-2	9/25/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
L13-S7.5-E20-2-3	9/25/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

TABLE 2 - SOIL SAMPLE ANALYTICAL RESULTS FOR TITLE 22 METALS

Sample ID	Date Sample Collected	Sample Depth (feet bgs)	Analytical Results (mg/kg)																		
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	STLC Lead ¹¹	TCLP Lead ¹¹	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
L13-S7.5-E20-3-4	9/25/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-S7.5-E30-0-1	9/25/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-S7.5-E30-1-2	9/25/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-S7.5-E30-2-3	9/25/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-S7.5-E30-3-4	9/25/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-S7.5-W10-0-1	9/25/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-S7.5-W10-1-2	9/25/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-S7.5-W10-2-3	9/25/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-S7.5-W10-3-4	9/25/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-S7.5-W20-0-1	9/25/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-S7.5-W20-1-2	9/25/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-S7.5-W20-2-3	9/25/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-S7.5-W20-3-4	9/25/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-S15-0-1	9/25/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-S15-1-2	9/25/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-S15-2-3	9/25/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-S15-3-4	9/25/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-W2.5-0-1	7/23/2013	0-1.0	--	4.2	--	--	--	--	--	--	26	--	--	--	--	--	--	--	--	--	
L13-W5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
L13-W7.5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3A-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3A-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-W5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	15	--	--	--	--	--	--	--	--	--	
CP3-W5-1-2	7/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-W5-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-W5-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-W10-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-W10-1-2	7/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-W10-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-W10-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-S5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	8.4	--	--	--	--	--	--	--	--	--	
CP3-S5-1-2	7/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-S5-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-S5-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-S10-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-S10-1-2	7/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-S10-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-S10-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-S15-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-S15-1-2	7/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-S15-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-S15-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-E5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	8.1	--	--	--	--	--	--	--	--	--	
CP3-E5-1-2	7/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-E5-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-E5-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-E10-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-E10-1-2	7/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-E10-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-E10-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-E15-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CP3-E15-1-2	7/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 2 - SOIL SAMPLE ANALYTICAL RESULTS FOR TITLE 22 METALS

Sample ID	Date Sample Collected	Sample Depth (feet bgs)	Analytical Results (mg/kg)																		
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	STLC Lead ¹¹	TCLP Lead ¹¹	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
CP3-E15-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-E15-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-N5-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	10	--	--	--	--	--	--	--	--	--	--
CP3-N5-1-2	7/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-N5-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-N5-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-N10-0-1	7/23/2013	0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-N10-1-2	7/23/2013	1.0-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-N10-2-3	7/23/2013	2.0-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CP3-N10-3-4	7/23/2013	3.0-4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C1-3-4	9/25/2013	3.0-4.0	ND<2.0	3.2	95	ND<1.0	ND<1.0	25	5.6	12	7.1	--	--	ND<0.10	ND<1.0	31	1.6	ND<1.0	ND<1.0	19	30
C1-7-8	9/25/2013	7.0-8.0	ND<2.0	2.5	68	ND<1.0	ND<1.0	25	4.1	11	3.0	--	--	ND<0.10	ND<1.0	24	1.4	ND<1.0	ND<1.0	17	24
U1-3-4	9/25/2013	3.0-4.0	ND<2.0	2.8	110	ND<1.0	ND<1.0	25	6.5	13	4.5	--	--	ND<0.10	ND<1.0	34	1.6	ND<1.0	ND<1.0	19	28
U1-7-8	9/25/2013	7.0-8.0	ND<2.0	4.7	130	ND<1.0	ND<1.0	30	11	15	4.6	--	--	ND<0.10	ND<1.0	41	1.7	ND<1.0	ND<1.0	24	29
Residential ESLs			20	0.39	750	4	12	NE	23	230	80	NA	NA	6.7	40	150	10	20	0.78	200	600
Commercial/Industrial ESLs			40	0.96	1,500	8	12	NE	80	230	320	NA	NA	10	40	150	10	40	10	200	600
Background Concentrations⁹			0.6	3.5 (11 ¹⁰)	509	1.28	0.36	122	14.9	28.7	48.5	NA	NA	0.26	1.3	57	0.058	0.8	0.56	112	149

Notes:

Metals analyzed by EPA Method 6010B except mercury which was analyzed by EPA Method 7471.

STLC - soluble threshold limit concentration

TCLP - toxicity characteristic leaching procedure

* - Soil sample CP3-0-1 was collected and placed on hold during the previous Phase II ESA and selected for analysis during the Supplemental Phase II ESA.

1 - Composite 1 was composited by the laboratory from soil samples CP1-0-1, CP2-0-1, CP3-0-1, and CP4-0-1

2 - Composite 2 was composited by the laboratory from soil samples OG1-0-1, OG2-0-1, OG3-0-1, and OG4-0-1

3 - Composite A was composited by the laboratory from soil samples G1-0-1, G2-0-1, and G3-0-1

4 - Composite B was composited by the laboratory from soil samples G4-0-1, G5-0-1, and G6-0-1

5 - Composite C was composited by the laboratory from soil samples G7-0-1, G8-0-1, and G9-0-1

6 - Composite D was composited by the laboratory from soil samples G1-1-2, G2-1-2, and G3-1-2

7 - Composite E was composited by the laboratory from soil samples G4-1-2, G5-1-2, and G6-1-2

8 - Composite F was composited by the laboratory from soil samples G7-1-2, G8-1-2, and G9-1-2

9 - Background concentrations taken from Kearney Foundation of Soil Science, *Background Concentrations of Trace and Major Elements in California Soils*, dated March 1996

10 - Proposed upper estimate for background arsenic within undifferentiated urbanized flatland soils (Duverge, 2011)

11 - Results reported in milligrams per liter

Bold indicates the concentration is above the residential ESL

Shaded indicates the concentration is above the commercial/industrial ESL

mg/kg - milligrams per kilogram

-- - Not Analyzed

NE - Not Established

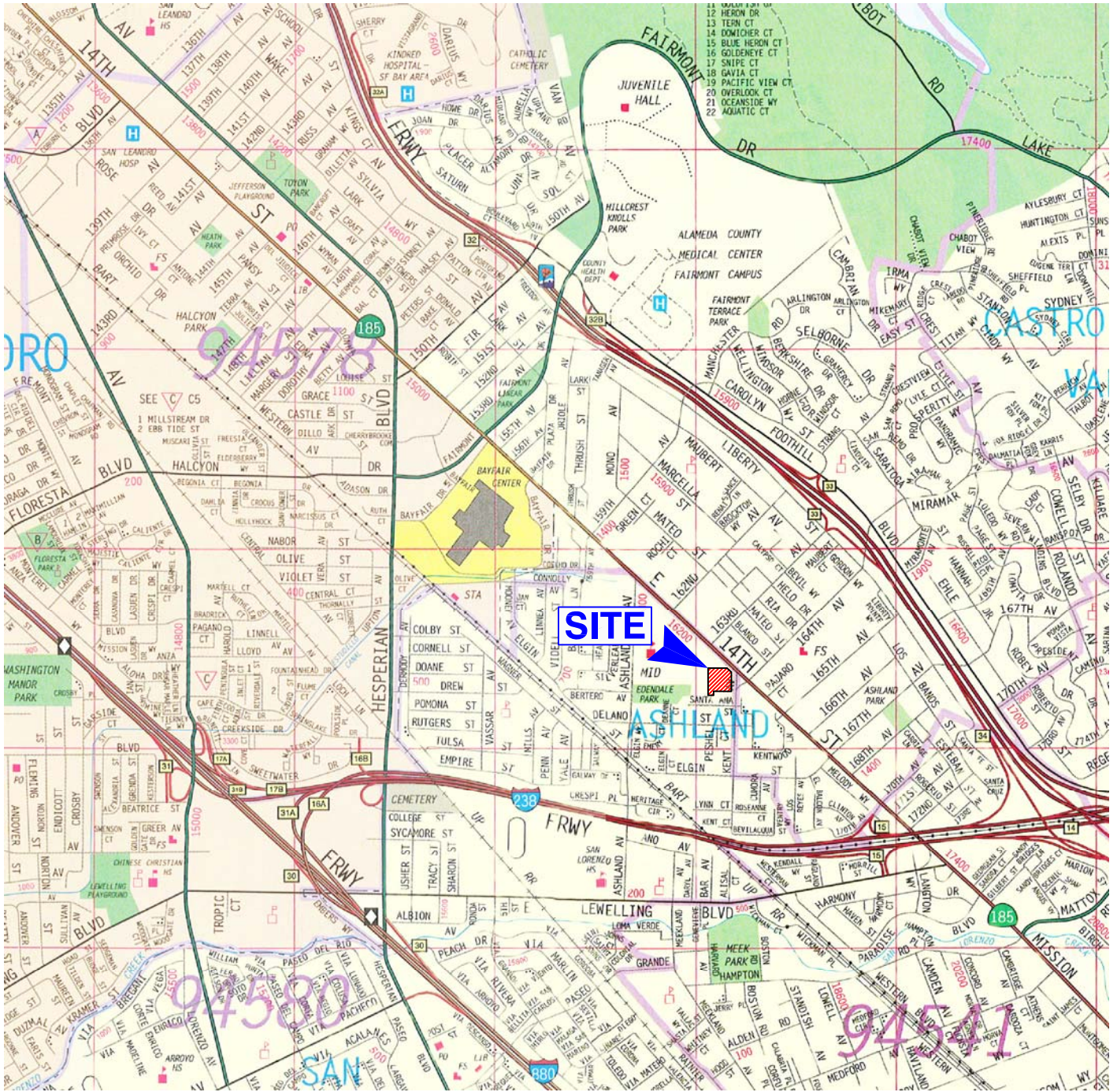
NA - Not Applicable

bgs - below ground surface

ND<X indicates concentration not detected above the laboratory detection limits of X

**TABLE 3 - GROUNDWATER SAMPLE ANALYTICAL RESULTS FOR
 TOTAL PETROLEUM HYDROCARBONS AND VOLATILE ORGANIC COMPOUNDS**

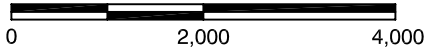
Sample ID	Date Sample Collected	Sample Depth (feet bgs)	TPH (mg/l)			VOCs (µg/l)
			TPH as gasoline	TPH as diesel	TPH as motor oil	All VOCs
OG2-GW	5/23/2013	8.0	ND<0.05	0.07	ND<0.06	ND
CP2-GW	5/23/2013	6.0	ND<0.05	0.09	ND<0.06	ND
ESLs			0.10	0.10	0.10	NA
<p>Notes: TPH = Total Petroleum Hydrocarbons by EPA Method 8015B VOCs = volatile organic compounds analyzed by EPA Method 8260B ESLs = San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels - Where Groundwater is a current or potential source of drinking water (May 2013, Table A) mg/l – milligrams per liter µg/l – micrograms per liter NA - Not Applicable bgs – below ground surface ND<X indicates concentration not detected above the laboratory detection limits of X</p>						



REFERENCE: METRO AREAS OF ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO, AND SANTA CLARA COUNTIES, THOMAS GUIDE, 2008.



SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore

SITE LOCATION

FIGURE

PROJECT NO.

DATE

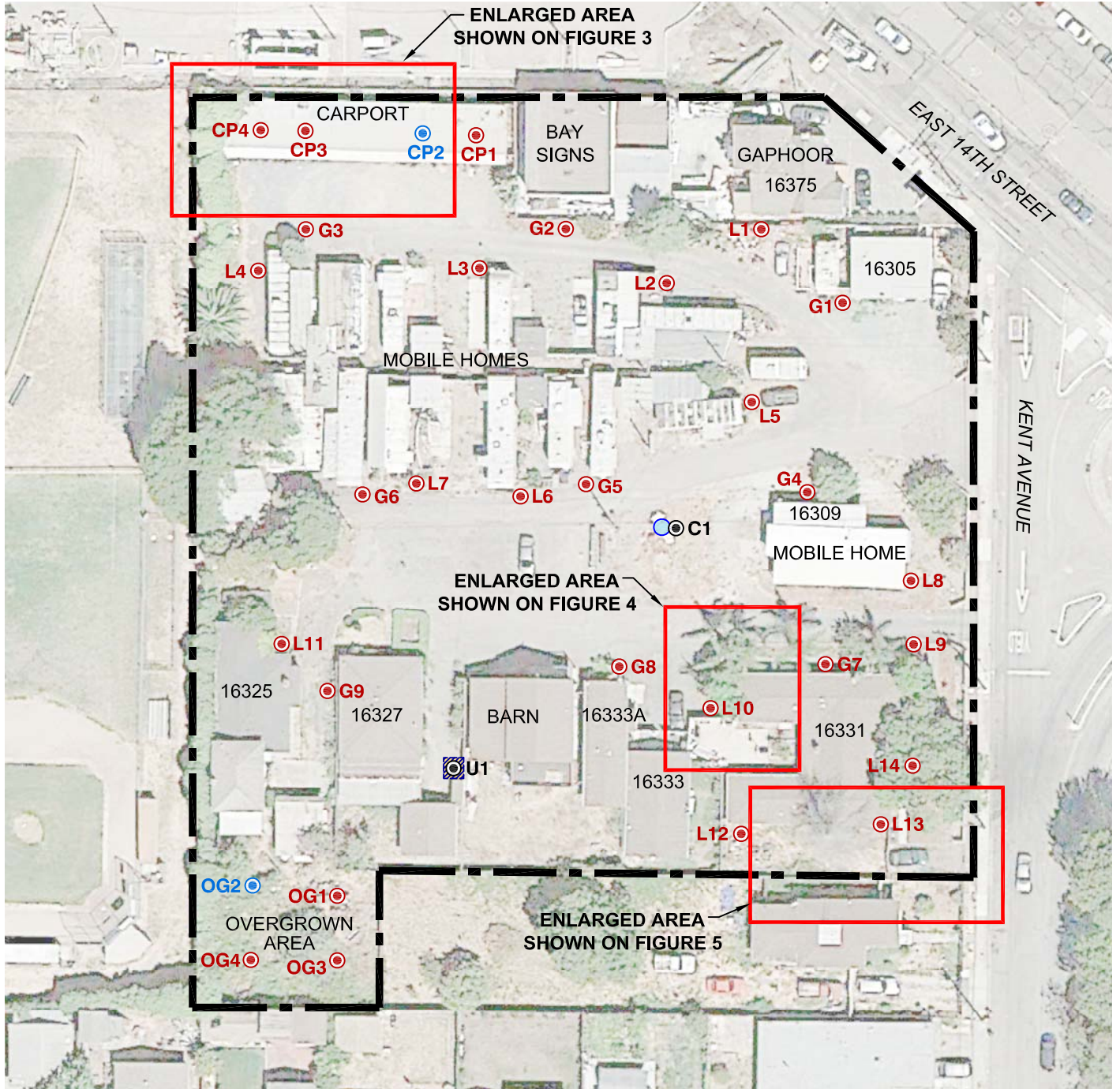
ASHLAND HOUSING PROJECT
16305, 16309, 16325, 16327, 16331, AND 16333 KENT AVENUE AND 16375 EAST 14TH STREET
ASHLAND, CALIFORNIA

1

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11/13

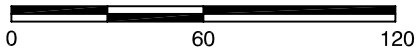
402090002-SL.dwg, Nov 21, 2013, 1:34pm, SN



REFERENCE: GOOGLE EARTH IMAGERY, 2013.



SCALE IN FEET



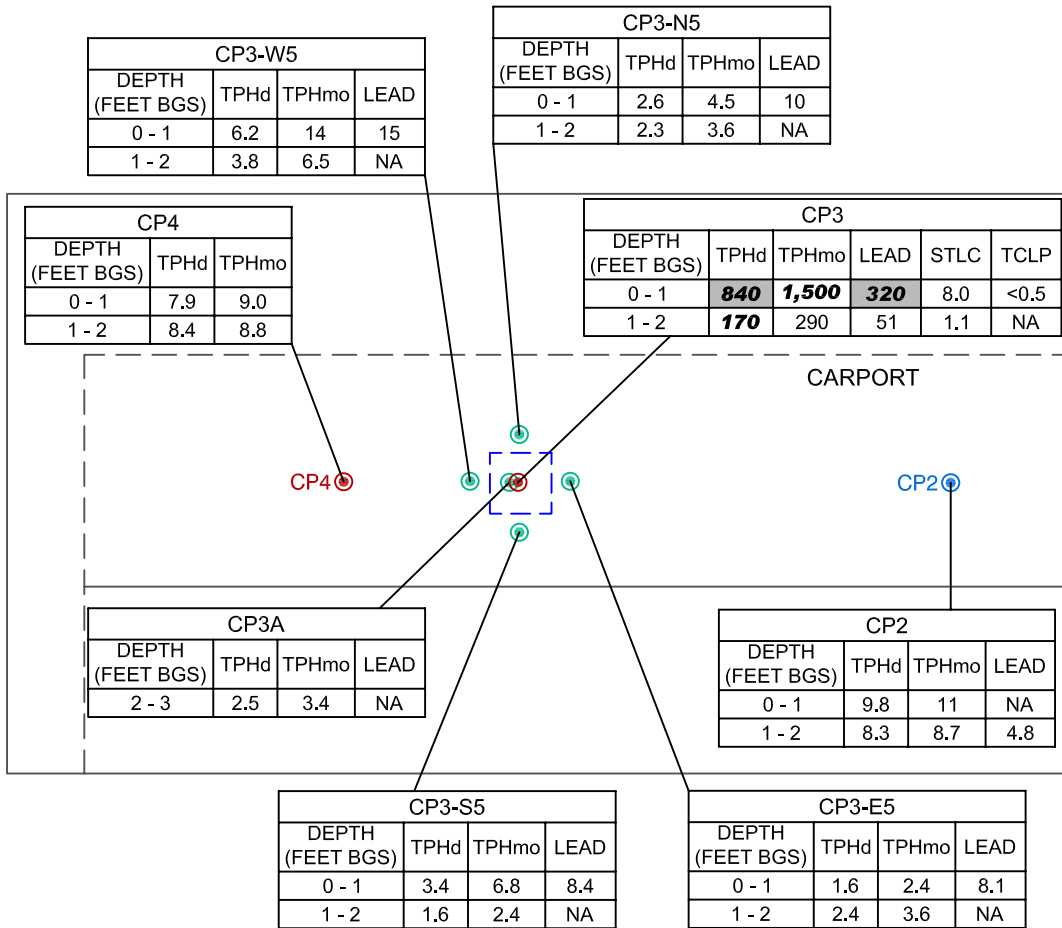
NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

- SITE BOUNDARY
- L13 SOIL SAMPLE LOCATION COLLECTED 5/23/13
- U1 SOIL SAMPLE LOCATION COLLECTED 9/25/13
- CP2 PREVIOUS SOIL AND GROUNDWATER SAMPLE LOCATION
- APPROXIMATE LOCATION OF 2-FOOT DIAMETER WATER CISTERN
- FORMER KNOWN UST TANK PIT

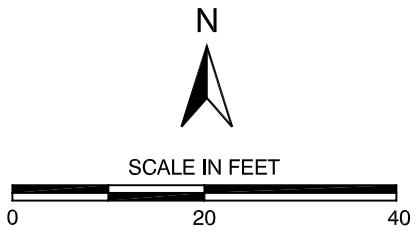
402090002-FSL-2.dwg, Nov 21, 2013, 1:36pm, SN

		PREVIOUS SAMPLE LOCATIONS		FIGURE
		ASHLAND HOUSING PROJECT 16305, 16309, 16325, 16327, 16331, AND 16333 KENT AVENUE AND 16375 EAST 14TH STREET ASHLAND, CALIFORNIA		2
PROJECT NO.	DATE			
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LEGEND

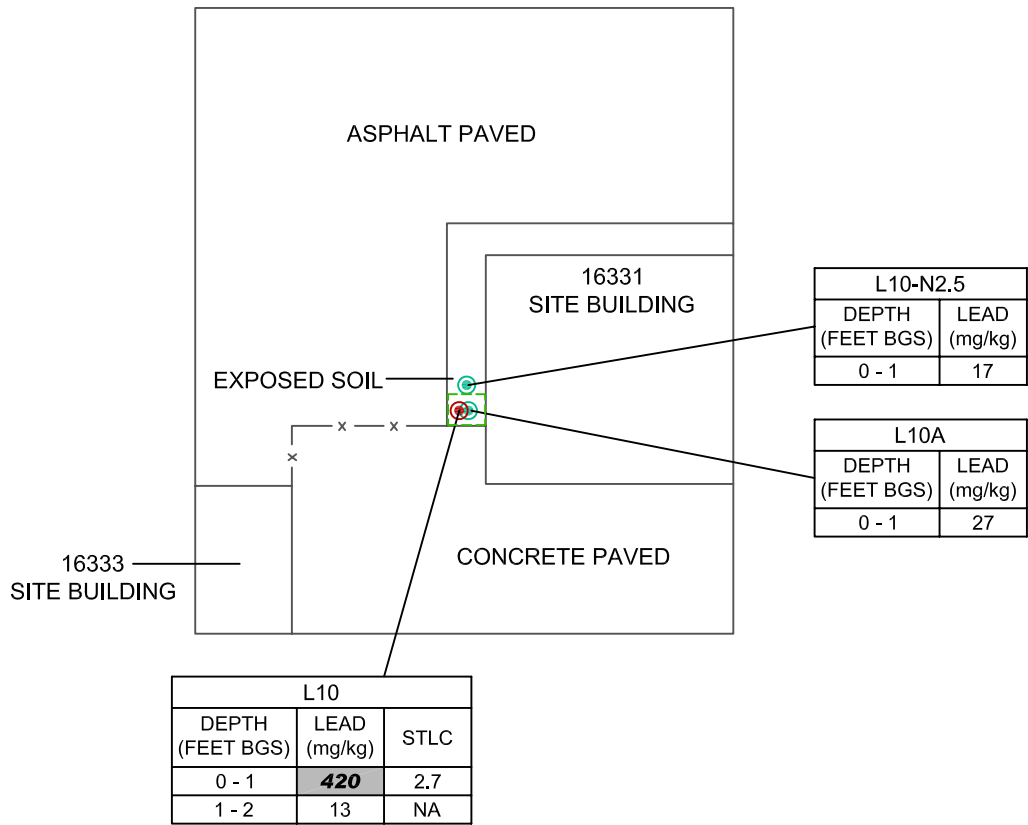
- SITE BOUNDARY
- ▭ AREA OF EXCAVATION TO 3 FEET BGS
- CP3-S5 STEP-OUT SOIL SAMPLE LOCATION COLLECTED 7/23/13
- CP4 SOIL SAMPLE LOCATION COLLECTED 5/23/13
- CP2 SOIL AND GROUNDWATER SAMPLE LOCATION COLLECTED 5/23/13
- ▭ SHADED INDICATES CONCENTRATION IS ABOVE ESL FOR COMMERCIAL/INDUSTRIAL LAND USE
- BOLD** BOLD INDICATES CONCENTRATION IS ABOVE ESL FOR RESIDENTIAL LAND USE
- BGS BELOW GROUND SURFACE
- NA NOT ANALYZED
- TPHd TOTAL PETROLEUM HYDROCARBONS AS DIESEL IN MILLIGRAMS PER KILOGRAM
- TPHmo TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL IN MILLIGRAMS PER KILOGRAM
- ESLs REGIONAL WATER QUALITY CONTROL BOARD ENVIRONMENTAL SCREENING LEVELS (MAY 2013, TABLE A)
- STLC SOLUBLE THRESHOLD LIMIT CONCENTRATION IN MILLIGRAMS PER LITER
- TCLP TOXICITY CHARACTERISTIC LEACHING POTENTIAL IN MILLIGRAMS PER LITER



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

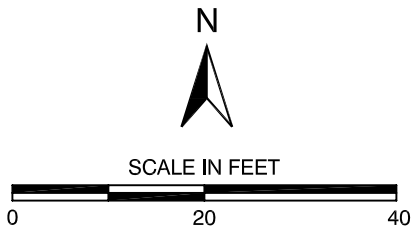
402090002-CP3-3.dwg, Nov 21, 2013, 1:37pm, SN

		BORING CP3 EXCAVATION AREA		FIGURE 3



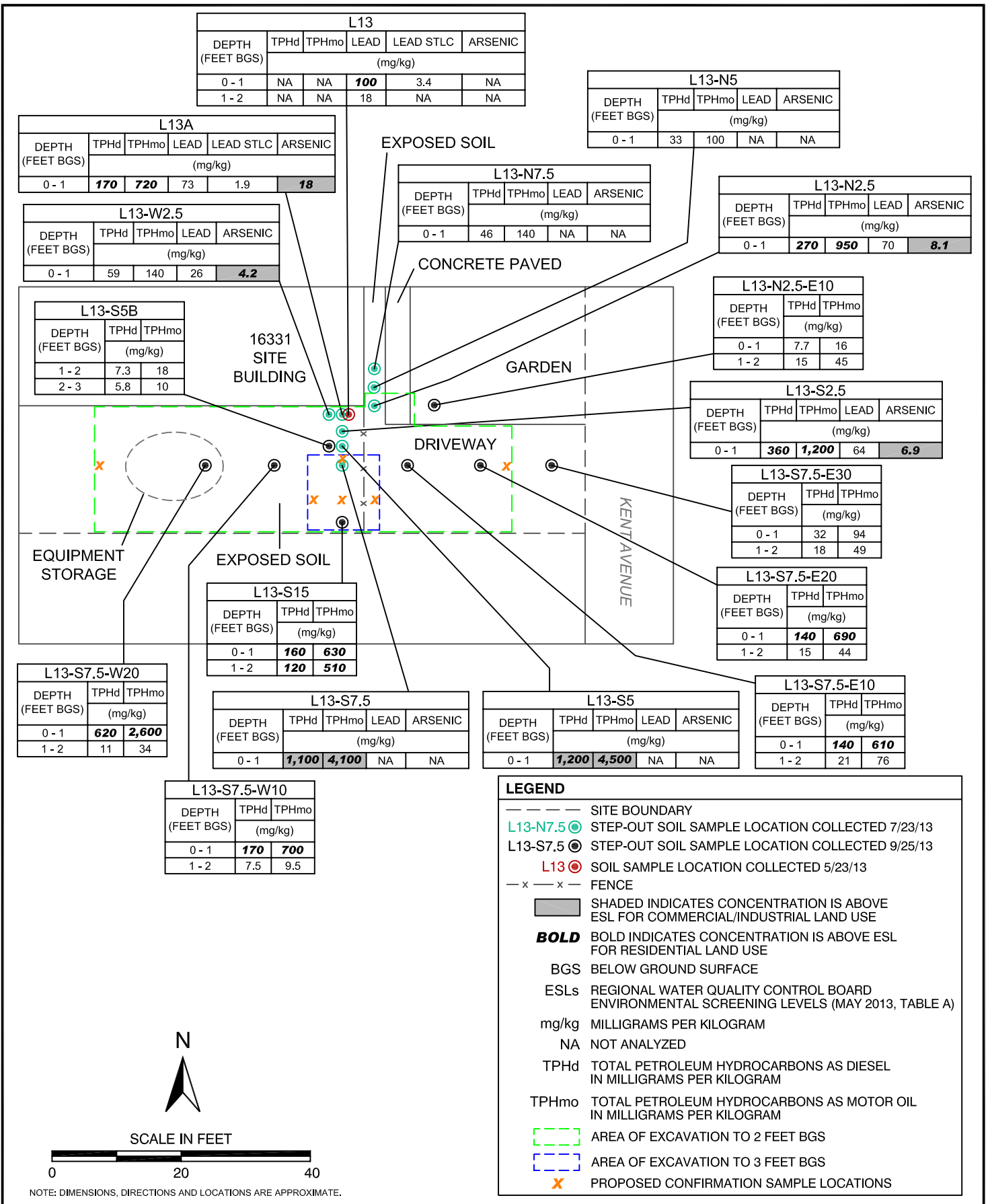
LEGEND

- L10-N2.5 STEP-OUT SOIL SAMPLE LOCATION COLLECTED 7/23/13
- L10 SOIL SAMPLE LOCATION COLLECTED 5/23/13
- x - - x - FENCE
- SHADED INDICATES CONCENTRATION IS ABOVE ESL FOR COMMERCIAL/INDUSTRIAL LAND USE
- BOLD** BOLD INDICATES CONCENTRATION IS ABOVE ESL FOR RESIDENTIAL LAND USE
- BGS BELOW GROUND SURFACE
- ESLs REGIONAL WATER QUALITY CONTROL BOARD ENVIRONMENTAL SCREENING LEVELS (MAY 2013, TABLE A)
- mg/kg MILLIGRAMS PER KILOGRAM
- NA NOT ANALYZED
- STLC SOLUBLE THRESHOLD LIMIT CONCENTRATION IN MILLIGRAMS PER LITER
- AREA OF EXCAVATION TO 2 FEET BGS



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

		BORING L10 EXCAVATION AREA	FIGURE
PROJECT NO.	DATE	ASHLAND HOUSING PROJECT 16305, 16309, 16325, 16327, 16331, AND 16333 KENT AVENUE AND 16375 EAST 14TH STREET ASHLAND, CALIFORNIA	4
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L13					
DEPTH (FEET BGS)	TPHd	TPHmo	LEAD	LEAD STLC	ARSENIC
(mg/kg)					
0 - 1	NA	NA	100	3.4	NA
1 - 2	NA	NA	18	NA	NA

L13-N5				
DEPTH (FEET BGS)	TPHd	TPHmo	LEAD	ARSENIC
(mg/kg)				
0 - 1	33	100	NA	NA

L13A					
DEPTH (FEET BGS)	TPHd	TPHmo	LEAD	LEAD STLC	ARSENIC
(mg/kg)					
0 - 1	170	720	73	1.9	18

L13-N7.5				
DEPTH (FEET BGS)	TPHd	TPHmo	LEAD	ARSENIC
(mg/kg)				
0 - 1	46	140	NA	NA

L13-N2.5				
DEPTH (FEET BGS)	TPHd	TPHmo	LEAD	ARSENIC
(mg/kg)				
0 - 1	270	950	70	8.1

L13-W2.5				
DEPTH (FEET BGS)	TPHd	TPHmo	LEAD	ARSENIC
(mg/kg)				
0 - 1	59	140	26	4.2

L13-S5B		
DEPTH (FEET BGS)	TPHd	TPHmo
(mg/kg)		
1 - 2	7.3	18
2 - 3	5.8	10

L13-N2.5-E10		
DEPTH (FEET BGS)	TPHd	TPHmo
(mg/kg)		
0 - 1	7.7	16
1 - 2	15	45

L13-S2.5				
DEPTH (FEET BGS)	TPHd	TPHmo	LEAD	ARSENIC
(mg/kg)				
0 - 1	360	1,200	64	6.9

L13-S7.5-E30		
DEPTH (FEET BGS)	TPHd	TPHmo
(mg/kg)		
0 - 1	32	94
1 - 2	18	49

L13-S7.5-E20		
DEPTH (FEET BGS)	TPHd	TPHmo
(mg/kg)		
0 - 1	140	690
1 - 2	15	44

L13-S7.5-W20		
DEPTH (FEET BGS)	TPHd	TPHmo
(mg/kg)		
0 - 1	620	2,600
1 - 2	11	34

L13-S15		
DEPTH (FEET BGS)	TPHd	TPHmo
(mg/kg)		
0 - 1	160	630
1 - 2	120	510

L13-S7.5				
DEPTH (FEET BGS)	TPHd	TPHmo	LEAD	ARSENIC
(mg/kg)				
0 - 1	1,100	4,100	NA	NA

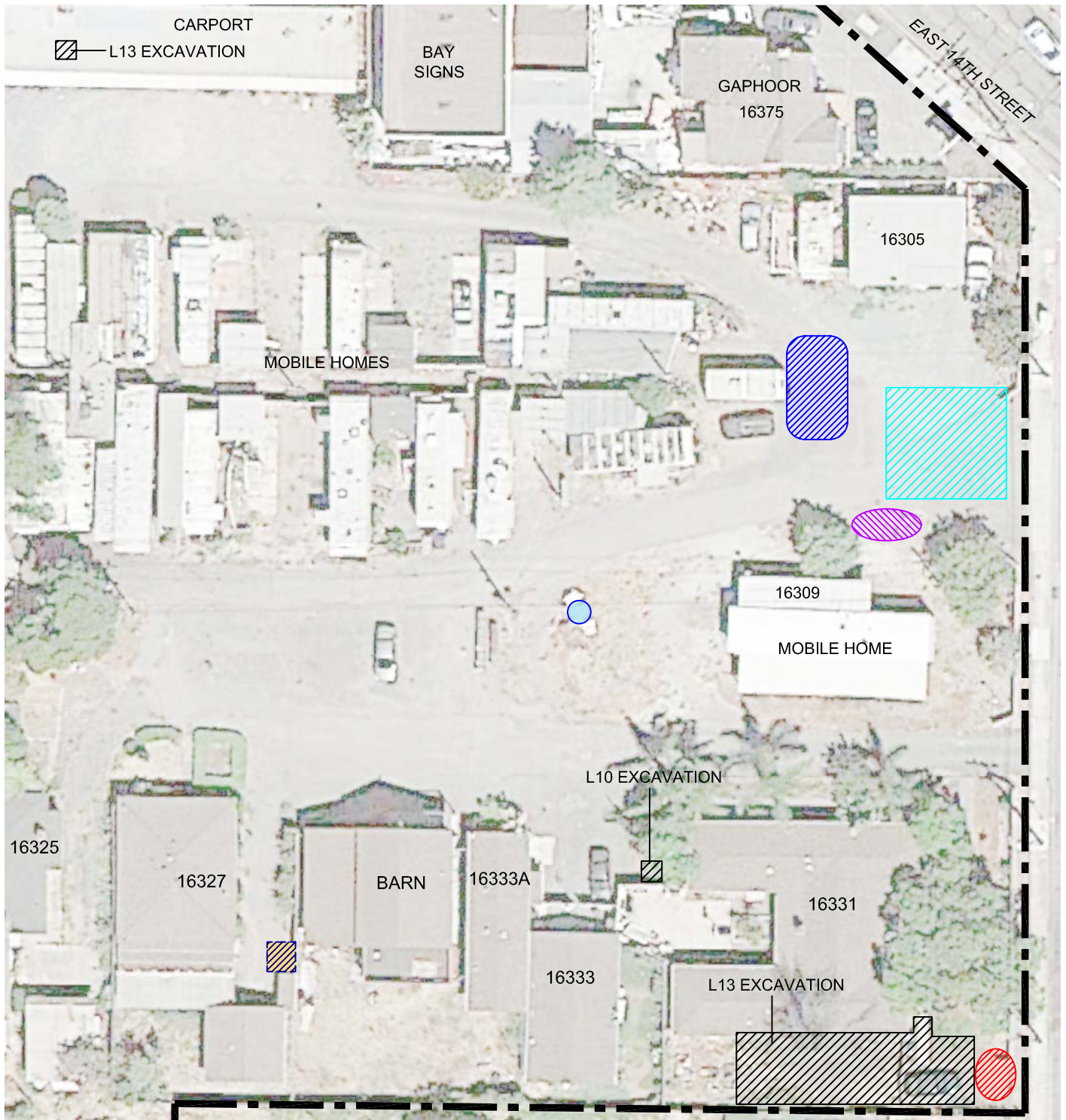
L13-S5				
DEPTH (FEET BGS)	TPHd	TPHmo	LEAD	ARSENIC
(mg/kg)				
0 - 1	1,200	4,500	NA	NA

L13-S7.5-E10		
DEPTH (FEET BGS)	TPHd	TPHmo
(mg/kg)		
0 - 1	140	610
1 - 2	21	76

L13-S7.5-W10		
DEPTH (FEET BGS)	TPHd	TPHmo
(mg/kg)		
0 - 1	170	700
1 - 2	7.5	9.5

402090002-L13-S.dwg, Nov 21, 2013, 1:39pm, SH

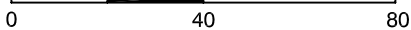
Ninyo & Moore		BORING L13 EXCAVATION AREA	FIGURE
PROJECT NO.	DATE	ASHLAND HOUSING PROJECT 16305, 16309, 16325, 16327, 16331, AND 16333 KENT AVENUE AND 16375 EAST 14TH STREET ASHLAND, CALIFORNIA	5
402090002	11/13		



REFERENCE: GOOGLE EARTH IMAGERY, 2013.



SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

- SITE BOUNDARY
- PROPOSED STOCKPILE LOCATION FOR KENT AVENUE UTILITY TRENCHING
- PROPOSED STOCKPILE LOCATION FOR L13 EXCAVATION
- APPROXIMATE EXISTING STOCKPILE
- PROPOSED DECONTAMINATION AREA
- APPROXIMATE LOCATION OF 2-FOOT DIAMETER WATER CISTERN
- APPROXIMATE EXCAVATION LOCATION
- FORMER KNOWN UST TANK PIT



STOCKPILE AND EXCAVATION LOCATIONS

FIGURE

PROJECT NO.	DATE
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ASHLAND HOUSING PROJECT
16305, 16309, 16325, 16327, 16331, AND 16333 KENT AVENUE AND 16375 EAST 14TH STREET
ASHLAND, CALIFORNIA

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16305, 16309, 16325, 16327, 16331, and 16333 Kent Avenue
And 16375 East 14th Street
Ashland, California

November 26, 2013
Project No. 402090002

APPENDIX A
BORING LOGS

BORING LOG EXPLANATION SHEET

DEPTH (feet)	Bulk Driven SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.
0	█					Bulk sample.
	█					Modified split-barrel drive sampler.
	▣					No recovery with modified split-barrel drive sampler.
	▣					Sample retained by others.
	▣					Standard Penetration Test (SPT).
5	▣					No recovery with a SPT.
	▣	XX/XX				Shelby tube sample. Distance pushed in inches/length of sample recovered in inches.
	▣					No recovery with Shelby tube sampler.
	▣					Continuous Push Sample.
	▣		∩			Seepage.
10	▣		∩			Groundwater encountered during drilling.
	▣		∩			Groundwater measured after drilling.
	▣				█	SM
	▣					ALLUVIUM: Solid line denotes unit change.
	▣					Dashed line denotes material change.
15	▣					Attitudes: Strike/Dip b: Bedding c: Contact j: Joint f: Fracture F: Fault cs: Clay Seam s: Shear bss: Basal Slide Surface sf: Shear Fracture sz: Shear Zone sbs: Sheared Bedding Surface
20	▣					The total depth line is a solid line that is drawn at the bottom of the boring.



BORING LOG















EXPLANATION OF BORING LOG SYMBOLS

PROJECT NO.

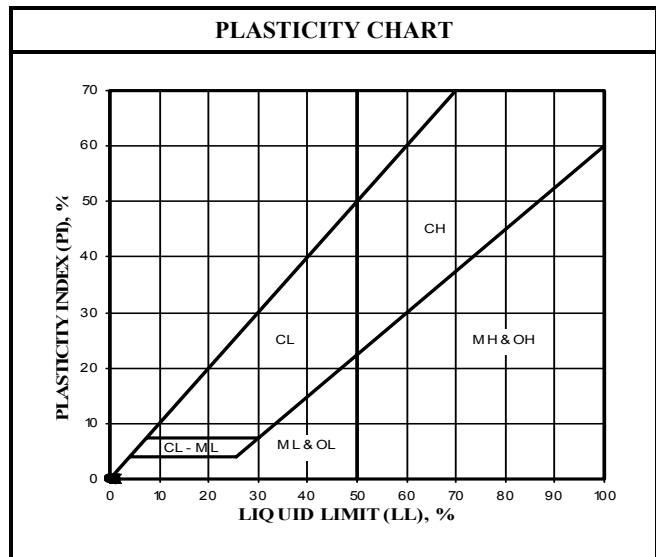
DATE
Rev. 01/03

FIGURE

U.S.C.S. METHOD OF SOIL CLASSIFICATION

MAJOR DIVISIONS	SYMBOL	TYPICAL NAMES
COARSE-GRAINED SOILS (More than 1/2 of soil >No. 200 sieve size)	GRAVELS (More than 1/2 of coarse fraction > No. 4 sieve size)	 GW Well graded gravels or gravel-sand mixtures, little or no fines
		 GP Poorly graded gravels or gravel-sand mixtures, little or no fines
		 GM Silty gravels, gravel-sand-silt mixtures
		 GC Clayey gravels, gravel-sand-clay mixtures
	SANDS (More than 1/2 of coarse fraction <No. 4 sieve size)	 SW Well graded sands or gravelly sands, little or no fines
		 SP Poorly graded sands or gravelly sands, little or no fines
		 SM Silty sands, sand-silt mixtures
		 SC Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (More than 1/2 of soil <No. 200 sieve size)	SILTS & CLAYS Liquid Limit <50	 ML Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with
		 CL Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean
		 OL Organic silts and organic silty clays of low plasticity
	SILTS & CLAYS Liquid Limit >50	 MH Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		 CH Inorganic clays of high plasticity, fat clays
		 OH Organic clays of medium to high plasticity, organic silty clays, organic silts
HIGHLY ORGANIC SOILS		Pt Peat and other highly organic soils

GRAIN SIZE CHART		
CLASSIFICATION	RANGE OF GRAIN SIZE	
	U.S. Standard Sieve Size	Grain Size in Millimeters
BOULDERS	Above 12"	Above 305
COBBLES	12" to 3"	305 to 76.2
GRAVEL Coarse	3" to No. 4	76.2 to 4.76
Fine	3" to 3/4" 3/4" to No. 4	76.2 to 19.1 19.1 to 4.76
SAND Coarse	No. 4 to No. 200	4.76 to 0.075
Medium	No. 4 to No. 10	4.76 to 2.00
Fine	No. 10 to No. 40 No. 40 to No. 200	2.00 to 0.420 0.420 to 0.075
SILT & CLAY	Below No. 200	Below 0.075



Ninyo & Moore

U.S.C.S. METHOD OF SOIL CLASSIFICATION

DEPTH (feet)	BULK SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.	
								3-8-13	B-1	
								GROUND ELEVATION	SHEET	OF
								37.5' ± MSL	1	3
								METHOD OF DRILLING 4" Mud Rotary - Mobile B-53		
								DRIVE WEIGHT	DROP	
								140 lbs (Auto Hammer)	30"	
								SAMPLED BY	LOGGED BY	REVIEWED BY
								LLB	LLB	NSD/PCC
								DESCRIPTION/INTERPRETATION		
0							SP-SM	ASPHALT CONCRETE: Approximately 2 inches thick.		
							CL	AGGREGATE BASE: Approximately 3 inches thick. Brown to gray, damp, medium dense, gravelly SAND with silt.		
								FILL: Dark to medium brown, moist, stiff, CLAY; few gravel.		
6							CL	ALLUVIUM: Medium brown, moist, stiff, silty CLAY; trace gravel; little sand.		
3								Black to medium brown; soft to firm.		
5							SP-SC	Black to medium brown, moist, very loose, SAND with clay.		
1							CL	Black to medium brown, moist, soft, silty CLAY.		
2								Medium brown.		
1										
10										
15		9			2.5			Dark gray, stiff.		
								PP=2.5 tsf		
20										



BORING LOG

ASHLAND HOUSING PROJECT
ASHLAND, CALIFORNIA

PROJECT NO.
402090002

DATE
10/13

FIGURE
A-1

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>3-8-13</u> BORING NO. <u>B-1</u>		
	Bulk	Driven							GROUND ELEVATION <u>37.5' ± MSL</u>	SHEET <u>2</u> OF <u>3</u>	METHOD OF DRILLING <u>4" Mud Rotary - Mobile B-53</u>
20			3					CL	DRIVE WEIGHT <u>140 lbs (Auto Hammer)</u> DROP <u>30"</u> SAMPLED BY <u>LLB</u> LOGGED BY <u>LLB</u> REVIEWED BY <u>NSD/PCC</u> DESCRIPTION/INTERPRETATION		
25			7	31.4	91.5				ALLUVIUM: (continued) Yellowish brown, moist, soft to firm, silty CLAY; few sand; trace gravel. Stiff.		
30			3						Light brown, soft to firm; little to some sand.		
35			10	27.6	94.5	1.25			Olive brown, stiff; few sand. PP=1.25 tsf		
40											



BORING LOG

ASHLAND HOUSING PROJECT
ASHLAND, CALIFORNIA

PROJECT NO.
402090002

DATE
10/13

FIGURE
A-2

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>3-8-13</u> BORING NO. <u>B-1</u>	
	Bulk	Driven							GROUND ELEVATION <u>37.5' ± MSL</u>	SHEET <u>3</u> OF <u>3</u>
									METHOD OF DRILLING <u>4" Mud Rotary - Mobile B-53</u>	
									DRIVE WEIGHT <u>140 lbs (Auto Hammer)</u> DROP <u>30"</u>	
									SAMPLED BY <u>LLB</u> LOGGED BY <u>LLB</u> REVIEWED BY <u>NSD/PCC</u>	
									DESCRIPTION/INTERPRETATION	
40			2					CL	<p><u>ALLUVIUM: (continued)</u> Olive brown, moist, soft, silty CLAY; little sand.</p>	
45			13	18.8	101.4	2.0			<p>Greenish gray, stiff to very stiff. PP=2.0 tsf</p>	
50			7						<p>Medium brown, stiff; few sand.</p>	
55									<p>Total Depth = 51.5 feet.</p> <p>The depth to groundwater was not evaluated due to the use of drilling fluid for the mud rotary borings.</p> <p>Backfilled with Portland cement grout on 3-8-13.</p> <p>PP=Unconfined compressive strength in tons per square foot (tsf) as evaluated by pocket penetrometer.</p>	
60										



BORING LOG

ASHLAND HOUSING PROJECT
ASHLAND, CALIFORNIA

PROJECT NO.
402090002

DATE
10/13

FIGURE
A-3

DEPTH (feet)	SAMPLES Bulk Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>3-8-13</u> BORING NO. <u>B-2</u>			
								GROUND ELEVATION <u>39.75' ± MSL</u> SHEET <u>1</u> OF <u>3</u>		METHOD OF DRILLING <u>4" Mud Rotary - Mobile B-53</u>	
								DRIVE WEIGHT <u>140 lbs (Auto Hammer)</u> DROP <u>30"</u>		SAMPLED BY <u>LLB</u> LOGGED BY <u>LLB</u> REVIEWED BY <u>NSD/PCC</u>	
								DESCRIPTION/INTERPRETATION			
0							SP-SM	ASPHALT CONCRETE: Approximately 1.75 inches thick.			
							CL	AGGREGATE BASE: Approximately 2.5 inches thick. Brown to gray, damp, medium dense, gravelly SAND with silt.			
								FILL: Dark brown, moist, stiff, CLAY; trace gravel.			
			18.6	104.3	1.25		SC-SM	ALLUVIUM: Dark to medium brown, moist, loose, silty clayey SAND; trace gravel. PP=1.25 tsf			
8								Very loose.			
2								Loose.			
4								Brown, moist to wet, very loose, silty SAND; some gravel.			
1							SM				
6							CL	Dark brown, moist, stiff, silty CLAY; few sand; scattered organics.			
10								Medium brown.			
15		10									
20											







BORING LOG

ASHLAND HOUSING PROJECT
ASHLAND, CALIFORNIA

PROJECT NO.
402090002

DATE
10/13

FIGURE
A-4

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION			
	Bulk	Driven							DATE DRILLED	BORING NO.	GROUND ELEVATION	SHEET
20			19			2.75		CL	DATE DRILLED 3-8-13 BORING NO. B-2 GROUND ELEVATION 39.75' ± MSL SHEET 2 OF 3 METHOD OF DRILLING 4" Mud Rotary - Mobile B-53 DRIVE WEIGHT 140 lbs (Auto Hammer) DROP 30" SAMPLED BY LLB LOGGED BY LLB REVIEWED BY NSD/PCC			
25			3					CL	ALLUVIUM:(continued) Yellowish brown, moist, very stiff, silty CLAY; trace sand. PP=2.75 tsf Light brown, soft to firm.			
30			12					SC	Medium brown, stiff. Medium brown, moist to wet, loose, clayey SAND.			
35			3					CL	Medium brown, moist, soft to firm, silty CLAY.			
40												




BORING LOG

ASHLAND HOUSING PROJECT
ASHLAND, CALIFORNIA

PROJECT NO.
402090002

DATE
10/13

FIGURE
A-5

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>3-8-13</u> BORING NO. <u>B-2</u>		
	Bulk	Driven							GROUND ELEVATION <u>39.75' ± MSL</u>	SHEET <u>3</u> OF <u>3</u>	METHOD OF DRILLING <u>4" Mud Rotary - Mobile B-53</u>
40			10			1.0		CL	<p>DRIVE WEIGHT <u>140 lbs (Auto Hammer)</u> DROP <u>30"</u></p> <p>SAMPLED BY <u>LLB</u> LOGGED BY <u>LLB</u> REVIEWED BY <u>NSD/PCC</u></p> <p>DESCRIPTION/INTERPRETATION</p>		
45			6						<p><u>ALLUVIUM</u>:(continued) Light yellowish brown, moist, stiff, silty CLAY; little sand. PP=1.0 tsf</p> <p>Light olive brown.</p>		
50			32						<p>Olive brown, hard; little sand.</p>		
55									<p>Total Depth = 51.5 feet.</p> <p>The depth to groundwater was not evaluated due to the use of drilling fluid for the mud rotary borings.</p> <p>Backfilled with Portland cement concrete on 3-8-13.</p> <p>PP=Unconfined compressive strength in tons per square foot (tsf) as evaluated by pocket penetrometer.</p>		
60											



BORING LOG

ASHLAND HOUSING PROJECT
ASHLAND, CALIFORNIA

PROJECT NO.
402090002

DATE
10/13

FIGURE
A-6

DEPTH (feet)	BULK SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.	
								3-8-13	B-3	
								GROUND ELEVATION	SHEET	OF
								38.25' ± MSL	1	1
								METHOD OF DRILLING		
								8" Hollow Stem Mobile B-53		
								DRIVE WEIGHT	DROP	
								140 lbs (Auto Hammer)	30"	
								SAMPLED BY	LOGGED BY	REVIEWED BY
								LLB	LLB	NSD/PCC
								DESCRIPTION/INTERPRETATION		
0							SP-SM	ASPHALT CONCRETE: Approximately 2 inches thick.		
							CL	AGGREGATE BASE: Approximately 3 inches thick. Brown to gray, damp, medium dense, gravelly SAND with silt.		
								FILL: Dark brown, moist, firm to stiff, CLAY; few sand; trace gravel.		
5										
9										
							CL	ALLUVIUM: Medium brown, moist, stiff, sandy CLAY; some sand. Soft, little sand.		
5								Saturated.		
								Stiff.		
10								Total Depth = 10 feet.		
								Groundwater was measured at a depth of approximately 7 feet in borehole at about 1 hour of completion of drilling. Groundwater may rise to a level higher than that measured in borehole due to relatively slow rate of seepage in clay and several other factors as discussed in the report.		
								Backfilled with Portland cement concrete on 3-8-13.		
15										
20										




BORING LOG

ASHLAND HOUSING PROJECT
ASHLAND, CALIFORNIA

PROJECT NO.
402090002

DATE
10/13

FIGURE
A-7

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>5-23-13</u> BORING NO. <u>CP2</u>		
	Bulk	Driven							GROUND ELEVATION <u>43' ± MSL</u>	SHEET <u>1</u> OF <u>1</u>	METHOD OF DRILLING <u>Direct Push</u>
0						0		CL	SAMPLED BY <u>SFP</u> LOGGED BY <u>SFP</u> REVIEWED BY <u>KML</u>		
0						0			DESCRIPTION/INTERPRETATION		
									<p><u>ALLUVIUM:</u> Dark brown, moist, silty sandy CLAY; trace gravel.</p> <p>Light brown, moist sandy CLAY.</p> <p>Wet.</p> <p>Dark brown.</p>		
5						0					
10						0					
15						0			<p>Total Depth = 15 feet bgs.</p> <p>Groundwater encountered at 8 feet bgs.</p> <p>Boring was tremie grouted from the total depth to the surface.</p>		
20						0					





BORING LOG

ASHLAND HOUSING PROJECT
ASHLAND, CALIFORNIA

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402090002

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10/13

FIGURE
A-8

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION					
	Bulk	Driven							DATE DRILLED	BORING NO.	GROUND ELEVATION	SHEET	OF	
									5-23-13	OG2	43' ± MSL	1	1	
									Direct Push/Hand Auger					
									N/A	N/A				
									SFP	SFP	KML			
0						0		SC			<u>ALLUVIUM:</u> Dark brown, moist, clayey SAND; fine to coarse grained, few silt.			
						0								
								CL			Light brown, moist, sandy CLAY.			
5						0					Wet.			
10						0					Total Depth = 10 feet bgs.			
											Groundwater encountered at 6 feet bgs.			
											Boring was tremie grouted from the total depth to the surface.			
15														
20														



BORING LOG

ASHLAND HOUSING PROJECT
ASHLAND, CALIFORNIA

PROJECT NO.
402090002

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10/13

FIGURE
A-9

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>9-25-13</u> BORING NO. <u>C1</u>		
	Bulk Driven								GROUND ELEVATION <u>43' ± MSL</u>	SHEET <u>1</u> OF <u>1</u>	METHOD OF DRILLING <u>DIRECT PUSH</u>
0						0.0	[Hatched Pattern]	SC	SAMPLED BY <u>MAT</u> LOGGED BY <u>MAT</u> REVIEWED BY <u>KML</u>		
5						0.0			DESCRIPTION/INTERPRETATION <u>ALLUVIUM:</u> Dark brown, moist, clayey SAND; fine to coarse grained; few silt.		
10									Total Depth = 8 feet. Boring was tremie grouted from the total depth to the surface.		
15											
20											



BORING LOG

ASHLAND HOUSING PROJECT
ASHLAND, CALIFORNIA

PROJECT NO.
402090002

DATE
10/13

FIGURE
A-10

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION																					
	Bulk Driven								DATE DRILLED	BORING NO.	GROUND ELEVATION	SHEET	OF																	
									DATE DRILLED	9-25-13	BORING NO.	C1	GROUND ELEVATION	43' ± MSL	SHEET	1	OF	1	METHOD OF DRILLING	DIRECT PUSH	DRIVE WEIGHT	NA	DROP	NA	SAMPLED BY	MAT	LOGGED BY	MAT	REVIEWED BY	KML
0								SC	<u>ASPHALT CONCRETE</u> : Approximately 4 inches thick. <u>ALLUVIUM</u> : Dark brown, moist, clayey SAND; fine to coarse grained; few silt.																					
5					0.0																									
					0.0				Total Depth = 8 feet. Boring was tremie grouted from the total depth to the surface.																					
10																														
15																														
20																														



BORING LOG

ASHLAND HOUSING PROJECT
ASHLAND, CALIFORNIA

PROJECT NO.
402090002

DATE
10/13

FIGURE
A-11

16305, 16309, 16325, 16327, 16331, and 16333 Kent Avenue
And 16375 East 14th Street
Ashland, California

November 26, 2013
Project No. 402090002

APPENDIX B
LABORATORY ANALYTICAL REPORTS

June 04, 2013

Peter Sims
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
Tel: (510) 633-5640
Fax:(510) 633-5646



Re: ATL Work Order Number : 1301538
Client Reference : Kent Ave, 402090002

Enclosed are the results for sample(s) received on May 24, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
OG1-0-1	1301538-01	Soil	5/23/13 10:10	5/24/13 8:30
OG2-0-1	1301538-02	Soil	5/23/13 9:40	5/24/13 8:30
OG3-0-1	1301538-03	Soil	5/23/13 9:50	5/24/13 8:30
OG4-0-1	1301538-04	Soil	5/23/13 10:00	5/24/13 8:30
OG1-1-2	1301538-05	Soil	5/23/13 10:15	5/24/13 8:30
OG2-1-2	1301538-06	Soil	5/23/13 9:45	5/24/13 8:30
OG3-1-2	1301538-07	Soil	5/23/13 9:55	5/24/13 8:30
OG4-1-2	1301538-08	Soil	5/23/13 10:05	5/24/13 8:30
OG2-GW	1301538-09	Groundwater	5/23/13 10:40	5/24/13 8:30
CP1-0-1	1301538-10	Soil	5/23/13 7:45	5/24/13 8:30
CP2-0-1	1301538-11	Soil	5/23/13 8:20	5/24/13 8:30
CP3-0-1	1301538-12	Soil	5/23/13 8:10	5/24/13 8:30
CP4-0-1	1301538-13	Soil	5/23/13 7:55	5/24/13 8:30
CP1-1-2	1301538-14	Soil	5/23/13 7:50	5/24/13 8:30
CP2-1-2	1301538-15	Soil	5/23/13 8:25	5/24/13 8:30
CP3-1-2	1301538-16	Soil	5/23/13 8:15	5/24/13 8:30
CP4-1-2	1301538-17	Soil	5/23/13 8:00	5/24/13 8:30
CP2-GW	1301538-18	Groundwater	5/23/13 10:30	5/24/13 8:30
G1-0-1	1301538-19	Soil	5/23/13 9:10	5/24/13 8:30
G2-0-1	1301538-20	Soil	5/23/13 9:00	5/24/13 8:30
G3-0-1	1301538-21	Soil	5/23/13 8:40	5/24/13 8:30
G4-0-1	1301538-22	Soil	5/23/13 12:50	5/24/13 8:30
G5-0-1	1301538-23	Soil	5/23/13 11:50	5/24/13 8:30
G6-0-1	1301538-24	Soil	5/23/13 12:00	5/24/13 8:30
G7-0-1	1301538-25	Soil	5/23/13 12:25	5/24/13 8:30
G8-0-1	1301538-26	Soil	5/23/13 12:15	5/24/13 8:30
G9-0-1	1301538-27	Soil	5/23/13 12:10	5/24/13 8:30
L11-0-1	1301538-28	Soil	5/23/13 12:05	5/24/13 8:30
L1-0-1	1301538-39	Soil	5/23/13 9:15	5/24/13 8:30
L2-0-1	1301538-40	Soil	5/23/13 9:05	5/24/13 8:30
L3-0-1	1301538-41	Soil	5/23/13 8:50	5/24/13 8:30
L4-0-1	1301538-42	Soil	5/23/13 8:30	5/24/13 8:30
L5-0-1	1301538-43	Soil	5/23/13 11:30	5/24/13 8:30
L6-0-1	1301538-44	Soil	5/23/13 11:40	5/24/13 8:30
L7-0-1	1301538-45	Soil	5/23/13 11:55	5/24/13 8:30
L8-0-1	1301538-46	Soil	5/23/13 12:40	5/24/13 8:30
L9-0-1	1301538-47	Soil	5/23/13 12:30	5/24/13 8:30



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

L10-0-1	1301538-48	Soil	5/23/13 12:20	5/24/13 8:30
Composite 2	1301538-59	Soil	5/23/13 0:00	5/24/13 8:30
Composite 1	1301538-60	Soil	5/23/13 0:00	5/24/13 8:30
Composite A	1301538-61	Soil	5/23/13 0:00	5/24/13 8:30
Composite B	1301538-62	Soil	5/23/13 0:00	5/24/13 8:30
Composite C	1301538-63	Soil	5/23/13 0:00	5/24/13 8:30
Composite D	1301538-64	Soil	5/23/13 0:00	5/24/13 8:30
Composite E	1301538-65	Soil	5/23/13 0:00	5/24/13 8:30
Composite F	1301538-66	Soil	5/23/13 0:00	5/24/13 8:30



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID OG1-0-1

Lab ID: 1301538-01

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3E0556	05/28/2013	05/28/13 12:36	
Surrogate: 4-Bromofluorobenzene	96.7 %		54 - 150		B3E0556	05/28/2013	05/28/13 12:36	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	4.4	1.0	NA	1	B3E0636	05/30/2013	05/30/13 11:44	
ORO	2.7	1.0	NA	1	B3E0636	05/30/2013	05/30/13 11:44	
Surrogate: p-Terphenyl	74.4 %		33 - 147		B3E0636	05/30/2013	05/30/13 11:44	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,1-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,1-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,1-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,2-Dibromoethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,2-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,3-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
2,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
2-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID OG1-0-1

Lab ID: 1301538-01

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
4-Isopropyltoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Benzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Bromobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Bromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Bromodichloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Bromoform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Bromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Carbon disulfide	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Carbon tetrachloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Chlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Chloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Chloroform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Chloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Di-isopropyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Dibromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Dibromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Dichlorodifluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Ethyl Acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Ethyl Ether	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Ethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Freon-113	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Hexachlorobutadiene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Isopropylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
m,p-Xylene	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Methylene chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
MTBE	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
n-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
n-Propylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Naphthalene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
o-Xylene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
sec-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Styrene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
tert-Amyl methyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID OG1-0-1

Lab ID: 1301538-01

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	100	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
tert-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Tetrachloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Toluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Trichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Trichlorofluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Vinyl acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
Vinyl chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:32	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>117 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 15:32</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.7 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 15:32</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>121 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 15:32</i>	
<i>Surrogate: Toluene-d8</i>	<i>97.7 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 15:32</i>	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID OG2-0-1

Lab ID: 1301538-02

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3E0556	05/28/2013	05/28/13 12:55	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.2 %		54 - 150		B3E0556	05/28/2013	05/28/13 12:55	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5.8	1.0	NA	1	B3E0636	05/30/2013	05/30/13 15:21	
ORO	7.5	1.0	NA	1	B3E0636	05/30/2013	05/30/13 15:21	
<i>Surrogate: p-Terphenyl</i>	75.4 %		33 - 147		B3E0636	05/30/2013	05/30/13 15:21	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,1-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,1-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,1-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,2-Dibromoethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,2-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,3-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
2,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
2-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID OG2-0-1

Lab ID: 1301538-02

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
4-Isopropyltoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Benzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Bromobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Bromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Bromodichloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Bromoform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Bromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Carbon disulfide	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Carbon tetrachloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Chlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Chloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Chloroform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Chloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Di-isopropyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Dibromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Dibromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Dichlorodifluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Ethyl Acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Ethyl Ether	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Ethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Freon-113	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Hexachlorobutadiene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Isopropylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
m,p-Xylene	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Methylene chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
MTBE	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
n-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
n-Propylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Naphthalene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
o-Xylene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
sec-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Styrene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
tert-Amyl methyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Client Sample ID OG2-0-1

Lab ID: 1301538-02

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	100	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
tert-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Tetrachloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Toluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Trichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Trichlorofluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Vinyl acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
Vinyl chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 15:51	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>120 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 15:51</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>93.1 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 15:51</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>117 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 15:51</i>	
<i>Surrogate: Toluene-d8</i>	<i>97.6 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 15:51</i>	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID OG3-0-1

Lab ID: 1301538-03

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3E0556	05/28/2013	05/28/13 13:13	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94.2 %</i>		<i>54 - 150</i>		B3E0556	05/28/2013	<i>05/28/13 13:13</i>	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3.6	1.0	NA	1	B3E0636	05/30/2013	05/30/13 12:00	
ORO	2.3	1.0	NA	1	B3E0636	05/30/2013	05/30/13 12:00	
<i>Surrogate: p-Terphenyl</i>	<i>73.8 %</i>		<i>33 - 147</i>		B3E0636	05/30/2013	<i>05/30/13 12:00</i>	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,1-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,1-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,1-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,2-Dibromoethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,2-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,3-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
2,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
2-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID OG3-0-1

Lab ID: 1301538-03

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
4-Isopropyltoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Benzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Bromobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Bromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Bromodichloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Bromoform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Bromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Carbon disulfide	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Carbon tetrachloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Chlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Chloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Chloroform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Chloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Di-isopropyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Dibromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Dibromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Dichlorodifluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Ethyl Acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Ethyl Ether	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Ethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Freon-113	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Hexachlorobutadiene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Isopropylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
m,p-Xylene	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Methylene chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
MTBE	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
n-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
n-Propylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Naphthalene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
o-Xylene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
sec-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Styrene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
tert-Amyl methyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID OG3-0-1

Lab ID: 1301538-03

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	100	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
tert-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Tetrachloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Toluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Trichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Trichlorofluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Vinyl acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
Vinyl chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:09	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>116 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 16:09</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>92.0 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 16:09</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>119 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 16:09</i>	
<i>Surrogate: Toluene-d8</i>	<i>97.6 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 16:09</i>	



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Client Sample ID OG4-0-1

Lab ID: 1301538-04

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3E0556	05/28/2013	05/28/13 13:32	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>100 %</i>		<i>54 - 150</i>		B3E0556	05/28/2013	<i>05/28/13 13:32</i>	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3.4	1.0	NA	1	B3E0636	05/30/2013	05/30/13 13:57	
ORO	3.1	1.0	NA	1	B3E0636	05/30/2013	05/30/13 13:57	
<i>Surrogate: p-Terphenyl</i>	<i>73.4 %</i>		<i>33 - 147</i>		B3E0636	05/30/2013	<i>05/30/13 13:57</i>	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,1-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,1-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,1-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,2-Dibromoethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,2-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,3-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
2,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
2-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID OG4-0-1

Lab ID: 1301538-04

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
4-Isopropyltoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Benzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Bromobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Bromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Bromodichloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Bromoform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Bromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Carbon disulfide	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Carbon tetrachloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Chlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Chloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Chloroform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Chloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Di-isopropyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Dibromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Dibromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Dichlorodifluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Ethyl Acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Ethyl Ether	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Ethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Freon-113	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Hexachlorobutadiene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Isopropylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
m,p-Xylene	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Methylene chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
MTBE	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
n-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
n-Propylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Naphthalene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
o-Xylene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
sec-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Styrene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
tert-Amyl methyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID OG4-0-1

Lab ID: 1301538-04

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	100	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
tert-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Tetrachloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Toluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Trichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Trichlorofluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Vinyl acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
Vinyl chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:28	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>120 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 16:28</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94.4 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 16:28</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>122 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 16:28</i>	
<i>Surrogate: Toluene-d8</i>	<i>96.9 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 16:28</i>	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID OG1-1-2

Lab ID: 1301538-05

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3E0556	05/28/2013	05/28/13 13:51	
Surrogate: 4-Bromofluorobenzene	93.0 %		54 - 150		B3E0556	05/28/2013	05/28/13 13:51	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	4.5	1.0	NA	1	B3E0636	05/30/2013	05/30/13 12:50	
ORO	3.9	1.0	NA	1	B3E0636	05/30/2013	05/30/13 12:50	
Surrogate: p-Terphenyl	77.5 %		33 - 147		B3E0636	05/30/2013	05/30/13 12:50	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,1-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,1-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,1-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,2-Dibromoethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,2-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,3-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
2,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
2-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID OG1-1-2

Lab ID: 1301538-05

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
4-Isopropyltoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Benzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Bromobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Bromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Bromodichloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Bromoform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Bromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Carbon disulfide	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Carbon tetrachloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Chlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Chloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Chloroform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Chloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Di-isopropyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Dibromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Dibromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Dichlorodifluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Ethyl Acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Ethyl Ether	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Ethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Freon-113	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Hexachlorobutadiene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Isopropylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
m,p-Xylene	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Methylene chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
MTBE	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
n-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
n-Propylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Naphthalene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
o-Xylene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
sec-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Styrene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
tert-Amyl methyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID OG1-1-2

Lab ID: 1301538-05

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	100	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
tert-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Tetrachloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Toluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Trichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Trichlorofluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Vinyl acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
Vinyl chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 16:47	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>120 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 16:47</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>89.8 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 16:47</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>124 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 16:47</i>	
<i>Surrogate: Toluene-d8</i>	<i>94.0 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 16:47</i>	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID OG2-1-2

Lab ID: 1301538-06

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3E0556	05/28/2013	05/28/13 14:09	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>106 %</i>		<i>54 - 150</i>		B3E0556	05/28/2013	<i>05/28/13 14:09</i>	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5.3	1.0	NA	1	B3E0636	05/30/2013	05/30/13 12:17	
ORO	3.5	1.0	NA	1	B3E0636	05/30/2013	05/30/13 12:17	
<i>Surrogate: p-Terphenyl</i>	<i>103 %</i>		<i>33 - 147</i>		B3E0636	05/30/2013	<i>05/30/13 12:17</i>	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,1-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,1-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,1-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,2-Dibromoethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,2-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,3-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
2,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
2-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID OG2-1-2

Lab ID: 1301538-06

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
4-Isopropyltoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Benzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Bromobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Bromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Bromodichloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Bromoform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Bromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Carbon disulfide	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Carbon tetrachloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Chlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Chloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Chloroform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Chloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Di-isopropyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Dibromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Dibromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Dichlorodifluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Ethyl Acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Ethyl Ether	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Ethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Freon-113	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Hexachlorobutadiene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Isopropylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
m,p-Xylene	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Methylene chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
MTBE	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
n-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
n-Propylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Naphthalene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
o-Xylene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
sec-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Styrene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
tert-Amyl methyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID OG2-1-2

Lab ID: 1301538-06

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	100	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
tert-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Tetrachloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Toluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Trichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Trichlorofluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Vinyl acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
Vinyl chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:05	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>128 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 17:05</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>92.8 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 17:05</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>129 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 17:05</i>	
<i>Surrogate: Toluene-d8</i>	<i>98.8 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 17:05</i>	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID OG3-1-2

Lab ID: 1301538-07

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3E0556	05/28/2013	05/28/13 15:04	
Surrogate: 4-Bromofluorobenzene	95.1 %		54 - 150		B3E0556	05/28/2013	05/28/13 15:04	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	6.8	1.0	NA	1	B3E0636	05/30/2013	05/30/13 13:07	
ORO	6.0	1.0	NA	1	B3E0636	05/30/2013	05/30/13 13:07	
Surrogate: p-Terphenyl	62.4 %		33 - 147		B3E0636	05/30/2013	05/30/13 13:07	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,1-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,1-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,1-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,2-Dibromoethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,2-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,3-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
2,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
2-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID OG3-1-2

Lab ID: 1301538-07

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
4-Isopropyltoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Benzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Bromobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Bromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Bromodichloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Bromoform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Bromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Carbon disulfide	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Carbon tetrachloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Chlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Chloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Chloroform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Chloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Di-isopropyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Dibromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Dibromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Dichlorodifluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Ethyl Acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Ethyl Ether	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Ethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Freon-113	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Hexachlorobutadiene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Isopropylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
m,p-Xylene	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Methylene chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
MTBE	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
n-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
n-Propylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Naphthalene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
o-Xylene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
sec-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Styrene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
tert-Amyl methyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID OG3-1-2

Lab ID: 1301538-07

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	100	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
tert-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Tetrachloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Toluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Trichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Trichlorofluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Vinyl acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
Vinyl chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>119 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 17:24</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>91.6 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 17:24</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>121 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 17:24</i>	
<i>Surrogate: Toluene-d8</i>	<i>95.8 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 17:24</i>	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID OG4-1-2

Lab ID: 1301538-08

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3E0556	05/28/2013	05/28/13 15:23	
<i>Surrogate: 4-Bromofluorobenzene</i>	96.4 %		54 - 150		B3E0556	05/28/2013	05/28/13 15:23	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5.7	1.0	NA	1	B3E0636	05/30/2013	05/30/13 12:33	
ORO	4.6	1.0	NA	1	B3E0636	05/30/2013	05/30/13 12:33	
<i>Surrogate: p-Terphenyl</i>	76.9 %		33 - 147		B3E0636	05/30/2013	05/30/13 12:33	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,1-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,1-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,1-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,2-Dibromoethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,2-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,3-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
2,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
2-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID OG4-1-2

Lab ID: 1301538-08

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
4-Isopropyltoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Benzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Bromobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Bromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Bromodichloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Bromoform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Bromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Carbon disulfide	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Carbon tetrachloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Chlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Chloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Chloroform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Chloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Di-isopropyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Dibromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Dibromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Dichlorodifluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Ethyl Acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Ethyl Ether	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Ethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Freon-113	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Hexachlorobutadiene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Isopropylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
m,p-Xylene	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Methylene chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
MTBE	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
n-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
n-Propylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Naphthalene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
o-Xylene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
sec-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Styrene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
tert-Amyl methyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID OG4-1-2

Lab ID: 1301538-08

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	100	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
tert-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Tetrachloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Toluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Trichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Trichlorofluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Vinyl acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
Vinyl chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 17:43	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>126 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 17:43</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>92.5 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 17:43</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>126 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 17:43</i>	
<i>Surrogate: Toluene-d8</i>	<i>98.3 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 17:43</i>	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID OG2-GW

Lab ID: 1301538-09

Gasoline Range Organics by EPA 8015B

Analyst: SL

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	0.05	NA	1	B3E0597	05/29/2013	05/29/13 14:36	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>112 %</i>		<i>70 - 130</i>		B3E0597	05/29/2013	<i>05/29/13 14:36</i>	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	0.07	0.06	NA	1	B3E0573	05/28/2013	05/28/13 13:21	
ORO	ND	0.06	NA	1	B3E0573	05/28/2013	05/28/13 13:21	
<i>Surrogate: p-Terphenyl</i>	<i>94.9 %</i>		<i>38 - 151</i>		B3E0573	05/28/2013	<i>05/28/13 13:21</i>	

Volatile Organic Compounds by EPA 8260

Analyst: SL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,1,1-Trichloroethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,1,2-Trichloroethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,1-Dichloroethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,1-Dichloroethene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,1-Dichloropropene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,2,3-Trichloropropane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,2-Dibromoethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,2-Dichlorobenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,2-Dichloroethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,2-Dichloropropane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,3-Dichlorobenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,3-Dichloropropane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
1,4-Dichlorobenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
2,2-Dichloropropane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
2-Chloroethyl vinyl ether	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID OG2-GW

Lab ID: 1301538-09

Volatile Organic Compounds by EPA 8260

Analyst: SL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
4-Chlorotoluene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
4-Isopropyltoluene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Benzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Bromobenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Bromochloromethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Bromodichloromethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Bromoform	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Bromomethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Carbon disulfide	ND	1.0	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Carbon tetrachloride	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Chlorobenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Chloroethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Chloroform	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Chloromethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
cis-1,2-Dichloroethene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Di-isopropyl ether	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Dibromochloromethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Dibromomethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Dichlorodifluoromethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Ethyl Acetate	ND	10	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Ethyl Ether	ND	10	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Ethyl tert-butyl ether	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Ethylbenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Freon-113	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Hexachlorobutadiene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Isopropylbenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
m,p-Xylene	ND	1.0	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Methylene chloride	ND	1.0	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
MTBE	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
n-Butylbenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
n-Propylbenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Naphthalene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
o-Xylene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
sec-Butylbenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Styrene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID OG2-GW
Lab ID: 1301538-09

Volatile Organic Compounds by EPA 8260

Analyst: SL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Amyl methyl ether	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
tert-Butanol	ND	10	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
tert-Butylbenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Tetrachloroethene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Toluene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
trans-1,3-Dichloropropene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Trichloroethene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Trichlorofluoromethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Vinyl acetate	ND	10	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
Vinyl chloride	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 16:40	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>104 %</i>		<i>70 - 130</i>		B3E0570	05/24/2013	<i>05/28/13 16:40</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>75.5 %</i>		<i>70 - 130</i>		B3E0570	05/24/2013	<i>05/28/13 16:40</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>96.5 %</i>		<i>70 - 130</i>		B3E0570	05/24/2013	<i>05/28/13 16:40</i>	
<i>Surrogate: Toluene-d8</i>	<i>76.4 %</i>		<i>70 - 130</i>		B3E0570	05/24/2013	<i>05/28/13 16:40</i>	



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Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID CP1-0-1

Lab ID: 1301538-10

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3E0556	05/28/2013	05/28/13 15:41	
Surrogate: 4-Bromofluorobenzene	92.4 %		54 - 150		B3E0556	05/28/2013	05/28/13 15:41	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	9.8	1.0	NA	1	B3E0636	05/30/2013	05/30/13 15:54	
ORO	11	1.0	NA	1	B3E0636	05/30/2013	05/30/13 15:54	
Surrogate: p-Terphenyl	99.3 %		33 - 147		B3E0636	05/30/2013	05/30/13 15:54	

Polychlorinated Biphenyls by EPA 8082

Analyst: MR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:17	
Aroclor 1221	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:17	
Aroclor 1232	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:17	
Aroclor 1242	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:17	
Aroclor 1248	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:17	
Aroclor 1254	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:17	
Aroclor 1260	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:17	
Aroclor 1262	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:17	
Aroclor 1268	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:17	
Surrogate: Decachlorobiphenyl	111 %		39 - 128		B3E0642	05/30/2013	05/30/13 15:17	
Surrogate: Tetrachloro-m-xylene	106 %		38 - 122		B3E0642	05/30/2013	05/30/13 15:17	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,1-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	



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1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP1-0-1

Lab ID: 1301538-10

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,1-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,2-Dibromoethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,2-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,3-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
2,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
2-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
4-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
4-Isopropyltoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Benzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Bromobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Bromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Bromodichloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Bromoform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Bromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Carbon disulfide	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Carbon tetrachloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Chlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Chloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Chloroform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Chloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Di-isopropyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Dibromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Dibromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Dichlorodifluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP1-0-1

Lab ID: 1301538-10

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethyl Acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Ethyl Ether	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Ethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Freon-113	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Hexachlorobutadiene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Isopropylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
m,p-Xylene	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Methylene chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
MTBE	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
n-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
n-Propylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Naphthalene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
o-Xylene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
sec-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Styrene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
tert-Amyl methyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
tert-Butanol	ND	100	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
tert-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Tetrachloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Toluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Trichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Trichlorofluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Vinyl acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
Vinyl chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:01	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>131 %</i>	<i>70 - 130</i>			B3E0569	05/28/2013	<i>05/28/13 18:01</i>	<i>S1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>88.2 %</i>	<i>70 - 130</i>			B3E0569	05/28/2013	<i>05/28/13 18:01</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>126 %</i>	<i>70 - 130</i>			B3E0569	05/28/2013	<i>05/28/13 18:01</i>	
<i>Surrogate: Toluene-d8</i>	<i>97.7 %</i>	<i>70 - 130</i>			B3E0569	05/28/2013	<i>05/28/13 18:01</i>	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID CP1-0-1
Lab ID: 1301538-10

Semivolatile Organic Compounds by EPA 8270/SIM

Analyst: MFR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
Acenaphthene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
Acenaphthylene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
Anthracene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
Benzo(a)anthracene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
Benzo(a)pyrene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
Benzo(b)fluoranthene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
Benzo(g,h,i)perylene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
Benzo(k)fluoranthene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
Chrysene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
Dibenz(a,h)anthracene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
Fluoranthene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
Fluorene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
Indeno(1,2,3-cd)pyrene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
Naphthalene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
Phenanthrene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
Pyrene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 17:53	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	78.3 %		28 - 96		B3E0676	05/31/2013	05/31/13 17:53	
<i>Surrogate: 2-Fluorobiphenyl</i>	85.3 %		36 - 113		B3E0676	05/31/2013	05/31/13 17:53	
<i>Surrogate: Nitrobenzene-d5</i>	98.3 %		29 - 106		B3E0676	05/31/2013	05/31/13 17:53	
<i>Surrogate: 4-Terphenyl-d14</i>	93.8 %		39 - 138		B3E0676	05/31/2013	05/31/13 17:53	



Certificate of Analysis

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1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID CP2-0-1

Lab ID: 1301538-11

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3E0556	05/28/2013	05/28/13 16:00	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>103 %</i>		<i>54 - 150</i>		B3E0556	05/28/2013	<i>05/28/13 16:00</i>	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	6.4	1.0	NA	1	B3E0636	05/30/2013	05/30/13 14:14	
ORO	5.4	1.0	NA	1	B3E0636	05/30/2013	05/30/13 14:14	
<i>Surrogate: p-Terphenyl</i>	<i>94.3 %</i>		<i>33 - 147</i>		B3E0636	05/30/2013	<i>05/30/13 14:14</i>	

Polychlorinated Biphenyls by EPA 8082

Analyst: MR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:44	
Aroclor 1221	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:44	
Aroclor 1232	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:44	
Aroclor 1242	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:44	
Aroclor 1248	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:44	
Aroclor 1254	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:44	
Aroclor 1260	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:44	
Aroclor 1262	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:44	
Aroclor 1268	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 15:44	
<i>Surrogate: Decachlorobiphenyl</i>	<i>111 %</i>		<i>39 - 128</i>		B3E0642	05/30/2013	<i>05/30/13 15:44</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>108 %</i>		<i>38 - 122</i>		B3E0642	05/30/2013	<i>05/30/13 15:44</i>	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,1-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	



Certificate of Analysis

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1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP2-0-1

Lab ID: 1301538-11

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,1-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,2-Dibromoethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,2-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,3-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
2,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
2-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
4-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
4-Isopropyltoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Benzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Bromobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Bromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Bromodichloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Bromoform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Bromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Carbon disulfide	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Carbon tetrachloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Chlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Chloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Chloroform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Chloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Di-isopropyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Dibromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Dibromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Dichlorodifluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP2-0-1

Lab ID: 1301538-11

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethyl Acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Ethyl Ether	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Ethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Freon-113	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Hexachlorobutadiene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Isopropylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
m,p-Xylene	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Methylene chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
MTBE	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
n-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
n-Propylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Naphthalene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
o-Xylene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
sec-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Styrene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
tert-Amyl methyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
tert-Butanol	ND	100	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
tert-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Tetrachloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Toluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Trichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Trichlorofluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Vinyl acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
Vinyl chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>136 %</i>	<i>70 - 130</i>			B3E0569	05/28/2013	<i>05/28/13 18:20</i>	<i>S1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>90.0 %</i>	<i>70 - 130</i>			B3E0569	05/28/2013	<i>05/28/13 18:20</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>126 %</i>	<i>70 - 130</i>			B3E0569	05/28/2013	<i>05/28/13 18:20</i>	
<i>Surrogate: Toluene-d8</i>	<i>99.7 %</i>	<i>70 - 130</i>			B3E0569	05/28/2013	<i>05/28/13 18:20</i>	



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Client Sample ID CP2-0-1
Lab ID: 1301538-11

Semivolatle Organic Compounds by EPA 8270/SIM

Analyst: MFR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
Acenaphthene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
Acenaphthylene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
Anthracene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
Benzo(a)anthracene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
Benzo(a)pyrene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
Benzo(b)fluoranthene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
Benzo(g,h,i)perylene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
Benzo(k)fluoranthene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
Chrysene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
Dibenz(a,h)anthracene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
Fluoranthene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
Fluorene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
Indeno(1,2,3-cd)pyrene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
Naphthalene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
Phenanthrene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
Pyrene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:20	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>84.5 %</i>		<i>28 - 96</i>		B3E0676	05/31/2013	<i>05/31/13 18:20</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>95.9 %</i>		<i>36 - 113</i>		B3E0676	05/31/2013	<i>05/31/13 18:20</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>108 %</i>		<i>29 - 106</i>		B3E0676	05/31/2013	<i>05/31/13 18:20</i>	S2
<i>Surrogate: 4-Terphenyl-d14</i>	<i>104 %</i>		<i>39 - 138</i>		B3E0676	05/31/2013	<i>05/31/13 18:20</i>	



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 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Client Sample ID CP3-0-1

Lab ID: 1301538-12

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3E0556	05/28/2013	05/28/13 16:18	
<i>Surrogate: 4-Bromofluorobenzene</i>	96.2 %		54 - 150		B3E0556	05/28/2013	05/28/13 16:18	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	840	25	NA	25	B3E0636	05/30/2013	05/31/13 08:50	
ORO	1500	25	NA	25	B3E0636	05/30/2013	05/31/13 08:50	
<i>Surrogate: p-Terphenyl</i>	0%		33 - 147		B3E0636	05/30/2013	05/31/13 08:50	S4

Polychlorinated Biphenyls by EPA 8082

Analyst: MR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:12	
Aroclor 1221	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:12	
Aroclor 1232	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:12	
Aroclor 1242	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:12	
Aroclor 1248	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:12	
Aroclor 1254	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:12	
Aroclor 1260	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:12	
Aroclor 1262	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:12	
Aroclor 1268	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:12	
<i>Surrogate: Decachlorobiphenyl</i>	47.8 %		39 - 128		B3E0642	05/30/2013	05/30/13 16:12	
<i>Surrogate: Tetrachloro-m-xylene</i>	85.3 %		38 - 122		B3E0642	05/30/2013	05/30/13 16:12	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,1-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	



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Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP3-0-1

Lab ID: 1301538-12

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,1-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,2-Dibromoethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,2-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,3-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
2,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
2-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
4-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
4-Isopropyltoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Benzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Bromobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Bromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Bromodichloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Bromoform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Bromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Carbon disulfide	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Carbon tetrachloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Chlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Chloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Chloroform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Chloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Di-isopropyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Dibromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Dibromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Dichlorodifluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP3-0-1

Lab ID: 1301538-12

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethyl Acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Ethyl Ether	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Ethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Freon-113	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Hexachlorobutadiene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Isopropylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
m,p-Xylene	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Methylene chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
MTBE	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
n-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
n-Propylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Naphthalene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
o-Xylene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
sec-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Styrene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
tert-Amyl methyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
tert-Butanol	ND	100	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
tert-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Tetrachloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Toluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Trichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Trichlorofluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Vinyl acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
Vinyl chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:39	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>128 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 18:39</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>88.5 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 18:39</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>127 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 18:39</i>	
<i>Surrogate: Toluene-d8</i>	<i>96.2 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 18:39</i>	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID CP3-0-1

Lab ID: 1301538-12

Semivolatile Organic Compounds by EPA 8270/SIM

Analyst: MFR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
Acenaphthene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
Acenaphthylene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
Anthracene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
Benzo(a)anthracene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
Benzo(a)pyrene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
Benzo(b)fluoranthene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
Benzo(g,h,i)perylene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
Benzo(k)fluoranthene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
Chrysene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
Dibenz(a,h)anthracene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
Fluoranthene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
Fluorene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
Indeno(1,2,3-cd)pyrene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
Naphthalene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
Phenanthrene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
Pyrene	ND	25	NA	5	B3E0676	05/31/2013	05/31/13 19:12	D2
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>52.3 %</i>		<i>28 - 96</i>		B3E0676	05/31/2013	<i>05/31/13 19:12</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>64.6 %</i>		<i>36 - 113</i>		B3E0676	05/31/2013	<i>05/31/13 19:12</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>72.3 %</i>		<i>29 - 106</i>		B3E0676	05/31/2013	<i>05/31/13 19:12</i>	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>61.1 %</i>		<i>39 - 138</i>		B3E0676	05/31/2013	<i>05/31/13 19:12</i>	



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Client Sample ID CP4-0-1

Lab ID: 1301538-13

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3E0556	05/28/2013	05/28/13 16:37	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>91.4 %</i>		<i>54 - 150</i>		B3E0556	05/28/2013	<i>05/28/13 16:37</i>	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	7.9	1.0	NA	1	B3E0636	05/30/2013	05/30/13 15:04	
ORO	9.0	1.0	NA	1	B3E0636	05/30/2013	05/30/13 15:04	
<i>Surrogate: p-Terphenyl</i>	<i>103 %</i>		<i>33 - 147</i>		B3E0636	05/30/2013	<i>05/30/13 15:04</i>	

Polychlorinated Biphenyls by EPA 8082

Analyst: MR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:39	
Aroclor 1221	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:39	
Aroclor 1232	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:39	
Aroclor 1242	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:39	
Aroclor 1248	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:39	
Aroclor 1254	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:39	
Aroclor 1260	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:39	
Aroclor 1262	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:39	
Aroclor 1268	ND	16	NA	1	B3E0642	05/30/2013	05/30/13 16:39	
<i>Surrogate: Decachlorobiphenyl</i>	<i>105 %</i>		<i>39 - 128</i>		B3E0642	05/30/2013	<i>05/30/13 16:39</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>95.0 %</i>		<i>38 - 122</i>		B3E0642	05/30/2013	<i>05/30/13 16:39</i>	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,1-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP4-0-1

Lab ID: 1301538-13

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,1-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,2-Dibromoethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,2-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,3-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
2,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
2-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
4-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
4-Isopropyltoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Benzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Bromobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Bromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Bromodichloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Bromoform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Bromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Carbon disulfide	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Carbon tetrachloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Chlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Chloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Chloroform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Chloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Di-isopropyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Dibromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Dibromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Dichlorodifluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP4-0-1

Lab ID: 1301538-13

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethyl Acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Ethyl Ether	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Ethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Freon-113	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Hexachlorobutadiene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Isopropylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
m,p-Xylene	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Methylene chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
MTBE	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
n-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
n-Propylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Naphthalene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
o-Xylene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
sec-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Styrene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
tert-Amyl methyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
tert-Butanol	ND	100	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
tert-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Tetrachloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Toluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Trichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Trichlorofluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Vinyl acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
Vinyl chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 18:57	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>127 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 18:57</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>90.1 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 18:57</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>126 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 18:57</i>	
<i>Surrogate: Toluene-d8</i>	<i>96.8 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 18:57</i>	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID CP4-0-1
Lab ID: 1301538-13

Semivolatile Organic Compounds by EPA 8270/SIM

Analyst: MFR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
Acenaphthene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
Acenaphthylene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
Anthracene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
Benzo(a)anthracene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
Benzo(a)pyrene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
Benzo(b)fluoranthene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
Benzo(g,h,i)perylene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
Benzo(k)fluoranthene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
Chrysene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
Dibenz(a,h)anthracene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
Fluoranthene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
Fluorene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
Indeno(1,2,3-cd)pyrene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
Naphthalene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
Phenanthrene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
Pyrene	ND	5.0	NA	1	B3E0676	05/31/2013	05/31/13 18:46	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>79.9 %</i>		<i>28 - 96</i>		B3E0676	05/31/2013	<i>05/31/13 18:46</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>94.7 %</i>		<i>36 - 113</i>		B3E0676	05/31/2013	<i>05/31/13 18:46</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>102 %</i>		<i>29 - 106</i>		B3E0676	05/31/2013	<i>05/31/13 18:46</i>	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>97.0 %</i>		<i>39 - 138</i>		B3E0676	05/31/2013	<i>05/31/13 18:46</i>	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP1-1-2

Lab ID: 1301538-14

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3E0556	05/28/2013	05/28/13 16:55	
<i>Surrogate: 4-Bromofluorobenzene</i>	97.2 %		54 - 150		B3E0556	05/28/2013	05/28/13 16:55	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	8.3	1.0	NA	1	B3E0636	05/30/2013	05/30/13 15:38	
ORO	8.7	1.0	NA	1	B3E0636	05/30/2013	05/30/13 15:38	
<i>Surrogate: p-Terphenyl</i>	94.5 %		33 - 147		B3E0636	05/30/2013	05/30/13 15:38	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,1-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,1-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,1-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,2-Dibromoethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,2-Dichloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,3-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
2,2-Dichloropropane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
2-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP1-1-2

Lab ID: 1301538-14

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
4-Isopropyltoluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Benzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Bromobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Bromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Bromodichloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Bromoform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Bromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Carbon disulfide	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Carbon tetrachloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Chlorobenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Chloroethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Chloroform	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Chloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Di-isopropyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Dibromochloromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Dibromomethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Dichlorodifluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Ethyl Acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Ethyl Ether	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Ethylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Freon-113	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Hexachlorobutadiene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Isopropylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
m,p-Xylene	ND	10	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Methylene chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
MTBE	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
n-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
n-Propylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Naphthalene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
o-Xylene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
sec-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Styrene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
tert-Amyl methyl ether	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID CP1-1-2

Lab ID: 1301538-14

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	100	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
tert-Butylbenzene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Tetrachloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Toluene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Trichloroethene	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Trichlorofluoromethane	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Vinyl acetate	ND	50	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
Vinyl chloride	ND	5.0	NA	1	B3E0569	05/28/2013	05/28/13 19:16	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>134 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 19:16</i>	<i>S1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>89.5 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 19:16</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>133 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 19:16</i>	<i>S1</i>
<i>Surrogate: Toluene-d8</i>	<i>97.3 %</i>		<i>70 - 130</i>		B3E0569	05/28/2013	<i>05/28/13 19:16</i>	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP2-1-2

Lab ID: 1301538-15

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3E0556	05/28/2013	05/28/13 17:14	
Surrogate: 4-Bromofluorobenzene	97.1 %		54 - 150		B3E0556	05/28/2013	05/28/13 17:14	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5.6	1.0	NA	1	B3E0636	05/30/2013	05/30/13 14:31	
ORO	4.4	1.0	NA	1	B3E0636	05/30/2013	05/30/13 14:31	
Surrogate: p-Terphenyl	88.5 %		33 - 147		B3E0636	05/30/2013	05/30/13 14:31	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,1-Dichloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,1-Dichloroethene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,1-Dichloropropene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,2-Dibromoethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,2-Dichloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,2-Dichloropropane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,3-Dichloropropane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
2,2-Dichloropropane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
2-Chlorotoluene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP2-1-2

Lab ID: 1301538-15

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
4-Isopropyltoluene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Benzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Bromobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Bromochloromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Bromodichloromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Bromoform	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Bromomethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Carbon disulfide	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Carbon tetrachloride	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Chlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Chloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Chloroform	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Chloromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Di-isopropyl ether	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Dibromochloromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Dibromomethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Dichlorodifluoromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Ethyl Acetate	ND	50	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Ethyl Ether	ND	50	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Ethylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Freon-113	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Hexachlorobutadiene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Isopropylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
m,p-Xylene	ND	10	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Methylene chloride	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
MTBE	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
n-Butylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
n-Propylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Naphthalene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
o-Xylene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
sec-Butylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Styrene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
tert-Amyl methyl ether	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID CP2-1-2

Lab ID: 1301538-15

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	100	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
tert-Butylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Tetrachloroethene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Toluene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Trichloroethene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Trichlorofluoromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Vinyl acetate	ND	50	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
Vinyl chloride	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>131 %</i>		<i>70 - 130</i>		B3E0592	05/29/2013	<i>05/29/13 11:22</i>	<i>S1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94.0 %</i>		<i>70 - 130</i>		B3E0592	05/29/2013	<i>05/29/13 11:22</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>128 %</i>		<i>70 - 130</i>		B3E0592	05/29/2013	<i>05/29/13 11:22</i>	
<i>Surrogate: Toluene-d8</i>	<i>96.4 %</i>		<i>70 - 130</i>		B3E0592	05/29/2013	<i>05/29/13 11:22</i>	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP3-1-2

Lab ID: 1301538-16

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3E0556	05/28/2013	05/28/13 17:32	
Surrogate: 4-Bromofluorobenzene	99.3 %		54 - 150		B3E0556	05/28/2013	05/28/13 17:32	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	170	10	NA	10	B3E0636	05/30/2013	05/31/13 08:33	
ORO	290	10	NA	10	B3E0636	05/30/2013	05/31/13 08:33	
Surrogate: p-Terphenyl	0%		33 - 147		B3E0636	05/30/2013	05/31/13 08:33	S4

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,1-Dichloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,1-Dichloroethene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,1-Dichloropropene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,2-Dibromoethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,2-Dichloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,2-Dichloropropane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,3-Dichloropropane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
2,2-Dichloropropane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
2-Chlorotoluene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP3-1-2

Lab ID: 1301538-16

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
4-Isopropyltoluene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Benzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Bromobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Bromochloromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Bromodichloromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Bromoform	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Bromomethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Carbon disulfide	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Carbon tetrachloride	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Chlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Chloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Chloroform	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Chloromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Di-isopropyl ether	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Dibromochloromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Dibromomethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Dichlorodifluoromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Ethyl Acetate	ND	50	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Ethyl Ether	ND	50	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Ethylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Freon-113	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Hexachlorobutadiene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Isopropylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
m,p-Xylene	ND	10	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Methylene chloride	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
MTBE	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
n-Butylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
n-Propylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Naphthalene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
o-Xylene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
sec-Butylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Styrene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
tert-Amyl methyl ether	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP3-1-2

Lab ID: 1301538-16

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	100	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
tert-Butylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Tetrachloroethene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Toluene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Trichloroethene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Trichlorofluoromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Vinyl acetate	ND	50	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
Vinyl chloride	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:41	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>131 %</i>		<i>70 - 130</i>		B3E0592	05/29/2013	<i>05/29/13 11:41</i>	<i>S1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>92.5 %</i>		<i>70 - 130</i>		B3E0592	05/29/2013	<i>05/29/13 11:41</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>127 %</i>		<i>70 - 130</i>		B3E0592	05/29/2013	<i>05/29/13 11:41</i>	
<i>Surrogate: Toluene-d8</i>	<i>97.8 %</i>		<i>70 - 130</i>		B3E0592	05/29/2013	<i>05/29/13 11:41</i>	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID CP4-1-2

Lab ID: 1301538-17

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3E0556	05/28/2013	05/28/13 17:51	
Surrogate: 4-Bromofluorobenzene	90.5 %		54 - 150		B3E0556	05/28/2013	05/28/13 17:51	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	8.4	1.0	NA	1	B3E0636	05/30/2013	05/30/13 14:48	
ORO	8.8	1.0	NA	1	B3E0636	05/30/2013	05/30/13 14:48	
Surrogate: p-Terphenyl	77.1 %		33 - 147		B3E0636	05/30/2013	05/30/13 14:48	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,1-Dichloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,1-Dichloroethene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,1-Dichloropropene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,2-Dibromoethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,2-Dichloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,2-Dichloropropane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,3-Dichloropropane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
2,2-Dichloropropane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
2-Chlorotoluene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP4-1-2

Lab ID: 1301538-17

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
4-Isopropyltoluene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Benzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Bromobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Bromochloromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Bromodichloromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Bromoform	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Bromomethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Carbon disulfide	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Carbon tetrachloride	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Chlorobenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Chloroethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Chloroform	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Chloromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Di-isopropyl ether	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Dibromochloromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Dibromomethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Dichlorodifluoromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Ethyl Acetate	ND	50	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Ethyl Ether	ND	50	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Ethylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Freon-113	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Hexachlorobutadiene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Isopropylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
m,p-Xylene	ND	10	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Methylene chloride	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
MTBE	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
n-Butylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
n-Propylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Naphthalene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
o-Xylene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
sec-Butylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Styrene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
tert-Amyl methyl ether	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP4-1-2

Lab ID: 1301538-17

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	100	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
tert-Butylbenzene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Tetrachloroethene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Toluene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Trichloroethene	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Trichlorofluoromethane	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Vinyl acetate	ND	50	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
Vinyl chloride	ND	5.0	NA	1	B3E0592	05/29/2013	05/29/13 11:59	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>129 %</i>		<i>70 - 130</i>		B3E0592	05/29/2013	<i>05/29/13 11:59</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>88.1 %</i>		<i>70 - 130</i>		B3E0592	05/29/2013	<i>05/29/13 11:59</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>130 %</i>		<i>70 - 130</i>		B3E0592	05/29/2013	<i>05/29/13 11:59</i>	S1
<i>Surrogate: Toluene-d8</i>	<i>98.8 %</i>		<i>70 - 130</i>		B3E0592	05/29/2013	<i>05/29/13 11:59</i>	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID CP2-GW

Lab ID: 1301538-18

Gasoline Range Organics by EPA 8015B

Analyst: SL

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	0.05	NA	1	B3E0597	05/29/2013	05/29/13 14:55	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>111 %</i>		<i>70 - 130</i>		B3E0597	05/29/2013	<i>05/29/13 14:55</i>	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	0.09	0.06	NA	1	B3E0573	05/28/2013	05/28/13 13:38	
ORO	ND	0.06	NA	1	B3E0573	05/28/2013	05/28/13 13:38	
<i>Surrogate: p-Terphenyl</i>	<i>113 %</i>		<i>38 - 151</i>		B3E0573	05/28/2013	<i>05/28/13 13:38</i>	

Volatile Organic Compounds by EPA 8260

Analyst: SL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,1,1-Trichloroethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,1,2-Trichloroethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,1-Dichloroethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,1-Dichloroethene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,1-Dichloropropene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,2,3-Trichloropropane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,2-Dibromoethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,2-Dichlorobenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,2-Dichloroethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,2-Dichloropropane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,3-Dichlorobenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,3-Dichloropropane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
1,4-Dichlorobenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
2,2-Dichloropropane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
2-Chloroethyl vinyl ether	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID CP2-GW

Lab ID: 1301538-18

Volatile Organic Compounds by EPA 8260

Analyst: SL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
4-Chlorotoluene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
4-Isopropyltoluene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Benzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Bromobenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Bromochloromethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Bromodichloromethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Bromoform	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Bromomethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Carbon disulfide	ND	1.0	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Carbon tetrachloride	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Chlorobenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Chloroethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Chloroform	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Chloromethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
cis-1,2-Dichloroethene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Di-isopropyl ether	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Dibromochloromethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Dibromomethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Dichlorodifluoromethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Ethyl Acetate	ND	10	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Ethyl Ether	ND	10	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Ethyl tert-butyl ether	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Ethylbenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Freon-113	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Hexachlorobutadiene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Isopropylbenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
m,p-Xylene	ND	1.0	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Methylene chloride	ND	1.0	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
MTBE	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
n-Butylbenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
n-Propylbenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Naphthalene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
o-Xylene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
sec-Butylbenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Styrene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	



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1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID CP2-GW

Lab ID: 1301538-18

Volatile Organic Compounds by EPA 8260

Analyst: SL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Amyl methyl ether	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
tert-Butanol	ND	10	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
tert-Butylbenzene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Tetrachloroethene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Toluene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
trans-1,3-Dichloropropene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Trichloroethene	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Trichlorofluoromethane	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Vinyl acetate	ND	10	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
Vinyl chloride	ND	0.50	NA	1	B3E0570	05/24/2013	05/28/13 17:04	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>99.1 %</i>		<i>70 - 130</i>		B3E0570	05/24/2013	<i>05/28/13 17:04</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>76.4 %</i>		<i>70 - 130</i>		B3E0570	05/24/2013	<i>05/28/13 17:04</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>94.2 %</i>		<i>70 - 130</i>		B3E0570	05/24/2013	<i>05/28/13 17:04</i>	
<i>Surrogate: Toluene-d8</i>	<i>73.8 %</i>		<i>70 - 130</i>		B3E0570	05/24/2013	<i>05/28/13 17:04</i>	



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Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID G1-0-1

Lab ID: 1301538-19

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	21	1.0	NA	1	B3E0641	05/30/2013	05/31/13 09:45	



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Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID G2-0-1

Lab ID: 1301538-20

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.4	1.0	NA	1	B3E0641	05/30/2013	05/31/13 09:50	



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Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID G3-0-1

Lab ID: 1301538-21

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	14	1.0	NA	1	B3E0641	05/30/2013	05/31/13 09:51	



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Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID G4-0-1

Lab ID: 1301538-22

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	44	1.0	NA	1	B3E0641	05/30/2013	05/31/13 09:53	



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Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID G5-0-1

Lab ID: 1301538-23

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	27	1.0	NA	1	B3E0641	05/30/2013	05/31/13 09:55	



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Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID G6-0-1

Lab ID: 1301538-24

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	15	1.0	NA	1	B3E0641	05/30/2013	05/31/13 09:56	



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Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID G7-0-1

Lab ID: 1301538-25

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	37	1.0	NA	1	B3E0641	05/30/2013	05/31/13 09:58	



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Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID G8-0-1

Lab ID: 1301538-26

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	17	1.0	NA	1	B3E0641	05/30/2013	05/31/13 10:00	



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Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID G9-0-1

Lab ID: 1301538-27

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	4.7	1.0	NA	1	B3E0641	05/30/2013	05/31/13 10:06	



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Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID L11-0-1

Lab ID: 1301538-28

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	7.3	1.0	NA	1	B3E0641	05/30/2013	05/31/13 10:07	



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Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID L1-0-1

Lab ID: 1301538-39

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	78	1.0	NA	1	B3E0641	05/30/2013	05/31/13 10:09	



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Project Number : Kent Ave, 402090002
Report To : Peter Sims
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Client Sample ID L2-0-1

Lab ID: 1301538-40

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	37	1.0	NA	1	B3E0641	05/30/2013	05/31/13 10:11	



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Report To : Peter Sims
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Client Sample ID L3-0-1

Lab ID: 1301538-41

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	9.7	1.0	NA	1	B3E0641	05/30/2013	05/31/13 10:12	



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Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID L4-0-1

Lab ID: 1301538-42

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	70	1.0	NA	1	B3E0641	05/30/2013	05/31/13 10:14	



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Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID L5-0-1

Lab ID: 1301538-43

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	16	1.0	NA	1	B3E0641	05/30/2013	05/31/13 10:16	



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Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID L6-0-1

Lab ID: 1301538-44

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	47	1.0	NA	1	B3E0641	05/30/2013	05/31/13 10:18	



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Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID L7-0-1

Lab ID: 1301538-45

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	26	1.0	NA	1	B3E0641	05/30/2013	05/31/13 10:20	



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Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID L8-0-1

Lab ID: 1301538-46

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	70	1.0	NA	1	B3E0641	05/30/2013	05/31/13 10:22	



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Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID L9-0-1

Lab ID: 1301538-47

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	51	1.0	NA	1	B3E0641	05/30/2013	05/31/13 10:27	



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Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID L10-0-1

Lab ID: 1301538-48

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	420	1.0	NA	1	B3E0641	05/30/2013	05/31/13 10:29	



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Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 06/04/2013

Client Sample ID Composite 2 Lab ID: 1301538-59

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B3E0643	05/30/2013	05/31/13 10:35	
Arsenic	4.1	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:35	
Barium	120	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:35	
Beryllium	ND	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:35	
Cadmium	ND	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:35	
Chromium	32	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:35	
Cobalt	8.5	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:35	
Copper	17	2.0	NA	1	B3E0643	05/30/2013	05/31/13 10:35	
Lead	8.2	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:35	
Molybdenum	ND	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:35	
Nickel	38	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:35	
Selenium	ND	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:35	
Silver	ND	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:35	
Thallium	ND	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:35	
Vanadium	25	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:35	
Zinc	40	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:35	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B3E0672	05/31/2013	05/31/13 12:34	



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Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Client Sample ID Composite 1
Lab ID: 1301538-60

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B3E0643	05/30/2013	05/31/13 10:39	
Arsenic	3.4	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:39	
Barium	130	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:39	
Beryllium	ND	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:39	
Cadmium	ND	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:39	
Chromium	27	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:39	
Cobalt	7.9	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:39	
Copper	17	2.0	NA	1	B3E0643	05/30/2013	05/31/13 10:39	
Lead	59	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:39	
Molybdenum	ND	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:39	
Nickel	33	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:39	
Selenium	ND	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:39	
Silver	ND	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:39	
Thallium	ND	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:39	
Vanadium	21	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:39	
Zinc	44	1.0	NA	1	B3E0643	05/30/2013	05/31/13 10:39	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B3E0672	05/31/2013	05/31/13 12:36	



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Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Client Sample ID Composite A Lab ID: 1301538-61

Organochlorine Pesticides by EPA 8081

Analyst: BB

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
4,4'-DDE	ND	2.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
4,4'-DDT	9.2	2.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
Aldrin	ND	1.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
alpha-BHC	ND	1.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
alpha-Chlordane	7.2	1.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
beta-BHC	ND	1.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
Chlordane	67	8.5	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
delta-BHC	ND	1.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
Dieldrin	ND	2.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
Endosulfan I	ND	1.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
Endosulfan II	ND	2.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
Endosulfan sulfate	ND	2.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
Endrin	ND	2.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
Endrin aldehyde	ND	2.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
Endrin ketone	ND	2.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
gamma-BHC	ND	1.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
gamma-Chlordane	9.2	1.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
Heptachlor	ND	1.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
Heptachlor epoxide	ND	1.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
Methoxychlor	ND	5.0	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
Toxaphene	ND	50	NA	1	B3E0644	05/30/2013	06/03/13 15:33	
<i>Surrogate: Decachlorobiphenyl</i>	<i>78.0 %</i>		<i>32 - 113</i>		B3E0644	05/30/2013	<i>06/03/13 15:33</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>82.1 %</i>		<i>32 - 101</i>		B3E0644	05/30/2013	<i>06/03/13 15:33</i>	



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Client Sample ID Composite B Lab ID: 1301538-62

Organochlorine Pesticides by EPA 8081

Analyst: BB

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
4,4'-DDE	12	2.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
4,4'-DDT [2C]	10	2.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
Aldrin	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
alpha-BHC	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
alpha-Chlordane	1.5	1.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
beta-BHC	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
Chlordane [2C]	19	8.5	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
delta-BHC	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
Dieldrin [2C]	ND	2.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
Endosulfan I	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
Endosulfan II	ND	2.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
Endosulfan sulfate	ND	2.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
Endrin	ND	2.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
Endrin aldehyde	ND	2.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
Endrin ketone	ND	2.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
gamma-BHC	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
gamma-Chlordane	1.2	1.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
Heptachlor	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
Heptachlor epoxide	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
Methoxychlor	ND	5.0	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
Toxaphene	ND	50	NA	1	B3E0644	05/30/2013	06/01/13 02:15	
<i>Surrogate: Decachlorobiphenyl</i>	<i>82.1 %</i>		<i>32 - 113</i>		B3E0644	05/30/2013	<i>06/01/13 02:15</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>82.8 %</i>		<i>32 - 101</i>		B3E0644	05/30/2013	<i>06/01/13 02:15</i>	



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Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Client Sample ID Composite C

Lab ID: 1301538-63

Organochlorine Pesticides by EPA 8081

Analyst: BB

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
4,4'-DDE	ND	2.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
4,4'-DDT	ND	2.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
Aldrin	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
alpha-BHC	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
alpha-Chlordane	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
beta-BHC	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
Chlordane	ND	8.5	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
delta-BHC	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
Dieldrin	ND	2.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
Endosulfan I	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
Endosulfan II	ND	2.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
Endosulfan sulfate	ND	2.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
Endrin	ND	2.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
Endrin aldehyde	ND	2.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
Endrin ketone	ND	2.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
gamma-BHC	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
gamma-Chlordane	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
Heptachlor	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
Heptachlor epoxide	ND	1.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
Methoxychlor	ND	5.0	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
Toxaphene	ND	50	NA	1	B3E0644	05/30/2013	06/01/13 03:07	
<i>Surrogate: Decachlorobiphenyl</i>	<i>82.7 %</i>		<i>32 - 113</i>		B3E0644	05/30/2013	<i>06/01/13 03:07</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>88.6 %</i>		<i>32 - 101</i>		B3E0644	05/30/2013	<i>06/01/13 03:07</i>	



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Project Number : Kent Ave, 402090002
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QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B3E0641 - EPA 3050B									
Blank (B3E0641-BLK1)				Prepared: 5/30/2013 Analyzed: 5/31/2013					
Lead	ND	1.0			NR				
LCS (B3E0641-BS1)				Prepared: 5/30/2013 Analyzed: 5/31/2013					
Lead	46.9584	1.0	50.0000		93.9	80 - 120			
Matrix Spike (B3E0641-MS1)		Source: 1301538-19		Prepared: 5/30/2013 Analyzed: 5/31/2013					
Lead	128.894	1.0	125.000	20.5274	86.7	51 - 106			
Matrix Spike Dup (B3E0641-MSD1)		Source: 1301538-19		Prepared: 5/30/2013 Analyzed: 5/31/2013					
Lead	133.480	1.0	125.000	20.5274	90.4	51 - 106	3.50	20	



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Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0643 - EPA 3050B

Blank (B3E0643-BLK1)

Prepared: 5/30/2013 Analyzed: 5/31/2013

Antimony	ND	2.0			NR
Arsenic	ND	1.0			NR
Barium	ND	1.0			NR
Beryllium	ND	1.0			NR
Cadmium	ND	1.0			NR
Chromium	ND	1.0			NR
Cobalt	ND	1.0			NR
Copper	ND	2.0			NR
Lead	ND	1.0			NR
Molybdenum	ND	1.0			NR
Nickel	ND	1.0			NR
Selenium	ND	1.0			NR
Silver	ND	1.0			NR
Thallium	ND	1.0			NR
Vanadium	ND	1.0			NR
Zinc	ND	1.0			NR

LCS (B3E0643-BS1)

Prepared: 5/30/2013 Analyzed: 5/31/2013

Antimony	45.1949	2.0	50.0000		90.4	80 - 120
Arsenic	44.9432	1.0	50.0000		89.9	80 - 120
Barium	47.0320	1.0	50.0000		94.1	80 - 120
Beryllium	49.2942	1.0	50.0000		98.6	80 - 120
Cadmium	46.4748	1.0	50.0000		92.9	80 - 120
Chromium	49.4022	1.0	50.0000		98.8	80 - 120
Cobalt	48.1056	1.0	50.0000		96.2	80 - 120
Copper	48.8598	2.0	50.0000		97.7	80 - 120
Lead	47.2091	1.0	50.0000		94.4	80 - 120
Molybdenum	49.0830	1.0	50.0000		98.2	80 - 120
Nickel	47.5870	1.0	50.0000		95.2	80 - 120
Selenium	42.1013	1.0	50.0000		84.2	80 - 120
Silver	45.2992	1.0	50.0000		90.6	80 - 120
Thallium	48.2279	1.0	50.0000		96.5	80 - 120
Vanadium	48.0452	1.0	50.0000		96.1	80 - 120
Zinc	48.9534	1.0	50.0000		97.9	80 - 120

Matrix Spike (B3E0643-MS1)

Source: 1301538-59

Prepared: 5/30/2013 Analyzed: 5/31/2013

Antimony	77.5196	2.0	125.000	0.384119	61.7	21 - 109
Arsenic	99.5147	1.0	125.000	4.12452	76.3	55 - 102
Barium	218.639	1.0	125.000	115.549	82.5	40 - 130
Beryllium	100.875	1.0	125.000	ND	80.7	60 - 104
Cadmium	93.2994	1.0	125.000	0.589836	74.2	52 - 100
Chromium	135.036	1.0	125.000	31.6176	82.7	53 - 113



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Reported : 06/04/2013

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0643 - EPA 3050B (continued)

Matrix Spike (B3E0643-MS1) - Continued

Source: 1301538-59

Prepared: 5/30/2013 Analyzed: 5/31/2013

Cobalt	105.977	1.0	125.000	8.50892	78.0	53 - 104			
Copper	125.494	2.0	125.000	17.4005	86.5	51 - 122			
Lead	101.850	1.0	125.000	8.15166	75.0	51 - 106			
Molybdenum	96.4852	1.0	125.000	ND	77.2	55 - 103			
Nickel	135.318	1.0	125.000	37.7035	78.1	48 - 112			
Selenium	93.3802	1.0	125.000	0.449018	74.3	53 - 104			
Silver	100.520	1.0	125.000	ND	80.4	61 - 109			
Thallium	92.5768	1.0	125.000	ND	74.1	44 - 103			
Vanadium	125.562	1.0	125.000	24.6417	80.7	55 - 115			
Zinc	131.519	1.0	125.000	40.1647	73.1	24 - 130			

Matrix Spike Dup (B3E0643-MSD1)

Source: 1301538-59

Prepared: 5/30/2013 Analyzed: 5/31/2013

Antimony	74.3558	2.0	125.000	0.384119	59.2	21 - 109	4.17	20
Arsenic	97.2984	1.0	125.000	4.12452	74.5	55 - 102	2.25	20
Barium	216.877	1.0	125.000	115.549	81.1	40 - 130	0.809	20
Beryllium	98.8327	1.0	125.000	ND	79.1	60 - 104	2.05	20
Cadmium	92.2287	1.0	125.000	0.589836	73.3	52 - 100	1.15	20
Chromium	134.291	1.0	125.000	31.6176	82.1	53 - 113	0.553	20
Cobalt	104.292	1.0	125.000	8.50892	76.6	53 - 104	1.60	20
Copper	123.832	2.0	125.000	17.4005	85.1	51 - 122	1.33	20
Lead	101.151	1.0	125.000	8.15166	74.4	51 - 106	0.689	20
Molybdenum	94.1142	1.0	125.000	ND	75.3	55 - 103	2.49	20
Nickel	134.792	1.0	125.000	37.7035	77.7	48 - 112	0.389	20
Selenium	91.3894	1.0	125.000	0.449018	72.8	53 - 104	2.15	20
Silver	99.1389	1.0	125.000	ND	79.3	61 - 109	1.38	20
Thallium	90.3968	1.0	125.000	ND	72.3	44 - 103	2.38	20
Vanadium	124.958	1.0	125.000	24.6417	80.3	55 - 115	0.482	20
Zinc	131.014	1.0	125.000	40.1647	72.7	24 - 130	0.385	20



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Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Mercury by AA (Cold Vapor) EPA 7471 - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B3E0672 - EPA 7471									
Blank (B3E0672-BLK1)				Prepared: 5/31/2013 Analyzed: 5/31/2013					
Mercury	ND	0.10			NR				
LCS (B3E0672-BS1)				Prepared: 5/31/2013 Analyzed: 5/31/2013					
Mercury	0.860316	0.10	0.833333		103	80 - 120			
Matrix Spike (B3E0672-MS1)				Prepared: 5/31/2013 Analyzed: 5/31/2013					
Mercury	0.799170	0.10	0.833333	ND	95.9	70 - 130			
Matrix Spike Dup (B3E0672-MSD1)				Prepared: 5/31/2013 Analyzed: 5/31/2013					
Mercury	0.756185	0.10	0.833333	ND	90.7	70 - 130	5.53	20	
Post Spike (B3E0672-PS1)				Prepared: 5/31/2013 Analyzed: 5/31/2013					
Mercury	0.005063		5.00000E-3	0.000073	99.8	70 - 130			



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Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Gasoline Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B3E0556 - GCVOAS									
Blank (B3E0556-BLK1)				Prepared: 5/28/2013 Analyzed: 5/28/2013					
Gasoline Range Organics	ND	1.0			NR				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.08168		0.100000		81.7	54 - 150			
LCS (B3E0556-BS1)				Prepared: 5/28/2013 Analyzed: 5/28/2013					
Gasoline Range Organics	4.13100	1.0	5.00000		82.6	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.09637		0.100000		96.4	54 - 150			
LCS Dup (B3E0556-BSD1)				Prepared: 5/28/2013 Analyzed: 5/28/2013					
Gasoline Range Organics	4.23800	1.0	5.00000		84.8	70 - 130	2.56	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.09856		0.100000		98.6	54 - 150			
Matrix Spike (B3E0556-MS1)				Source: 1301538-05		Prepared: 5/28/2013 Analyzed: 5/28/2013			
Gasoline Range Organics	3.92600	1.0	5.00000	ND	78.5	42 - 125			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.1013		0.100000		101	54 - 150			
Matrix Spike Dup (B3E0556-MSD1)				Source: 1301538-05		Prepared: 5/28/2013 Analyzed: 5/28/2013			
Gasoline Range Organics	3.85600	1.0	5.00000	ND	77.1	42 - 125	1.80	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.09900		0.100000		99.0	54 - 150			
Batch B3E0597 - GCVOAW									
Blank (B3E0597-BLK1)				Prepared: 5/29/2013 Analyzed: 5/29/2013					
Gasoline Range Organics	ND	0.05			NR				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.1047		0.100000		105	70 - 130			
LCS (B3E0597-BS1)				Prepared: 5/29/2013 Analyzed: 5/29/2013					
Gasoline Range Organics	0.941000		1.00000		94.1	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.1110		0.100000		111	70 - 130			
LCS Dup (B3E0597-BSD1)				Prepared: 5/29/2013 Analyzed: 5/29/2013					
Gasoline Range Organics	0.910000		1.00000		91.0	70 - 130	3.35	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.1085		0.100000		109	70 - 130			



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Project Number : Kent Ave, 402090002
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Diesel Range Organics by EPA 8015B (SGT) - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B3E0573 - GCSEMI_DRO

Blank (B3E0573-BLK1)

Prepared: 5/28/2013 Analyzed: 5/28/2013

DRO	ND	0.05			NR				
ORO	ND	0.05			NR				
<i>Surrogate: p-Terphenyl</i>	0.07479		8.00000E-2		93.5	38 - 151			

LCS (B3E0573-BS1)

Prepared: 5/28/2013 Analyzed: 5/28/2013

DRO	1.02680	0.05	1.00000		103	50 - 121			
<i>Surrogate: p-Terphenyl</i>	0.06761		8.00000E-2		84.5	38 - 151			

LCS Dup (B3E0573-BSD1)

Prepared: 5/28/2013 Analyzed: 5/28/2013

DRO	1.06510	0.05	1.00000		107	50 - 121	3.66	20	
<i>Surrogate: p-Terphenyl</i>	0.06948		8.00000E-2		86.8	38 - 151			

Batch B3E0636 - GCSEMI_DRO_SOIL_LL

Blank (B3E0636-BLK1)

Prepared: 5/30/2013 Analyzed: 5/30/2013

DRO	ND	1.0			NR				
ORO	ND	1.0			NR				
<i>Surrogate: p-Terphenyl</i>	2.058		2.66667		77.2	33 - 147			



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Diesel Range Organics by EPA 8015B (SGT) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0636 - GCSEMI_DRO_SOIL_LL (continued)

LCS (B3E0636-BS1)

Prepared: 5/30/2013 Analyzed: 5/30/2013

DRO	31.7617	1.0	33.3333		95.3	43 - 120
Surrogate: <i>p-Terphenyl</i>	2.081		2.66667		78.0	33 - 147



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Diesel Range Organics by EPA 8015B (SGT) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0636 - GCSEMI_DRO_SOIL_LL (continued)

Matrix Spike (B3E0636-MS1)

Source: 1301538-01

Prepared: 5/30/2013 Analyzed: 5/30/2013

DRO	34.5913	1.0	33.3333	4.35333	90.7	17 - 112			
Surrogate: <i>p</i> -Terphenyl	2.193		2.66667		82.2	33 - 147			



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Diesel Range Organics by EPA 8015B (SGT) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0636 - GCSEMI_DRO_SOIL_LL (continued)

Matrix Spike Dup (B3E0636-MSD1)

Source: 1301538-01

Prepared: 5/30/2013 Analyzed: 5/30/2013

DRO	35.9913	1.0	33.3333	4.35333	94.9	17 - 112	3.97	20
<i>Surrogate: p-Terphenyl</i>	<i>2.201</i>		<i>2.66667</i>		<i>82.5</i>	<i>33 - 147</i>		



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Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	Limits RPD	RPD Limit	Notes
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Batch B3E0644 - GCSEMI_PCB/PEST

Blank (B3E0644-BLK1)

Prepared: 5/30/2013 Analyzed: 5/30/2013

4,4'-DDD	ND	2.0			NR			
4,4'-DDD [2C]	ND	2.0			NR			
4,4'-DDE	ND	2.0			NR			
4,4'-DDE [2C]	ND	2.0			NR			
4,4'-DDT	ND	2.0			NR			
4,4'-DDT [2C]	ND	2.0			NR			
Aldrin	ND	1.0			NR			
Aldrin [2C]	ND	1.0			NR			
alpha-BHC	ND	1.0			NR			
alpha-BHC [2C]	ND	1.0			NR			
alpha-Chlordane	ND	1.0			NR			
alpha-Chlordane [2C]	ND	1.0			NR			
beta-BHC	ND	1.0			NR			
beta-BHC [2C]	ND	1.0			NR			
Chlordane	ND	8.5			NR			
Chlordane [2C]	ND	8.5			NR			
delta-BHC	ND	1.0			NR			
delta-BHC [2C]	ND	1.0			NR			
Dieldrin	ND	2.0			NR			
Dieldrin [2C]	ND	2.0			NR			
Endosulfan I	ND	1.0			NR			
Endosulfan I [2C]	ND	1.0			NR			
Endosulfan II	ND	2.0			NR			
Endosulfan II [2C]	ND	2.0			NR			
Endosulfan sulfate	ND	2.0			NR			
Endosulfan Sulfate [2C]	ND	2.0			NR			
Endrin	ND	2.0			NR			
Endrin [2C]	ND	2.0			NR			
Endrin aldehyde	ND	2.0			NR			
Endrin aldehyde [2C]	ND	2.0			NR			
Endrin ketone	ND	2.0			NR			
Endrin ketone [2C]	ND	2.0			NR			
gamma-BHC	ND	1.0			NR			
gamma-BHC [2C]	ND	1.0			NR			
gamma-Chlordane	ND	1.0			NR			
gamma-Chlordane [2C]	ND	1.0			NR			
Heptachlor	ND	1.0			NR			
Heptachlor [2C]	ND	1.0			NR			
Heptachlor epoxide	ND	1.0			NR			
Heptachlor epoxide [2C]	ND	1.0			NR			
Methoxychlor	ND	5.0			NR			



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0644 - GCSEMI_PCB/PEST (continued)

Blank (B3E0644-BLK1) - Continued

Prepared: 5/30/2013 Analyzed: 5/30/2013

Methoxychlor [2C]	ND	5.0				NR			
Toxaphene	ND	50				NR			
Toxaphene [2C]	ND	50				NR			
<i>Surrogate: Decachlorobiphenyl</i>	<i>17.62</i>		<i>16.6667</i>			<i>106</i>	<i>32 - 113</i>		
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>16.92</i>		<i>16.6667</i>			<i>102</i>	<i>32 - 113</i>		
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>13.34</i>		<i>16.6667</i>			<i>80.0</i>	<i>32 - 101</i>		
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>12.75</i>		<i>16.6667</i>			<i>76.5</i>	<i>32 - 101</i>		



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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0644 - GCSEMI_PCB/PEST (continued)

LCS (B3E0644-BS1)

Prepared: 5/30/2013 Analyzed: 5/31/2013

4,4'-DDT	15.9440	2.0	16.6667	95.7	60 - 108
4,4'-DDT [2C]	15.6968	2.0	16.6667	94.2	60 - 108
Aldrin	13.3403	1.0	16.6667	80.0	57 - 111
Aldrin [2C]	12.6862	1.0	16.6667	76.1	57 - 111
Dieldrin	13.6300	2.0	16.6667	81.8	61 - 106
Dieldrin [2C]	13.3290	2.0	16.6667	80.0	61 - 106
Endrin	15.2720	2.0	16.6667	91.6	57 - 97
Endrin [2C]	15.2657	2.0	16.6667	91.6	57 - 97
gamma-BHC	13.1617	1.0	16.6667	79.0	61 - 109
gamma-BHC [2C]	12.6483	1.0	16.6667	75.9	61 - 109
Heptachlor	14.8590	1.0	16.6667	89.2	58 - 115
Heptachlor [2C]	15.3058	1.0	16.6667	91.8	58 - 115
<i>Surrogate: Decachlorobiphenyl</i>	<i>15.66</i>		<i>16.6667</i>	<i>94.0</i>	<i>32 - 113</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>15.07</i>		<i>16.6667</i>	<i>90.4</i>	<i>32 - 113</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>12.26</i>		<i>16.6667</i>	<i>73.6</i>	<i>32 - 101</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>12.07</i>		<i>16.6667</i>	<i>72.4</i>	<i>32 - 101</i>



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0644 - GCSEMI_PCB/PEST (continued)

Duplicate (B3E0644-DUP1)

Source: 1301539-33

Prepared: 5/30/2013 Analyzed: 5/31/2013

4,4'-DDT	1.25150	2.0		1.26505	NR		1.08	20	
4,4'-DDT [2C]	1.52083	2.0		1.55134	NR		1.99	20	
Aldrin	ND	1.0		ND	NR			20	
Aldrin [2C]	ND	1.0		ND	NR			20	
Dieldrin	ND	2.0		ND	NR			20	
Dieldrin [2C]	ND	2.0		ND	NR			20	
Endrin	ND	2.0		ND	NR			20	
Endrin [2C]	ND	2.0		ND	NR			20	
gamma-BHC	ND	1.0		ND	NR			20	
gamma-BHC [2C]	ND	1.0		ND	NR			20	
Heptachlor	ND	1.0		ND	NR			20	
Heptachlor [2C]	ND	1.0		ND	NR			20	
<hr/>									
<i>Surrogate: Decachlorobiphenyl</i>	<i>18.80</i>		<i>16.6667</i>		<i>113</i>		<i>32 - 113</i>		
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>18.05</i>		<i>16.6667</i>		<i>108</i>		<i>32 - 113</i>		
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>14.50</i>		<i>16.6667</i>		<i>87.0</i>		<i>32 - 101</i>		
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>14.79</i>		<i>16.6667</i>		<i>88.7</i>		<i>32 - 101</i>		



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0644 - GCSEMI_PCB/PEST (continued)

Matrix Spike (B3E0644-MS1)	Source: 1301539-33			Prepared: 5/30/2013 Analyzed: 5/31/2013		
4,4'-DDT	19.1477	2.0	16.6667	1.26505	107	26 - 133
4,4'-DDT [2C]	18.1285	2.0	16.6667	1.55134	99.5	26 - 133
Aldrin	15.5303	1.0	16.6667	ND	93.2	38 - 119
Aldrin [2C]	14.3645	1.0	16.6667	ND	86.2	38 - 119
Dieldrin	15.4562	2.0	16.6667	ND	92.7	30 - 120
Dieldrin [2C]	14.6952	2.0	16.6667	ND	88.2	30 - 120
Endrin	17.0095	2.0	16.6667	ND	102	30 - 114
Endrin [2C]	16.4915	2.0	16.6667	ND	98.9	30 - 114
gamma-BHC	15.6568	1.0	16.6667	ND	93.9	31 - 122
gamma-BHC [2C]	14.8878	1.0	16.6667	ND	89.3	31 - 122
Heptachlor	17.1648	1.0	16.6667	ND	103	38 - 123
Heptachlor [2C]	17.0013	1.0	16.6667	ND	102	38 - 123
<i>Surrogate: Decachlorobiphenyl</i>	<i>16.33</i>		<i>16.6667</i>		<i>98.0</i>	<i>32 - 113</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>14.71</i>		<i>16.6667</i>		<i>88.3</i>	<i>32 - 113</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>12.74</i>		<i>16.6667</i>		<i>76.4</i>	<i>32 - 101</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>12.65</i>		<i>16.6667</i>		<i>75.9</i>	<i>32 - 101</i>



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0644 - GCSEMI_PCB/PEST (continued)

Matrix Spike Dup (B3E0644-MSD1)

Source: 1301539-33

Prepared: 5/30/2013 Analyzed: 5/31/2013

4,4'-DDT	19.6373	2.0	16.6667	1.26505	110	26 - 133	2.52	20	
4,4'-DDT [2C]	18.7423	2.0	16.6667	1.55134	103	26 - 133	3.33	20	
Aldrin	15.7965	1.0	16.6667	ND	94.8	38 - 119	1.70	20	
Aldrin [2C]	14.7682	1.0	16.6667	ND	88.6	38 - 119	2.77	20	
Dieldrin	15.8640	2.0	16.6667	ND	95.2	30 - 120	2.60	20	
Dieldrin [2C]	15.0737	2.0	16.6667	ND	90.4	30 - 120	2.54	20	
Endrin	17.3758	2.0	16.6667	ND	104	30 - 114	2.13	20	
Endrin [2C]	17.0397	2.0	16.6667	ND	102	30 - 114	3.27	20	
gamma-BHC	15.8268	1.0	16.6667	ND	95.0	31 - 122	1.08	20	
gamma-BHC [2C]	15.1788	1.0	16.6667	ND	91.1	31 - 122	1.94	20	
Heptachlor	17.4263	1.0	16.6667	ND	105	38 - 123	1.51	20	
Heptachlor [2C]	17.3942	1.0	16.6667	ND	104	38 - 123	2.28	20	
<i>Surrogate: Decachlorobiphenyl</i>	<i>16.88</i>		<i>16.6667</i>		<i>101</i>	<i>32 - 113</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>15.25</i>		<i>16.6667</i>		<i>91.5</i>	<i>32 - 113</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>12.92</i>		<i>16.6667</i>		<i>77.5</i>	<i>32 - 101</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>12.88</i>		<i>16.6667</i>		<i>77.3</i>	<i>32 - 101</i>			



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Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0642 - GCSEMI_PCB/PEST

Blank (B3E0642-BLK1)

Prepared: 5/30/2013 Analyzed: 5/30/2013

Aroclor 1016	ND	16						NR	
Aroclor 1221	ND	16						NR	
Aroclor 1232	ND	16						NR	
Aroclor 1242	ND	16						NR	
Aroclor 1248	ND	16						NR	
Aroclor 1254	ND	16						NR	
Aroclor 1260	ND	16						NR	
Aroclor 1262	ND	16						NR	
Aroclor 1268	ND	16						NR	
<i>Surrogate: Decachlorobiphenyl</i>	15.45		16.6667		92.7	39 - 128			
<i>Surrogate: Tetrachloro-m-xylene</i>	16.06		16.6667		96.4	38 - 122			



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Polychlorinated Biphenyls by EPA 8082 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0642 - GCSEMI_PCB/PEST (continued)

LCS (B3E0642-BS1)

Prepared: 5/30/2013 Analyzed: 5/30/2013

Aroclor 1016	132.660	16	166.667		79.6	64 - 100			
Aroclor 1260	146.124	16	166.667		87.7	68 - 100			
<i>Surrogate: Decachlorobiphenyl</i>	<i>15.33</i>		<i>16.6667</i>		<i>92.0</i>	<i>39 - 128</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>15.30</i>		<i>16.6667</i>		<i>91.8</i>	<i>38 - 122</i>			



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Polychlorinated Biphenyls by EPA 8082 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0642 - GCSEMI_PCB/PEST (continued)

Matrix Spike (B3E0642-MS1)

Source: 1301567-06

Prepared: 5/30/2013 Analyzed: 5/30/2013

Aroclor 1016	163.726	16	166.667	ND	98.2	48 - 126			
Aroclor 1260	173.508	16	166.667	ND	104	46 - 130			
<i>Surrogate: Decachlorobiphenyl</i>	<i>18.09</i>		<i>16.6667</i>		<i>109</i>	<i>39 - 128</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>17.85</i>		<i>16.6667</i>		<i>107</i>	<i>38 - 122</i>			



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Polychlorinated Biphenyls by EPA 8082 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0642 - GCSEMI_PCB/PEST (continued)

Matrix Spike Dup (B3E0642-MSD1)

Source: 1301567-06

Prepared: 5/30/2013 Analyzed: 5/30/2013

Aroclor 1016	163.459	16	166.667	ND	98.1	48 - 126	0.163	20	
Aroclor 1260	173.148	16	166.667	ND	104	46 - 130	0.208	20	
<i>Surrogate: Decachlorobiphenyl</i>	<i>18.04</i>		<i>16.6667</i>		<i>108</i>	<i>39 - 128</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>17.69</i>		<i>16.6667</i>		<i>106</i>	<i>38 - 122</i>			



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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	Limits Limits	RPD RPD	Limit Limit	Notes
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Batch B3E0569 - MSVOAS

Blank (B3E0569-BLK1)

Prepared: 5/28/2013 Analyzed: 5/28/2013

1,1,1,2-Tetrachloroethane	ND	5.0			NR				
1,1,1-Trichloroethane	ND	5.0			NR				
1,1,2,2-Tetrachloroethane	ND	5.0			NR				
1,1,2-Trichloroethane	ND	5.0			NR				
1,1-Dichloroethane	ND	5.0			NR				
1,1-Dichloroethene	ND	5.0			NR				
1,1-Dichloropropene	ND	5.0			NR				
1,2,3-Trichloropropane	ND	5.0			NR				
1,2,3-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trimethylbenzene	ND	5.0			NR				
1,2-Dibromo-3-chloropropane	ND	10			NR				
1,2-Dibromoethane	ND	5.0			NR				
1,2-Dichlorobenzene	ND	5.0			NR				
1,2-Dichloroethane	ND	5.0			NR				
1,2-Dichloropropane	ND	5.0			NR				
1,3,5-Trimethylbenzene	ND	5.0			NR				
1,3-Dichlorobenzene	ND	5.0			NR				
1,3-Dichloropropane	ND	5.0			NR				
1,4-Dichlorobenzene	ND	5.0			NR				
2,2-Dichloropropane	ND	5.0			NR				
2-Chlorotoluene	ND	5.0			NR				
4-Chlorotoluene	ND	5.0			NR				
4-Isopropyltoluene	ND	5.0			NR				
Benzene	ND	5.0			NR				
Bromobenzene	ND	5.0			NR				
Bromochloromethane	ND	5.0			NR				
Bromodichloromethane	ND	5.0			NR				
Bromoform	ND	5.0			NR				
Bromomethane	ND	5.0			NR				
Carbon disulfide	ND	5.0			NR				
Carbon tetrachloride	ND	5.0			NR				
Chlorobenzene	ND	5.0			NR				
Chloroethane	ND	5.0			NR				
Chloroform	ND	5.0			NR				
Chloromethane	ND	5.0			NR				
cis-1,2-Dichloroethene	ND	5.0			NR				
cis-1,3-Dichloropropene	ND	5.0			NR				
Di-isopropyl ether	ND	5.0			NR				
Dibromochloromethane	ND	5.0			NR				
Dibromomethane	ND	5.0			NR				



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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0569 - MSVOAS (continued)

Blank (B3E0569-BLK1) - Continued

Prepared: 5/28/2013 Analyzed: 5/28/2013

Dichlorodifluoromethane	ND	5.0			NR				
Ethyl Acetate	ND	50			NR				
Ethyl Ether	ND	50			NR				
Ethyl tert-butyl ether	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
Freon-113	ND	5.0			NR				
Hexachlorobutadiene	ND	5.0			NR				
Isopropylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
Methylene chloride	ND	5.0			NR				
MTBE	ND	5.0			NR				
n-Butylbenzene	ND	5.0			NR				
n-Propylbenzene	ND	5.0			NR				
Naphthalene	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
sec-Butylbenzene	ND	5.0			NR				
Styrene	ND	5.0			NR				
tert-Amyl methyl ether	ND	5.0			NR				
tert-Butanol	ND	100			NR				
tert-Butylbenzene	ND	5.0			NR				
Tetrachloroethene	ND	5.0			NR				
Toluene	ND	5.0			NR				
trans-1,2-Dichloroethene	ND	5.0			NR				
trans-1,3-Dichloropropene	ND	5.0			NR				
Trichloroethene	ND	5.0			NR				
Trichlorofluoromethane	ND	5.0			NR				
Vinyl acetate	ND	50			NR				
Vinyl chloride	ND	5.0			NR				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.52</i>		<i>50.0000</i>		<i>99.0</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>45.91</i>		<i>50.0000</i>		<i>91.8</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>52.87</i>		<i>50.0000</i>		<i>106</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.15</i>		<i>50.0000</i>		<i>96.3</i>	<i>70 - 130</i>			



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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0569 - MSVOAS (continued)

LCS (B3E0569-BS1)

Prepared: 5/28/2013 Analyzed: 5/28/2013

1,1-Dichloroethene	39.6500	5.0	50.0000		79.3	70 - 130			
Benzene	95.2700	5.0	100.000		95.3	70 - 130			
Chlorobenzene	49.9200	5.0	50.0000		99.8	70 - 130			
MTBE	49.0600	5.0	50.0000		98.1	70 - 130			
Toluene	100.850	5.0	100.000		101	70 - 130			
Trichloroethene	49.4100	5.0	50.0000		98.8	70 - 130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.34</i>		<i>50.0000</i>		<i>94.7</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.19</i>		<i>50.0000</i>		<i>94.4</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>46.92</i>		<i>50.0000</i>		<i>93.8</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.43</i>		<i>50.0000</i>		<i>96.9</i>	<i>70 - 130</i>			



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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0569 - MSVOAS (continued)

LCS Dup (B3E0569-BSD1)

Prepared: 5/28/2013 Analyzed: 5/28/2013

1,1-Dichloroethene	39.6800	5.0	50.0000		79.4	70 - 130	0.0756	20	
Benzene	97.5600	5.0	100.0000		97.6	70 - 130	2.38	20	
Chlorobenzene	51.3400	5.0	50.0000		103	70 - 130	2.80	20	
MTBE	52.4800	5.0	50.0000		105	70 - 130	6.74	20	
Toluene	103.130	5.0	100.0000		103	70 - 130	2.24	20	
Trichloroethene	51.1900	5.0	50.0000		102	70 - 130	3.54	20	
<hr/>									
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.00</i>		<i>50.0000</i>		<i>98.0</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.58</i>		<i>50.0000</i>		<i>95.2</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.13</i>		<i>50.0000</i>		<i>100</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.30</i>		<i>50.0000</i>		<i>96.6</i>	<i>70 - 130</i>			



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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0569 - MSVOAS (continued)

Matrix Spike (B3E0569-MS1)

Source: 1301538-05

Prepared: 5/28/2013 Analyzed: 5/28/2013

1,1-Dichloroethene	37.5500	5.0	50.0000	ND	75.1	70 - 130			
Benzene	86.6400	5.0	100.000	ND	86.6	70 - 130			
Chlorobenzene	42.9600	5.0	50.0000	ND	85.9	70 - 130			
MTBE	51.1600	5.0	50.0000	ND	102	70 - 130			
Toluene	93.0300	5.0	100.000	ND	93.0	70 - 130			
Trichloroethene	44.8600	5.0	50.0000	ND	89.7	70 - 130			
<hr/>									
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>52.71</i>		<i>50.0000</i>		<i>105</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.71</i>		<i>50.0000</i>		<i>95.4</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>52.56</i>		<i>50.0000</i>		<i>105</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.40</i>		<i>50.0000</i>		<i>98.8</i>	<i>70 - 130</i>			



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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0569 - MSVOAS (continued)

Matrix Spike Dup (B3E0569-MSD1)

Source: 1301538-05

Prepared: 5/28/2013 Analyzed: 5/28/2013

1,1-Dichloroethene	39.7800	5.0	50.0000	ND	79.6	70 - 130	5.77	20	
Benzene	88.2100	5.0	100.0000	ND	88.2	70 - 130	1.80	20	
Chlorobenzene	43.8900	5.0	50.0000	ND	87.8	70 - 130	2.14	20	
MTBE	52.5000	5.0	50.0000	ND	105	70 - 130	2.59	20	
Toluene	93.6200	5.0	100.0000	ND	93.6	70 - 130	0.632	20	
Trichloroethene	47.0400	5.0	50.0000	ND	94.1	70 - 130	4.74	20	
<hr/>									
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>56.01</i>		<i>50.0000</i>		<i>112</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.63</i>		<i>50.0000</i>		<i>95.3</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>55.57</i>		<i>50.0000</i>		<i>111</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.72</i>		<i>50.0000</i>		<i>99.4</i>	<i>70 - 130</i>			



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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B3E0592 - MSVOAS

Blank (B3E0592-BLK1)

Prepared: 5/29/2013 Analyzed: 5/29/2013

1,1,1,2-Tetrachloroethane	ND	5.0			NR
1,1,1-Trichloroethane	ND	5.0			NR
1,1,2,2-Tetrachloroethane	ND	5.0			NR
1,1,2-Trichloroethane	ND	5.0			NR
1,1-Dichloroethane	ND	5.0			NR
1,1-Dichloroethene	ND	5.0			NR
1,1-Dichloropropene	ND	5.0			NR
1,2,3-Trichloropropane	ND	5.0			NR
1,2,3-Trichlorobenzene	ND	5.0			NR
1,2,4-Trichlorobenzene	ND	5.0			NR
1,2,4-Trimethylbenzene	ND	5.0			NR
1,2-Dibromo-3-chloropropane	ND	10			NR
1,2-Dibromoethane	ND	5.0			NR
1,2-Dichlorobenzene	ND	5.0			NR
1,2-Dichloroethane	ND	5.0			NR
1,2-Dichloropropane	ND	5.0			NR
1,3,5-Trimethylbenzene	ND	5.0			NR
1,3-Dichlorobenzene	ND	5.0			NR
1,3-Dichloropropane	ND	5.0			NR
1,4-Dichlorobenzene	ND	5.0			NR
2,2-Dichloropropane	ND	5.0			NR
2-Chlorotoluene	ND	5.0			NR
4-Chlorotoluene	ND	5.0			NR
4-Isopropyltoluene	ND	5.0			NR
Benzene	ND	5.0			NR
Bromobenzene	ND	5.0			NR
Bromochloromethane	ND	5.0			NR
Bromodichloromethane	ND	5.0			NR
Bromoform	ND	5.0			NR
Bromomethane	ND	5.0			NR
Carbon disulfide	ND	5.0			NR
Carbon tetrachloride	ND	5.0			NR
Chlorobenzene	ND	5.0			NR
Chloroethane	ND	5.0			NR
Chloroform	ND	5.0			NR
Chloromethane	ND	5.0			NR
cis-1,2-Dichloroethene	ND	5.0			NR
cis-1,3-Dichloropropene	ND	5.0			NR
Di-isopropyl ether	ND	5.0			NR
Dibromochloromethane	ND	5.0			NR
Dibromomethane	ND	5.0			NR



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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0592 - MSVOAS (continued)

Blank (B3E0592-BLK1) - Continued

Prepared: 5/29/2013 Analyzed: 5/29/2013

Dichlorodifluoromethane	ND	5.0			NR				
Ethyl Acetate	ND	50			NR				
Ethyl Ether	ND	50			NR				
Ethyl tert-butyl ether	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
Freon-113	ND	5.0			NR				
Hexachlorobutadiene	ND	5.0			NR				
Isopropylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
Methylene chloride	ND	5.0			NR				
MTBE	ND	5.0			NR				
n-Butylbenzene	ND	5.0			NR				
n-Propylbenzene	ND	5.0			NR				
Naphthalene	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
sec-Butylbenzene	ND	5.0			NR				
Styrene	ND	5.0			NR				
tert-Amyl methyl ether	ND	5.0			NR				
tert-Butanol	ND	100			NR				
tert-Butylbenzene	ND	5.0			NR				
Tetrachloroethene	ND	5.0			NR				
Toluene	ND	5.0			NR				
trans-1,2-Dichloroethene	ND	5.0			NR				
trans-1,3-Dichloropropene	ND	5.0			NR				
Trichloroethene	ND	5.0			NR				
Trichlorofluoromethane	ND	5.0			NR				
Vinyl acetate	ND	50			NR				
Vinyl chloride	ND	5.0			NR				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>62.83</i>		<i>50.0000</i>		<i>126</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>46.44</i>		<i>50.0000</i>		<i>92.9</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>62.29</i>		<i>50.0000</i>		<i>125</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.26</i>		<i>50.0000</i>		<i>98.5</i>	<i>70 - 130</i>			



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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0592 - MSVOAS (continued)

LCS (B3E0592-BS1)

Prepared: 5/29/2013 Analyzed: 5/29/2013

1,1-Dichloroethene	41.3600	5.0	50.0000		82.7	70 - 130			
Benzene	99.3400	5.0	100.0000		99.3	70 - 130			
Chlorobenzene	49.7700	5.0	50.0000		99.5	70 - 130			
MTBE	56.6800	5.0	50.0000		113	70 - 130			
Toluene	105.490	5.0	100.0000		105	70 - 130			
Trichloroethene	49.7100	5.0	50.0000		99.4	70 - 130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>57.90</i>		<i>50.0000</i>		<i>116</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>46.61</i>		<i>50.0000</i>		<i>93.2</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>56.56</i>		<i>50.0000</i>		<i>113</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.00</i>		<i>50.0000</i>		<i>98.0</i>	<i>70 - 130</i>			



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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0592 - MSVOAS (continued)

LCS Dup (B3E0592-BSD1)

Prepared: 5/29/2013 Analyzed: 5/29/2013

1,1-Dichloroethene	42.3400	5.0	50.0000		84.7	70 - 130	2.34	20	
Benzene	101.390	5.0	100.000		101	70 - 130	2.04	20	
Chlorobenzene	50.0500	5.0	50.0000		100	70 - 130	0.561	20	
MTBE	58.9700	5.0	50.0000		118	70 - 130	3.96	20	
Toluene	108.820	5.0	100.000		109	70 - 130	3.11	20	
Trichloroethene	50.2600	5.0	50.0000		101	70 - 130	1.10	20	
<hr/>									
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>58.61</i>		<i>50.0000</i>		<i>117</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.81</i>		<i>50.0000</i>		<i>95.6</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>55.21</i>		<i>50.0000</i>		<i>110</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.07</i>		<i>50.0000</i>		<i>100</i>	<i>70 - 130</i>			



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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0592 - MSVOAS (continued)

Matrix Spike (B3E0592-MS1)

Source: 1301538-16

Prepared: 5/29/2013 Analyzed: 5/29/2013

1,1-Dichloroethene	39.4300	5.0	50.0000	ND	78.9	70 - 130			
Benzene	78.1800	5.0	100.0000	ND	78.2	70 - 130			
Chlorobenzene	32.4200	5.0	50.0000	ND	64.8	70 - 130			M1
MTBE	44.4800	5.0	50.0000	ND	89.0	70 - 130			
Toluene	80.8900	5.0	100.0000	ND	80.9	70 - 130			
Trichloroethene	38.3700	5.0	50.0000	ND	76.7	70 - 130			
<hr/>									
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>58.26</i>		<i>50.0000</i>		<i>117</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.38</i>		<i>50.0000</i>		<i>96.8</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>57.11</i>		<i>50.0000</i>		<i>114</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.71</i>		<i>50.0000</i>		<i>99.4</i>	<i>70 - 130</i>			



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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0592 - MSVOAS (continued)

Matrix Spike Dup (B3E0592-MSD1)

Source: 1301538-16

Prepared: 5/29/2013 Analyzed: 5/29/2013

1,1-Dichloroethene	37.0600	5.0	50.0000	ND	74.1	70 - 130	6.20	20	
Benzene	75.5500	5.0	100.0000	ND	75.6	70 - 130	3.42	20	
Chlorobenzene	31.0800	5.0	50.0000	ND	62.2	70 - 130	4.22	20	M1
MTBE	44.6000	5.0	50.0000	ND	89.2	70 - 130	0.269	20	
Toluene	77.0400	5.0	100.0000	ND	77.0	70 - 130	4.88	20	
Trichloroethene	36.9100	5.0	50.0000	ND	73.8	70 - 130	3.88	20	
<hr/>									
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>56.71</i>		<i>50.0000</i>		<i>113</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.10</i>		<i>50.0000</i>		<i>98.2</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>56.07</i>		<i>50.0000</i>		<i>112</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.94</i>		<i>50.0000</i>		<i>97.9</i>	<i>70 - 130</i>			



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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0570 - MSVOAW_LL

Blank (B3E0570-BLK1)

Prepared: 5/28/2013 Analyzed: 5/28/2013

1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chloroethyl vinyl ether	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromochloromethane	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon disulfide	ND	1.0			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Di-isopropyl ether	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				



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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0570 - MSVOAW_LL (continued)

Blank (B3E0570-BLK1) - Continued

Prepared: 5/28/2013 Analyzed: 5/28/2013

Dibromomethane	ND	0.50				NR			
Dichlorodifluoromethane	ND	0.50				NR			
Ethyl Acetate	ND	10				NR			
Ethyl Ether	ND	10				NR			
Ethyl tert-butyl ether	ND	0.50				NR			
Ethylbenzene	ND	0.50				NR			
Freon-113	ND	0.50				NR			
Hexachlorobutadiene	ND	0.50				NR			
Isopropylbenzene	ND	0.50				NR			
m,p-Xylene	ND	1.0				NR			
Methylene chloride	ND	1.0				NR			
MTBE	ND	0.50				NR			
n-Butylbenzene	ND	0.50				NR			
n-Propylbenzene	ND	0.50				NR			
Naphthalene	ND	0.50				NR			
o-Xylene	ND	0.50				NR			
sec-Butylbenzene	ND	0.50				NR			
Styrene	ND	0.50				NR			
tert-Amyl methyl ether	ND	0.50				NR			
tert-Butanol	ND	10				NR			
tert-Butylbenzene	ND	0.50				NR			
Tetrachloroethene	ND	0.50				NR			
Toluene	ND	0.50				NR			
trans-1,2-Dichloroethene	ND	0.50				NR			
trans-1,3-Dichloropropene	ND	0.50				NR			
Trichloroethene	ND	0.50				NR			
Trichlorofluoromethane	ND	0.50				NR			
Vinyl acetate	ND	10				NR			
Vinyl chloride	ND	0.50				NR			
<hr/>									
Surrogate: 1,2-Dichloroethane-d4	26.19		25.0000		105	70 - 130			
Surrogate: 4-Bromofluorobenzene	21.54		25.0000		86.2	70 - 130			
Surrogate: Dibromofluoromethane	24.62		25.0000		98.5	70 - 130			
Surrogate: Toluene-d8	20.40		25.0000		81.6	70 - 130			



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0570 - MSVOAW_LL (continued)

LCS (B3E0570-BS1)

Prepared: 5/28/2013 Analyzed: 5/28/2013

1,1-Dichloroethene	20.1500		20.0000		101	70 - 130			
Benzene	39.6400		40.0000		99.1	70 - 130			
Chlorobenzene	17.4200		20.0000		87.1	70 - 130			
MTBE	20.9300		20.0000		105	70 - 130			
Toluene	40.8300		40.0000		102	70 - 130			
Trichloroethene	18.6700		20.0000		93.4	70 - 130			
<hr/>									
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>22.79</i>		<i>25.0000</i>		<i>91.2</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>20.96</i>		<i>25.0000</i>		<i>83.8</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>21.97</i>		<i>25.0000</i>		<i>87.9</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>22.57</i>		<i>25.0000</i>		<i>90.3</i>	<i>70 - 130</i>			



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0570 - MSVOAW_LL (continued)

LCS Dup (B3E0570-BSD1)

Prepared: 5/28/2013 Analyzed: 5/28/2013

1,1-Dichloroethene	19.7400		20.0000		98.7	70 - 130	2.06	20	
Benzene	39.5900		40.0000		99.0	70 - 130	0.126	20	
Chlorobenzene	17.4900		20.0000		87.4	70 - 130	0.401	20	
MTBE	20.5400		20.0000		103	70 - 130	1.88	20	
Toluene	40.9300		40.0000		102	70 - 130	0.245	20	
Trichloroethene	18.3600		20.0000		91.8	70 - 130	1.67	20	
<hr/>									
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>21.64</i>		<i>25.0000</i>		<i>86.6</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>19.55</i>		<i>25.0000</i>		<i>78.2</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>21.31</i>		<i>25.0000</i>		<i>85.2</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>22.54</i>		<i>25.0000</i>		<i>90.2</i>	<i>70 - 130</i>			



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0676 - MSSEMI_ISOTOPEDILN

Blank (B3E0676-BLK1)

Prepared: 5/31/2013 Analyzed: 5/31/2013

2-Methylnaphthalene	ND	5.0				NR			
Acenaphthene	ND	5.0				NR			
Acenaphthylene	ND	5.0				NR			
Anthracene	ND	5.0				NR			
Benzo(a)anthracene	ND	5.0				NR			
Benzo(a)pyrene	ND	5.0				NR			
Benzo(b)fluoranthene	ND	5.0				NR			
Benzo(g,h,i)perylene	ND	5.0				NR			
Benzo(k)fluoranthene	ND	5.0				NR			
Chrysene	ND	5.0				NR			
Dibenz(a,h)anthracene	ND	5.0				NR			
Fluoranthene	ND	5.0				NR			
Fluorene	ND	5.0				NR			
Indeno(1,2,3-cd)pyrene	ND	5.0				NR			
Naphthalene	ND	5.0				NR			
Phenanthrene	ND	5.0				NR			
Pyrene	ND	5.0				NR			
<hr/>									
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>19.61</i>		<i>33.3333</i>		<i>58.8</i>	<i>28 - 96</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>20.23</i>		<i>33.3333</i>		<i>60.7</i>	<i>36 - 113</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>24.49</i>		<i>33.3333</i>		<i>73.5</i>	<i>29 - 106</i>			
<i>Surrogate: 4-Terphenyl-d14</i>	<i>26.22</i>		<i>33.3333</i>		<i>78.7</i>	<i>39 - 138</i>			



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0676 - MSSEMI_ISOTOPEDILN (continued)

LCS (B3E0676-BS1)

Prepared: 5/31/2013 Analyzed: 5/31/2013

Acenaphthene	26.4683	5.0	33.3333		79.4	50 - 93			
Phenanthrene	30.9033	5.0	33.3333		92.7	46 - 98			
Pyrene	31.2510	5.0	33.3333		93.8	52 - 112			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>26.04</i>		<i>33.3333</i>		<i>78.1</i>	<i>28 - 96</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>28.18</i>		<i>33.3333</i>		<i>84.5</i>	<i>36 - 113</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>33.35</i>		<i>33.3333</i>		<i>100</i>	<i>29 - 106</i>			
<i>Surrogate: 4-Terphenyl-d14</i>	<i>33.24</i>		<i>33.3333</i>		<i>99.7</i>	<i>39 - 138</i>			



Certificate of Analysis

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 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0676 - MSSEMI_ISOTOPE DILN (continued)

Matrix Spike (B3E0676-MS1)

Source: 1301538-11

Prepared: 5/31/2013 Analyzed: 5/31/2013

Acenaphthene	29.5113	5.0	33.3333	ND	88.5	45 - 103			
Phenanthrene	33.8387	5.0	33.3333	ND	102	43 - 115			
Pyrene	33.2733	5.0	33.3333	ND	99.8	49 - 125			
<hr/>									
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>28.76</i>		<i>33.3333</i>		<i>86.3</i>	<i>28 - 96</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>32.04</i>		<i>33.3333</i>		<i>96.1</i>	<i>36 - 113</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>37.34</i>		<i>33.3333</i>		<i>112</i>	<i>29 - 106</i>			S2
<i>Surrogate: 4-Terphenyl-d14</i>	<i>34.51</i>		<i>33.3333</i>		<i>104</i>	<i>39 - 138</i>			



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/04/2013

Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3E0676 - MSSEMI_ISOTOPELILN (continued)

Matrix Spike Dup (B3E0676-MSD1)

Source: 1301538-11

Prepared: 5/31/2013 Analyzed: 5/31/2013

Acenaphthene	30.6897	5.0	33.3333	ND	92.1	45 - 103	3.91	20	
Phenanthrene	33.9977	5.0	33.3333	ND	102	43 - 115	0.469	20	
Pyrene	34.2673	5.0	33.3333	ND	103	49 - 125	2.94	20	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>27.99</i>		<i>33.3333</i>		<i>84.0</i>	<i>28 - 96</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>32.69</i>		<i>33.3333</i>		<i>98.1</i>	<i>36 - 113</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>36.38</i>		<i>33.3333</i>		<i>109</i>	<i>29 - 106</i>			S2
<i>Surrogate: 4-Terphenyl-d14</i>	<i>34.21</i>		<i>33.3333</i>		<i>103</i>	<i>39 - 138</i>			



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/04/2013

Notes and Definitions

S4	Surrogate was diluted out.
S2	Surrogate recovery was below laboratory acceptance limit. Reextraction and/or reanalysis confirms low recovery caused by matrix effects.
S10	Surrogate recovery outside of laboratory acceptance limit possibly due to matrix interference.
S1	Surrogate recovery was above laboratory acceptance limit. No target analyte was detected in the sample.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
E3	Internal standard recoveries did not meet method acceptance.
D2	Sample required dilution due to high concentration of non-target analyte.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

CHAIN OF CUSTODY RECORD



3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O.#: _____ Quote #: _____
As the authorized agent of the below named company, I hereby purchase testing services from ATL as dictated below and guarantee payment in full.
Submitter (Print): Sarah Price
Signature: Sarah Price

Method of Transport
 Client ATL
 FedEx OnTrac
 GSO
 Other: _____

FOR LABORATORY USE ONLY:

Sample Condition Upon Receipt
1. CHILLED Y N 4. SEALED Y N
2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
3. CONTAINER INTACT Y N 6. PRESERVED Y N

Submitter - Please complete all SHADED areas and include QUOTE # above to ensure proper invoicing.

Client: Ninjo + Moore Address: 1956 Webster St TEL: 510-343-3000
Attn: Peter Simis City: Oakland State: CA Zip Code: 94612 FAX: 510-343-3001

Project Name: Kent Ave Project #: 402090002 Sampler: Sarah Price (Printed Name) Sarah Price (Signature)
Relinquished by: Sarah Price Date: 5/23/13 Time: 1600 Received by: Jeff Siegfried Date: 5/23/13 Time: 400p
Relinquished by: Jeff Siegfried Date: 5/23/13 Time: 448p Received by: GSO Date: 5/23/13 Time: 448p
Relinquished by: _____ Date: _____ Time: _____ Received by: C. Ryzak Date: 6/24/13 Time: 9:30

Bill To: Attn: Peter Simis E-mail: psims@ninjoandmore.com Company: N+M Address: 1956 Webster St City: Oakland State: CA Zip: 94612
Send Report To: Attn: Peter Simis E-mail: _____ Company: same Address: _____ City: _____ State: _____ Zip: _____
Special Instructions/Comments: Analyze composite 2 for Title 22 metals
Composite 2: OG1-0-1, OG2-0-1, OG3-0-1, OG4-0-1
Analyze 2 discrete samples for VOCs, TPH, G/L, MO
Perform silica gel treatment prior to analysis

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all Samples and Hardcopy will be disposed Forty-five(45) days after generation of report - electronic copies retained for five(5) years.
Storage Fees (applies when storage is requested):
■ Sample: Forty-five(45) Days Complimentary - \$2.00 / sample / mo thereafter.
Hardcopy Reports \$17.50 per report.

CIRCLE or Write IN Analyses Needed		CIRCLE APPROPRIATE MATRIX		PRESERVATION	Q A / Q C
8260-824 (Volatiles) 8015R (GRO) / 8015R TO-15 / TO-14 / TO-3 / RSK-175 8270B-625(BVA) / 8310(PAHs) 8081 C19C1 / 8141 OrgPO4 Pest 8082 PCBs 6010B-200.7 CAM Metals 6010B-200.7 Metals 6020B-200.8-1B40 Metals 7199-218.6 (Hex. Chromium) 300 (Anions) / 314 (Perchlorate)		SOILS/SEDIMENTS/SLUDGE SOLIDS/WIPES/FILTERS WATER-DRINKING/GROUND WATER-STORM/WASTE AQUEOUS/SILICATED OIL			
				Legal <input type="checkbox"/>	SWRCB <input type="checkbox"/>
				Logcode _____	OTHER _____
				REMARKS	

ITEM	BUSINESS HOURS 8:30 am to 5:30 pm	Sample Description		
		Lab No.	Sample I.D. / Location	Date Time
1		1301538 - 1	OG1-0-1	5/23/13 1010
2		- 2	OG2-0-1	0940
3		- 3	OG3-0-1	0950
4		- 4	OG4-0-1	1000
5		- 5	OG1-1-2	1005
6		- 6	OG2-1-2	0945
7		- 7	OG3-1-2	0955
8		- 8	OG4-1-2	1000
9		- 9	OG2-GW	1040
10				

Container(s)	TAT	#	Type	PRESERVATION	REMARKS
	5 Day	15	1		} Composite 2
					6 HCl VOAs

Samples Submitted AFTER 3:30 PM, are considered received the following business day at 8:30 AM.
 Weekend, Holiday, Off Hours Work ASK for QUOTE
 Container Types: 1=Tube 2=VOA 3=Liter 4=Pint 5=Jar 6=Tedlar 7= Canister
 Material: 1=Glass 2=Plastic 3=Metal
 Preservatives: 1=HCl, 2=HNO₃ 3=H₂SO₄ 4=4°C 5=Zn(Ac)₂ 6=NaOH 7=Na₂S₂O₄
 For RUSH TCLP/STLC, add 2 days to respective TAT.
 Subcon. TAT is 10-15 business days, Dioxin and Furans 21 business days.
 TAT 0 300% SURCHARGE SAME BUSINESS DAY IF RCVD BY 9:00 AM
 TAT 1 100% SURCHARGE NEXT BUSINESS DAY 5:30 PM
 TAT 2 50% SURCHARGE 2ND BUSINESS DAY 5:30 PM
 TAT 3 30% SURCHARGE 3RD BUSINESS DAY 5:30 PM
 TAT 4 20% SURCHARGE 4TH BUSINESS DAY 5:30 PM
 TAT 5 NO SURCHARGE 5-7 BUSINESS DAYS 5:30 PM
 TAT 10 10% DISCOUNT 10th BUSINESS DAY 5:30 PM

Page 127 of 133

CHAIN OF CUSTODY RECORD

<p>ADVANCED TECHNOLOGY LABORATORIES 3275 Walnut Ave., Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>	P.O.#: _____ Quote #: _____	FOR LABORATORY USE ONLY:		
	As the authorized agent of the below named company, I hereby purchase testing services from ATL as dictated below and guarantee payment in full.		Method of Transport <input type="checkbox"/> Client <input type="checkbox"/> ATL <input type="checkbox"/> FedEx <input type="checkbox"/> OnTrac <input type="checkbox"/> GSO <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
	Submitter (Print): <u>Sarah Price</u> Signature: <u>Sarah Price</u>			

Submitter - Please complete all SHADED areas and include QUOTE # above to ensure proper invoicing.

Client: <u>Ninyo + Moore</u>	Address: <u>1956 Webster Street Ste 400</u>	TEL: <u>510-343-3000</u>
Attn: <u>Peter Sims</u>	City: <u>Oakland</u> State: <u>CA</u> Zip Code: <u>94612</u>	FAX: <u>510-343-3001</u>

Project Name: <u>Kent Ave</u>	Project #: <u>402090002</u>	Sampler: <u>Sarah Price</u> (Printed Name)	<u>Sarah Price</u> (Signature)
Relinquished by: <u>Sarah Price</u> (Signature and Printed Name)	Date: <u>5/23/13</u> Time: <u>1600</u>	Received by: <u>Jeff Siegfried</u> (Signature and Printed Name)	Date: <u>5/23/13</u> Time: <u>400</u>
Relinquished by: <u>Jeff Siegfried</u> (Signature and Printed Name)	Date: <u>5/23/13</u> Time: <u>448pm</u>	Received by: <u>GSO</u> (Signature and Printed Name)	Date: <u>5/23/13</u> Time: <u>448pm</u>
Relinquished by: _____ (Signature and Printed Name)	Date: _____ Time: _____	Received by: <u>C. Smith</u> (Signature and Printed Name)	Date: <u>5/24/13</u> Time: <u>810</u>

Bill To: Attn: <u>Peter Sims</u> E-mail: <u>psims@ninyoandmoore.com</u> Company: <u>N+M</u> Address: <u>1956 Webster St</u> City: <u>Oakland</u> State: <u>CA</u> Zip: <u>94612</u>	Send Report To: Attn: <u>Peter Sims</u> E-mail: _____ Company: <u>Same</u> Address: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: <u>Analyze composite 1 for Title 22 metals Composite 1: CP1-0-1, CP2-0-1, CP3-0-1, CP4-0-1. Analyze discrete samples for VOCs, TPH g/d/mo. Perform silica gel treatment prior to analysis.</u>
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Sample/Records - Archival & Disposal
Unless otherwise requested by client, all Samples and Hardcopy will be disposed Forty-five(45) days after generation of report - electronic copies retained for five(5) years.
Storage Fees (applies when storage is requested):
■ Sample : Forty-five(45) Days Complimentary - \$2.00 / sample / mo thereafter.
Hardcopy Reports \$17.50 per report.

CIRCLE or Write IN Analyses Needed	CIRCLE APPROPRIATE MATRIX	PRESERVATION
8260-824 (Volatiles) 80118B (GRO) 8260-824 TO-15 / TO-14 / TO-3 / RSK-175 8270B-625(BVA) / 8310(PAHs) 8081 (DRO) 8260-824 8082 PCBs 6010B-200.7 CAM Metals / 8260-824 8010B-200.7 Metals 6020B-200.8-1640 Metals 7199-218.6 (Hex, Chromium) 300 (Arioxes) / 1314 (Perchlorate)	SOIL/SEDIMENT/SLUDGE SOLIDS/WIPES/FILTERS WATER-DRINKING/GROUND WATER-STORMWASTE AQUEOUS/LAYERED OIL	RTNE <input type="checkbox"/> CT <input type="checkbox"/> Legal <input type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____ REMARKS _____

ITEM	BUSINESS HOURS 8:30 am to 5:30 pm	Sample Description			Analyses										Container(s)		PRESERVATION	REMARKS								
		Lab No.	Sample I.D. / Location	Date	Time	8260-824	80118B	TO-15	8270B-625	8081	8082	6010B-200.7	8010B-200.7	6020B-200.8	7199-218.6	300			SOIL/SEDIMENT/SLUDGE	SOLIDS/WIPES/FILTERS	WATER-DRINKING/GROUND	WATER-STORMWASTE	AQUEOUS/LAYERED OIL	TAT #	Type	
1	1301538-10	CP1-0-1	5/23/13	0745	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Edway 1	5	1	} Composite 1	
2	-11	CP2-0-1		0828																						
3	-12	CP3-0-1		0810																						
4	-13	CP4-0-1		0755																						
5	-14	CP1-1-2		0750																						
6	-15	CP2-1-2		0825																						
7	-16	CP3-1-2		0815																						
8	-17	CP4-1-2		0800																						
9	-18	CP2-GW		1030													X					7 3/2	1		6 HCl VOCs	
10																										

<input type="checkbox"/> Samples Submitted AFTER 3:30 PM, are considered received the following business day at 8:30 AM.	Weekend, Holiday, Off Hours Work ASK for QUOTE	Container Types: 1=Tube 2=VOA 3=Liter 4=Pint 5=Jar 6=Tedlar 7= Canister	Material: 1=Glass 2=Plastic 3=Metal	Preservatives: 1=HCl, 2=HNO ₃ 3=H ₂ SO ₄ 4=4°C 5=Zn(Ac) ₂ 6=NaOH 7=Na ₂ S ₂ O ₄
TAT 0 300% SURCHARGE SAME BUSINESS DAY IF RCVD BY 9:00 AM	TAT 1 100% SURCHARGE NEXT BUSINESS DAY 5:30 PM	TAT 2 50% SURCHARGE 2ND BUSINESS DAY 5:30 PM	TAT 3 30% SURCHARGE 3RD BUSINESS DAY 5:30 PM	TAT 4 20% SURCHARGE 4TH BUSINESS DAY 5:30 PM
TAT 5 NO SURCHARGE 5-7 BUSINESS DAYS 5:30 PM	TAT 10 10% DISCOUNT 10th BUSINESS DAY 5:30 PM	For RUSH TCLP/STLC, add 2 days to respective TAT. Subcon. TAT is 10-15 business days, Dioxin and Furans 21 business days.		

CHAIN OF CUSTODY RECORD

 ADVANCED TECHNOLOGY LABORATORIES 3275 Walnut Ave., Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040	P.O.#: _____ Quote #: _____	FOR LABORATORY USE ONLY:		
	As the authorized agent of the below named company, I hereby purchase testing services from ATL as dictated below and guarantee payment in full.		Method of Transport <input type="checkbox"/> Client <input type="checkbox"/> ATL <input type="checkbox"/> FedEx <input type="checkbox"/> OnTrac <input type="checkbox"/> GSO <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
	Submitter (Print): <u>Sarah Price</u> Signature: <u>Sarah Price</u>			

Submitter - Please complete all SHADED areas and include QUOTE # above to ensure proper invoicing.

Client: <u>Ninyo + Moore</u>	Address: <u>1906 Webster St</u>	TEL: <u>510-343-3000</u>
Attn: <u>Peter Sims</u>	City: <u>Oakland</u> State: <u>CA</u> Zip Code: <u>94612</u>	FAX: <u>510-343-3001</u>

Project Name: <u>Kent Ave</u>	Project #: <u>402090002</u>	Sampler: <u>Sarah Price</u> (Printed Name)	Signature: <u>Sarah Price</u>
Relinquished by: (Signature and Printed Name) <u>Sarah Price</u>	Date: <u>5/23/13</u> Time: <u>1600</u>	Received by: (Signature and Printed Name) <u>Jeff Siegfried</u>	Date: <u>5/23/13</u> Time: <u>4:00 pm</u>
Relinquished by: (Signature and Printed Name) <u>Jeff Siegfried</u>	Date: <u>5/23/13</u> Time: <u>4:48 pm</u>	Received by: (Signature and Printed Name) <u>GSO</u>	Date: <u>5/23/13</u> Time: <u>4:48 pm</u>
Relinquished by: (Signature and Printed Name) _____	Date: _____ Time: _____	Received by: (Signature and Printed Name) <u>C. Dwyer</u>	Date: <u>5/24/13</u> Time: <u>8:00</u>

Bill To: Attn: <u>Peter Sims</u> E-mail: <u>psims@ninyoandmoore.com</u>	Send Report To: Attn: <u>Peter Sims</u> E-mail: _____	Special Instructions/Comments: <u>Place samples on HOLD pending further instruction</u>
Company: <u>N+M</u>	Company: <u>same</u>	
Address: <u>1906 Webster St</u>	Address: _____	
City: <u>Oakland</u> State: <u>CA</u> Zip: <u>94612</u>	City: _____ State: _____ Zip: _____	

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all Samples and Hardcopy will be disposed Forty-five(45) days after generation of report - electronic copies retained for five(5) years.
Storage Fees (applies when storage is requested):
 ■ Sample : Forty-five(45) Days Complimentary - \$2.00 / sample / mo thereafter.
Hardcopy Reports \$17.50 per report.


CIRCLE or Write IN Analyses Needed 8200-624 (Volatiles) 8015B (GRO) / 8021 (BTEX) TO-15 / TO-14 / TO-3 / RSK-175 8270B-623(BNA) / 8310 (PAHs) 8015B(DRO) / 8015B(HCID) 8082 PCBs 6010B-200.7 CAM Metals 6010B-200.7 Metals 6020B-200.8-1640 Metals 7199-218.6 (Hex Chromium) 300(Amoms) / 314 (Perchlorate) Lead	CIRCLE APPROPRIATE MATRIX SOIL/SEDIMENT/SLUDGE SOLIDS WIPES/FILTERS WATER-DRINKING/GROUND WATER-STORMWASTE AQUEOUS/LAYERED OIL	Q A / Q C RTNE <input type="checkbox"/> CT <input type="checkbox"/> Legal <input type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____ REMARKS _____
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ITEM	BUSINESS HOURS 8:30 am to 5:30 pm	Sample Description		
		Lab No.	Sample I.D. / Location	Date Time
1	1301538-29	G1-1-2	Composite D	5/23/13 0912
2	-30	G2-1-2		0902
3	-31	G3-1-2		0845
4	-32	G4-1-2	Composite E	1255
5	-33	G5-1-2		1152
6	-34	G6-1-2		1206
7	-35	G7-1-2	Composite F	1227
8	-36	G8-1-2		1217
9	-37	G9-1-2		1212
10	-38	L11-1-2		1207

<input type="checkbox"/> Samples Submitted AFTER 3:30 PM, are considered received the following business day at 8:30 AM.	Weekend, Holiday, Off Hours Work ASK for QUOTE	Container Types: 1=Tube 2=VOA 3=Liter 4=Pint 5=Jar 6=Tedlar 7= Canister	Material: 1=Glass 2=Plastic 3=Metal	Preservatives: 1=HCl, 2=HNO3, 3=H2SO4, 4=4°C, 5=Zn(Ac)2, 6=NaOH, 7=Na2S2O4 For RUSH TCLP/STLC, add 2 days to respective TAT. Subcon. TAT is 10-15 business days, Dioxin and Furans 21 business days.		
TAT 0 300% SURCHARGE SAME BUSINESS DAY IF RCVD BY 9:00 AM	TAT 1 100% SURCHARGE NEXT BUSINESS DAY 5:30 PM	TAT 2 50% SURCHARGE 2ND BUSINESS DAY 5:30 PM	TAT 3 30% SURCHARGE 3RD BUSINESS DAY 5:30 PM	TAT 4 20% SURCHARGE 4TH BUSINESS DAY 5:30 PM	TAT 5 NO SURCHARGE 5-7 BUSINESS DAYS 5:30 PM	TAT 10 10% DISCOUNT 10th BUSINESS DAY 5:30 PM

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CHAIN OF CUSTODY RECORD

 <p>ADVANCED TECHNOLOGY LABORATORIES 3275 Walnut Ave., Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>	P.O.#: _____ Quote #: _____	FOR LABORATORY USE ONLY:		
	As the authorized agent of the below named company, I hereby purchase testing services from ATL as dictated below and guarantee payment in full.		Method of Transport <input type="checkbox"/> Client <input type="checkbox"/> ATL <input type="checkbox"/> FedEx <input type="checkbox"/> OnTrac <input type="checkbox"/> GSO <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
	Submitter (Print): <u>Sarah Price</u> Signature: <u>Sarah Price</u>			

Submitter - Please complete all SHADED areas and include QUOTE # above to ensure proper invoicing.

Client: <u>Ninyo + Moore</u>	Address: <u>956 Webster St</u>	TEL: <u>510-343-3000</u>
Attn: <u>Peter Sims</u>	City: <u>Oakland</u> State: <u>CA</u> Zip Code: <u>94612</u>	FAX: <u>510-343-3001</u>

Project Name: <u>Kent Ave</u>	Project #: <u>402090002</u>	Sampler: <u>Sarah Price</u> (Printed Name)	Signature: <u>Sarah Price</u> (Signature)
Relinquished by: <u>Sarah Price</u> (Signature and Printed Name)	Date: <u>5/23/13</u>	Time: <u>1600</u>	Received by: <u>Jeff Siegfried</u> (Signature and Printed Name)
Relinquished by: <u>Jeff Siegfried</u> (Signature and Printed Name)	Date: <u>5/23/13</u>	Time: <u>448r</u>	Received by: <u>GSO</u> (Signature and Printed Name)
Relinquished by: _____ (Signature and Printed Name)	Date: _____	Time: _____	Received by: <u>U. Singh</u> (Signature and Printed Name)

Bill To: Attn: <u>Peter Sims</u> E-mail: <u>psims@ninyoandmoore.com</u> Company: <u>NM</u> Address: <u>956 Webster St</u> City: <u>Oakland</u> State: <u>CA</u> Zip: <u>94612</u>	Send Report To: Attn: <u>Peter Sims</u> E-mail: _____ Company: <u>same</u> Address: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: <u>Lead (6010B)</u>
---	---	---

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all Samples and Hardcopy will be disposed Forty-five(45) days after generation of report - electronic copies retained for five(5) years.
Storage Fees (applies when storage is requested):
■ Sample : Forty-five(45) Days Complimentary - \$2.00 / sample / mo thereafter.
Hardcopy Reports \$17.50 per report.


CIRCLE or Write IN Analyses Needed 8260-824 (Volatiles) 8015B (GRO) / 8021 (BTEX) TO-15 / TO-14 / TO-3 / RSK-175 8270B-823 (BVA) / 8310 (PAHs) 8015B (DRO) / 8015B (HClD) 8081 (OrgCl) / 8141 (OrgPO4 Pest) 6010B-200.7 (CAM Metals) 6020B-200.7 (Metals) 7199-218.6 (Flex. Chromium) 300 (Anions) / 314 (Perchlorate) Lead (6010B)	CIRCLE APPROPRIATE MATRIX SOIL/SEDIMENT/SLUDGE SOLIDS/WIPES/FILTERS WATER-DRINKING/GROUND WATER-STORM/WASTE AQUEOUS/LAYERED OIL	PRESERVATION RTNE <input type="checkbox"/> CT <input type="checkbox"/> Legal <input type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____ REMARKS _____
--	--	---

ITEM	BUSINESS HOURS 8:30 am to 5:30 pm	Sample Description		
		Lab No.	Sample I.D. / Location	Date Time
1		1301538-39	L1-0-1	5/23/13 0915
2		-40	L2-0-1	0909
3		-41	L3-0-1	0850
4		-42	L4-0-1	0630
5		-43	L5-0-1	1125
6		-44	L6-0-1	1140
7		-45	L7-0-1	1155
8		-46	L8-0-1	1240
9		-47	L9-0-1	1230
10		-48	L10-0-1	1220

<input type="checkbox"/> Samples Submitted AFTER 3:30 PM, are considered received the following business day at 8:30 AM.	Weekend, Holiday, Off Hours Work ASK for QUOTE	Container Types: 1=Tube 2=VOA 3=Liter 4=Pint 5=Jar 6=Tedlar 7=Canister	Material: 1=Glass 2=Plastic 3=Metal	Preservatives: 1=HCl 2=HNO3 3=H2SO4 4=4°C 5=Zn(Ac)2 6=NaOH 7=NA2S2O4
TAT 0 300% SURCHARGE SAME BUSINESS DAY IF RCVD BY 9:00 AM	TAT 1 100% SURCHARGE NEXT BUSINESS DAY 5:30 PM	TAT 2 50% SURCHARGE 2ND BUSINESS DAY 5:30 PM	TAT 3 30% SURCHARGE 3RD BUSINESS DAY 5:30 PM	TAT 4 20% SURCHARGE 4TH BUSINESS DAY 5:30 PM
TAT 5 NO SURCHARGE 5-7 BUSINESS DAYS 5:30 PM	TAT 10 10% DISCOUNT 10th BUSINESS DAY 5:30 PM	For RUSH TCLP/STLC, add 2 days to respective TAT. Subcon. TAT is 10-15 business days, Dioxin and Furans 21 business days.		

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CHAIN OF CUSTODY RECORD

 <p>ADVANCED TECHNOLOGY LABORATORIES</p> <p>3275 Walnut Ave., Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>	P.O.#: _____ Quote #: _____	FOR LABORATORY USE ONLY:		
	As the authorized agent of the below named company, I hereby purchase testing services from ATL as dictated below and guarantee payment in full.	Method of Transport <input type="checkbox"/> Client <input type="checkbox"/> ATL <input type="checkbox"/> FedEx <input type="checkbox"/> OnTrac <input type="checkbox"/> GSO <input type="checkbox"/> Other: _____		Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
	Submitter (Print): <u>Sarah Price</u> Signature: <u>Sarah Price</u>			

Submitter - Please complete all SHADED areas and include QUOTE # above to ensure proper invoicing.

Client: <u>Ninyo + Moore</u>	Address: <u>1936 Webster St Ste 400</u>	TEL: <u>510-343-3000</u>
Attn: <u>Peter Sims</u>	City: <u>Oakland</u> State: <u>CA</u> Zip Code: <u>94612</u>	FAX: <u>510-343-3001</u>

Project Name: <u>Kent Ave</u>	Project #: <u>402090002</u>	Sampler: (Printed Name) <u>Sarah Price</u> (Signature) <u>Sarah Price</u>	
Relinquished by: (Signature and Printed Name) <u>Sarah Price</u>	Date: <u>5/23/13</u> Time: <u>1600</u>	Received by: (Signature and Printed Name) <u>Jeff Siefert</u>	Date: <u>5/23/13</u> Time: <u>4:00pm</u>
Relinquished by: (Signature and Printed Name) <u>Jeff Siefert</u>	Date: <u>5/23/13</u> Time: <u>4:48p</u>	Received by: (Signature and Printed Name) <u>GSO</u>	Date: <u>5/23/13</u> Time: <u>4:48p</u>
Relinquished by: (Signature and Printed Name) _____	Date: _____ Time: _____	Received by: (Signature and Printed Name) <u>C. Payne</u>	Date: <u>5/23/13</u> Time: <u>8:30</u>

Bill To: Attn: <u>Peter Sims</u> E-mail: <u>psims@ninyoandmoore.com</u> Company: <u>NM</u> Address: <u>1936 Webster Street</u> City: <u>Oakland</u> State: <u>CA</u> Zip: <u>94612</u>	Send Report To: Attn: <u>Peter Sims</u> E-mail: _____ Company: <u>same</u> Address: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: <u>Place samples on HOLD pending further instruction</u>
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 ■ Sample : Forty-five(45) Days Complimentary - \$2.00 / sample / mo thereafter.
Hardcopy Reports \$17.50 per report.

CIRCLE or Write IN Analyses Needed	CIRCLE APPROPRIATE MATRIX	Q A / Q C
8260-924 (Volatiles) 8015B (GRO) / 8021 (BTEX) TO-15 / TO-14 / TO-3 / RSK-775 8015B(DRO) / 8015B(HCLD) 8081 (OrgCl) / 8141 (OrgPO4 Pest) 6010B-200.7 CAM Metals 6020B-200.7 Metals 7199-218.6 (Hex. Chromium) 300 (Anions) / 314 (Perchlorate) Lead (6010B)	SOILS/SEDIMENT/SLUDGE SOLIDS/WIPES/FILTERS WATER-DRINKING/GROUND WATER-STORMWASTE AQUEOUS/LAYERED-OIL	PRESERVATION RTNE <input type="checkbox"/> CT <input type="checkbox"/> Legal <input type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____ REMARKS

ITEM	BUSINESS HOURS 8:30 am to 5:30 pm	Sample Description		
		Lab No.	Sample I.D. / Location	Date Time
1	1301538 - 49	L1-1-2	5/23/13	0914
2	- 50	L2-1-2		0907
3	- 51	L3-1-2		0855
4	- 52	L4-1-2		0835
5	- 53	L5-1-2		1135
6	- 54	L6-1-2		1145
7	- 55	L7-1-2		1157
8	- 56	L8-1-2		1245
9	- 57	L9-1-2		1235
10	- 58	L10-1-2		1222

<input type="checkbox"/> Samples Submitted AFTER 3:30 PM, are considered received the following business day at 8:30 AM.	Weekend, Holiday, Off Hours Work ASK for QUOTE	Container Types: 1=Tube 2=VOA 3=Liter 4=PinT 5=Jar 6=Tedlar 7= Canister	Material: 1=Glass 2=Plastic 3=Metal	Preservatives: 1=HCl 2=HNO3 3=H2SO4 4=4°C 5=Zn(Ac)2 6=NaOH 7=NA2S2O4
TAT 0 300% SURCHARGE SAME BUSINESS DAY IF RCVD BY 9:00 AM	TAT 1 100% SURCHARGE NEXT BUSINESS DAY 5:30 PM	TAT 2 50% SURCHARGE 2ND BUSINESS DAY 5:30 PM	TAT 3 30% SURCHARGE 3RD BUSINESS DAY 5:30 PM	TAT 4 20% SURCHARGE 4TH BUSINESS DAY 5:30 PM
TAT 5 NO SURCHARGE 5-7 BUSINESS DAYS 5:30 PM	TAT 10 10% DISCOUNT 10th BUSINESS DAY 5:30 PM	For RUSH TCLP/STLC, add 2 days to respective TAT. Subcon. TAT is 10-15 business days, Dioxin and Furans 21 business days.		

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Rachelle Arada

From: Peter Sims [psims@ninyoandmoore.com]
Sent: Tuesday, May 28, 2013 3:14 PM
To: Rachelle Arada
Subject: 402090002 Kent Ave

Hi Rachelle,

Please analyze soil samples CP1-0-1, CP2-0-1, CP3-0-1, and CP4-0-1 for PCBs by EPA Method 8082 and PAHs by EPA Method 8270-SIM.

Thanks,

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x5216 (Office)
(510) 327-9335 (Cell Phone)
(510) 343-3001 (Fax)
psims@ninyoandmoore.com

New San Jose office
2149 O'Toole Avenue, Suite 10
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

Experience · Quality · Commitment

June 14, 2013

Peter Sims
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
Tel: (510) 633-5640
Fax:(510) 633-5646



Re: ATL Work Order Number : 1301538
Client Reference : Kent Ave, 402090002

Enclosed are the results for sample(s) received on May 24, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/14/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L10-1-2	1301538-58	Soil	5/23/13 12:22	5/24/13 8:30



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 06/14/2013

Client Sample ID L10-1-2
Lab ID: 1301538-58

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	13	1.0	NA	1	B3F0270	06/13/2013	06/13/13 15:46	

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3F0270 - EPA 3050B

Blank (B3F0270-BLK1)

Prepared: 6/13/2013 Analyzed: 6/13/2013

Lead	ND	1.0							
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NR

LCS (B3F0270-BS1)

Prepared: 6/13/2013 Analyzed: 6/13/2013

Lead	47.0102	1.0	50.0000		94.0	80 - 120			
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Matrix Spike (B3F0270-MS1)

Source: 1301538-58

Prepared: 6/13/2013 Analyzed: 6/13/2013

Lead	101.414	1.0	125.000	12.8533	70.8	51 - 106			
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Matrix Spike Dup (B3F0270-MSD1)

Source: 1301538-58

Prepared: 6/13/2013 Analyzed: 6/13/2013

Lead	107.922	1.0	124.378	12.8533	76.4	51 - 106	6.22	20	
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Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 06/14/2013

Notes and Definitions

ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

Rachelle Arada

From: Peter Sims [psims@ninyoandmoore.com]
Sent: Thursday, June 13, 2013 10:15 AM
To: Rachelle Arada
Subject: RE: Final report - Kent Ave, 402090002 (ATL# 1301538)

Hi Rachelle,

Please analyze sample L10-1-2 for lead by EPA 6010B on rush TAT (50% surcharge).

Thank you,

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore

Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x15216 (Office)
(510) 327-9335 (Cell Phone)
(510) 343-3001 (Fax)
psims@ninyoandmoore.com

New San Jose office
2149 O'Toole Avenue, Suite 10
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

Experience · Quality · Commitment

-----Original Message-----

From: Rachelle Arada [<mailto:Rachelle@atlglobal.com>]
Sent: Tuesday, June 04, 2013 1:44 PM
To: Peter Sims
Subject: Final report - Kent Ave, 402090002 (ATL# 1301538)

Hi Peter,

Attached are the results for the above project.

Rachelle Arada
Project Manager



Advanced Technology Laboratories
www.atlglobal.com
Tel: (562) 989-4045 ext. 237
Fax: (562) 989-4040

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*

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June 25, 2013

Peter Sims
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
Tel: (510) 633-5640
Fax: (510) 633-5646



Re: ATL Work Order Number : 1301806
Client Reference : Ashland Housing Project, 402090002

Enclosed are the results for sample(s) received on June 18, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 06/25/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L12-0-1	1301806-01	Soil	6/17/13 7:30	6/18/13 9:25
L13-0-1	1301806-03	Soil	6/17/13 7:55	6/18/13 9:25
L14-0-1	1301806-05	Soil	6/17/13 8:20	6/18/13 9:25



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 06/25/2013

Client Sample ID L12-0-1

Lab ID: 1301806-01

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	34	1.0	NA	1	B3F0471	06/24/2013	06/24/13 14:25	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 06/25/2013

Client Sample ID L13-0-1

Lab ID: 1301806-03

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	100	1.0	NA	1	B3F0471	06/24/2013	06/24/13 15:36	



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002
 Report To : Peter Sims
 Reported : 06/25/2013

Client Sample ID L14-0-1

Lab ID: 1301806-05

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	12	1.0	NA	1	B3F0471	06/24/2013	06/24/13 15:46	

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3F0471 - EPA 3050B

Blank (B3F0471-BLK1)

Prepared: 6/24/2013 Analyzed: 6/24/2013

Lead	ND	1.0			NR
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LCS (B3F0471-BS1)

Prepared: 6/24/2013 Analyzed: 6/24/2013

Lead	45.7341	1.0	50.0000	91.5	80 - 120
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Matrix Spike (B3F0471-MS1)

Source: 1301806-01

Prepared: 6/24/2013 Analyzed: 6/24/2013

Lead	135.778	1.0	125.628	33.9971	81.0	51 - 106
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Matrix Spike Dup (B3F0471-MSD1)

Source: 1301806-01

Prepared: 6/24/2013 Analyzed: 6/24/2013

Lead	139.737	1.0	125.000	33.9971	84.6	51 - 106	2.87	20
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Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 06/25/2013

Notes and Definitions

ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

June 27, 2013

Peter Sims
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
Tel: (510) 633-5640
Fax:(510) 633-5646

ACCREDITED IN ACCORDANCE WITH
nelac
ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No.: T104704502

Re: ATL Work Order Number : 1301806
Client Reference : Ashland Housing Project, 402090002

Enclosed are the results for sample(s) received on June 18, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 06/27/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L13-1-2	1301806-04	Soil	6/17/13 8:10	6/18/13 9:25



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002
 Report To : Peter Sims
 Reported : 06/27/2013

Client Sample ID L13-1-2
Lab ID: 1301806-04

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	18	1.0	NA	1	B3F0544	06/26/2013	06/27/13 09:43	

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B3F0544 - EPA 3050B

Blank (B3F0544-BLK1)				Prepared: 6/26/2013 Analyzed: 6/27/2013					
Lead	ND	1.0			NR				
LCS (B3F0544-BS1)				Prepared: 6/26/2013 Analyzed: 6/27/2013					
Lead	50.4785	1.0	50.0000		101	80 - 120			
Duplicate (B3F0544-DUP1)				Source: 1301813-05 Prepared: 6/26/2013 Analyzed: 6/27/2013					
Lead	94.1304	1.0		95.6200	NR		1.57	20	
Matrix Spike (B3F0544-MS1)				Source: 1301813-05 Prepared: 6/26/2013 Analyzed: 6/27/2013					
Lead	187.116	1.0	125.000	95.6200	73.2	51 - 106			
Matrix Spike Dup (B3F0544-MSD1)				Source: 1301813-05 Prepared: 6/26/2013 Analyzed: 6/27/2013					
Lead	208.189	1.0	125.000	95.6200	90.1	51 - 106	10.7	20	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 06/27/2013

Notes and Definitions

ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

- Notes:
- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
 - (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

Rachelle Arada

From: Peter Sims [psims@ninyoandmoore.com]
Sent: Wednesday, June 26, 2013 9:46 AM
To: Rachelle Arada
Subject: RE: Results - Ashland Housing Project, 402090002 (ATL# 1301806)

Please analyze sample L13-1-2 for lead on >24 and <48 hour TAT.

Thank you,

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x15216 (Office)
(510) 327-9335 (Cell Phone)
(510) 343-3001 (Fax)
psims@ninyoandmoore.com

New San Jose office
2149 O'Toole Avenue, Suite 10
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

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-----Original Message-----

From: Rachelle Arada [<mailto:Rachelle@atlglobal.com>]
Sent: Tuesday, June 25, 2013 2:53 PM
To: Peter Sims
Subject: Results - Ashland Housing Project, 402090002 (ATL# 1301806)

Hi Peter,

Attached are the results for the above project.

Rachelle Arada
Project Manager



Advanced Technology Laboratories
www.atlglobal.com
Tel: (562) 989-4045 ext. 237
Fax: (562) 989-4040

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*

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August 12, 2013

Peter Sims
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
Tel: (510) 633-5640
Fax: (510) 633-5646



Re: ATL Work Order Number : 1301538
Client Reference : Kent Ave, 402090002

Enclosed are the results for sample(s) received on May 24, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 08/12/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP3-0-1	1301538-12	Soil	5/23/13 8:10	5/24/13 8:30



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 08/12/2013

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

Rachelle Arada

From: Peter Sims [psims@ninyoandmoore.com]
Sent: Monday, August 05, 2013 9:08 AM
To: Rachelle Arada
Subject: RE: ATL projects 1301538 and 1301806

Hi Rachelle,

Please analyze sample CP3-0-1 for lead.

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x15216 (Office)
(510) 327-9335 (Cell Phone)
(510) 343-3001 (Fax)
psims@ninyoandmoore.com

New San Jose office
2149 O'Toole Avenue, Suite 10
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

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-----Original Message-----

From: Rachelle Arada [<mailto:Rachelle@atglobal.com>]
Sent: Friday, July 12, 2013 10:10 AM
To: Peter Sims
Cc: customer.relations@atglobal.com
Subject: RE: ATL projects 1301538 and 1301806

Hi Peter,

We are still within hold time for metals (HT is 6 months) analysis except Mercury (HT is 28 days).

Rachelle

From: Peter Sims [<mailto:psims@ninyoandmoore.com>]
Sent: Friday, July 12, 2013 9:57 AM
To: Rachelle Arada
Subject: ATL projects 1301538 and 1301806

Hi Rachelle,

Are you still holding the samples from this project? We may want to run some additional metals analyses on them.

Thanks,

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore

August 16, 2013

Peter Sims
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
Tel: (510) 633-5640
Fax: (510) 633-5646



Re: ATL Work Order Number : 1301538
Client Reference : Kent Ave, 402090002

Enclosed are the results for sample(s) received on May 24, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



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Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 08/16/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP3-0-1	1301538-12	Soil	5/23/13 8:10	5/24/13 8:30



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 08/16/2013

Client Sample ID CP3-0-1

Lab ID: 1301538-12

STLC Metals by ICP-AES by EPA 6010B

Analyst: AG

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	8.0	1.0	NA	20	B3H0306	08/15/2013	08/16/13 10:35	

QUALITY CONTROL SECTION

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3H0306 - STLC Extraction

Blank (B3H0306-BLK1)				Prepared: 8/15/2013 Analyzed: 8/16/2013					
Lead	ND	1.0			NR				
LCS (B3H0306-BS1)				Prepared: 8/15/2013 Analyzed: 8/16/2013					
Lead	1.91572	1.0	2.00000		95.8	80 - 120			
Matrix Spike (B3H0306-MS1)				Prepared: 8/15/2013 Analyzed: 8/16/2013					
Lead	9.86294	1.0	2.50000	7.96002	76.1	33 - 131			
Matrix Spike Dup (B3H0306-MSD1)				Prepared: 8/15/2013 Analyzed: 8/16/2013					
Lead	9.87073	1.0	2.50000	7.96002	76.4	33 - 131	0.0789	20	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 08/16/2013

Notes and Definitions

ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

Rachelle Arada

From: Peter Sims [psims@ninyoandmoore.com]
Sent: Tuesday, August 13, 2013 10:57 AM
To: Rachelle Arada
Subject: RE: Add'l results - Kent Ave, 402090002 (ATL# 1301538)

Please analyze sample CP3-0-1 for STLC lead on >36 hour and <48 hour TAT.

Thank you,

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x15216 (Office)
(510) 327-9335 (Cell Phone)
(510) 343-3001 (Fax)
psims@ninyoandmoore.com

New San Jose office
2149 O'Toole Avenue, Suite 10
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

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-----Original Message-----

From: Rachelle Arada [<mailto:Rachelle@atlglobal.com>]
Sent: Monday, August 12, 2013 3:41 PM
To: Peter Sims
Subject: Add'l results - Kent Ave, 402090002 (ATL# 1301538)

Hi Peter,

Attached are the results for the above project.

Rachelle Arada
Project Manager



Advanced Technology Laboratories

www.atlglobal.com
Tel: (562) 989-4045 ext. 237
Fax: (562) 989-4040

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*

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August 21, 2013

Peter Sims
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
Tel: (510) 633-5640
Fax:(510) 633-5646



Re: ATL Work Order Number : 1301538
Client Reference : Kent Ave, 402090002

Enclosed are the results for sample(s) received on May 24, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 08/21/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP3-0-1	1301538-12	Soil	5/23/13 8:10	5/24/13 8:30



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 08/21/2013

Client Sample ID CP3-0-1
Lab ID: 1301538-12

TCLP Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.050	NA	1	B3H0352	08/20/2013	08/20/13 11:03	

QUALITY CONTROL SECTION

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	---------------	------------	-------------	---------------	-------	--------------	-----	-----------	-------

Batch B3H0352 - EPA 3010A_SOIL

Blank (B3H0352-BLK1)				Prepared: 8/20/2013 Analyzed: 8/20/2013					
Lead	ND	0.050					NR		
Blank (B3H0352-BLK2)				Prepared: 8/20/2013 Analyzed: 8/20/2013					
Lead	ND	0.050					NR		
Blank (B3H0352-BLK3)				Prepared: 8/20/2013 Analyzed: 8/20/2013					
Lead	ND	0.050					NR		
LCS (B3H0352-BS1)				Prepared: 8/20/2013 Analyzed: 8/20/2013					
Lead	1.09036	0.050	1.00000		109	80 - 120			
Duplicate (B3H0352-DUP1)				Source: 1301538-12 Prepared: 8/20/2013 Analyzed: 8/20/2013					
Lead	0.028808	0.050		0.025672	NR		11.5	20	
Matrix Spike (B3H0352-MS1)				Source: 1301538-12 Prepared: 8/20/2013 Analyzed: 8/20/2013					
Lead	2.27312	0.050	2.50000	0.025672	89.9	76 - 109			
Matrix Spike Dup (B3H0352-MSD1)				Source: 1301538-12 Prepared: 8/20/2013 Analyzed: 8/20/2013					
Lead	2.29774	0.050	2.50000	0.025672	90.9	76 - 109	1.08	20	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 08/21/2013

Notes and Definitions

ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

- Notes:
- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
 - (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

Rachelle Arada

From: Peter Sims [psims@ninyoandmoore.com]
Sent: Monday, August 19, 2013 9:54 AM
To: Rachelle Arada
Subject: RE: Add'l results - Kent Ave, 402090002 (ATL# 1301538)

Hi Rachelle,

Please analyze this sample for lead by TCLP on rush TAT.

Thanks,

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x15216 (Office)
(510) 327-9335 (Cell Phone)
(510) 343-3001 (Fax)
psims@ninyoandmoore.com

New San Jose office
2149 O'Toole Avenue, Suite 10
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

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-----Original Message-----

From: Rachelle Arada [<mailto:Rachelle@atlglobal.com>]
Sent: Friday, August 16, 2013 11:53 AM
To: Peter Sims
Subject: Add'l results - Kent Ave, 402090002 (ATL# 1301538)

Hi Peter,

Attached are the results for the above project.

Rachelle Arada
Project Manager



Advanced Technology Laboratories

www.atlglobal.com
Tel: (562) 989-4045 ext. 237
Fax: (562) 989-4040

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*

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August 20, 2013

Peter Sims
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
Tel: (510) 633-5640
Fax: (510) 633-5646



Re: ATL Work Order Number : 1302196
Client Reference : Ashland, 402090002

Enclosed are the results for sample(s) received on July 25, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L10-N2.5-0-1	1302196-01	Soil	7/23/13 7:35	7/25/13 8:35
L13-N2.5-0-1	1302196-04	Soil	7/23/13 7:50	7/25/13 8:35
L13-N5-0-1	1302196-05	Soil	7/23/13 7:54	7/25/13 8:35
L13-N7.5-0-1	1302196-06	Soil	7/23/13 7:57	7/25/13 8:35
L13-S2.5-0-1	1302196-07	Soil	7/23/13 8:03	7/25/13 8:35
L13-S5-0-1	1302196-08	Soil	7/23/13 8:10	7/25/13 8:35
L13-S7.5-0-1	1302196-09	Soil	7/23/13 8:12	7/25/13 8:35
L13-W2.5-0-1	1302196-10	Soil	7/23/13 8:17	7/25/13 8:35
L13A-0-1	1302196-13	Soil	7/23/13 8:26	7/25/13 8:35
L10A-0-1	1302196-14	Soil	7/23/13 8:30	7/25/13 8:35
CP3-W5-0-1	1302196-19	Soil	7/23/13 9:46	7/25/13 8:35
CP3-W5-1-2	1302196-20	Soil	7/23/13 9:51	7/25/13 8:35
CP3A-2-3	1302196-23	Soil	7/23/13 10:09	7/25/13 8:35
CP3-S5-0-1	1302196-25	Soil	7/23/13 10:25	7/25/13 8:35
CP3-S5-1-2	1302196-26	Soil	7/23/13 10:27	7/25/13 8:35
CP3-E5-0-1	1302196-37	Soil	7/23/13 12:01	7/25/13 8:35
CP3-E5-1-2	1302196-38	Soil	7/23/13 12:05	7/25/13 8:35
CP3-N5-0-1	1302196-49	Soil	7/23/13 13:10	7/25/13 8:35
CP3-N5-1-2	1302196-50	Soil	7/23/13 13:13	7/25/13 8:35



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Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID L10-N2.5-0-1

Lab ID: 1302196-01

Total Metals by ICP-AES EPA 6010B

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	17	1.0	NA	1	B3G0482	07/26/2013	07/26/13 16:26	



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Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID L13-N2.5-0-1

Lab ID: 1302196-04

Total Metals by ICP-AES EPA 6010B

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	8.1	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:02	
Lead	70	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:02	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	270	20	NA	10	B3H0076	08/05/2013	08/05/13 22:13	
ORO	950	20	NA	10	B3H0076	08/05/2013	08/05/13 22:13	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>33 - 147</i>		B3H0076	08/05/2013	<i>08/05/13 22:13</i>	S4



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Project Number : Ashland, 402090002

Report To : Peter Sims

Reported : 08/20/2013

Client Sample ID L13-N5-0-1

Lab ID: 1302196-05

Diesel Range Organics by EPA 8015B

Analyst: MR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	33	4.0	NA	2	B3H0077	08/05/2013	08/05/13 19:40	
ORO	100	4.0	NA	2	B3H0077	08/05/2013	08/05/13 19:40	
<i>Surrogate: p-Terphenyl</i>	<i>78.0 %</i>		<i>33 - 147</i>		B3H0077	08/05/2013	<i>08/05/13 19:40</i>	



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Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID L13-N7.5-0-1

Lab ID: 1302196-06

Diesel Range Organics by EPA 8015B

Analyst: MR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	46	4.0	NA	2	B3H0077	08/05/2013	08/05/13 19:56	
ORO	140	4.0	NA	2	B3H0077	08/05/2013	08/05/13 19:56	
<i>Surrogate: p-Terphenyl</i>	<i>69.5 %</i>		<i>33 - 147</i>		B3H0077	08/05/2013	<i>08/05/13 19:56</i>	



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Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID L13-S2.5-0-1

Lab ID: 1302196-07

Total Metals by ICP-AES EPA 6010B

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	6.9	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:05	
Lead	64	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:05	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	360	20	NA	10	B3H0076	08/05/2013	08/05/13 22:45	
ORO	1200	20	NA	10	B3H0076	08/05/2013	08/05/13 22:45	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>33 - 147</i>		B3H0076	08/05/2013	<i>08/05/13 22:45</i>	<i>S4</i>



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Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID L13-S5-0-1

Lab ID: 1302196-08

Diesel Range Organics by EPA 8015B

Analyst: MR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	1200	1000	NA	100	B3H0077	08/05/2013	08/05/13 17:45	
ORO	4500	1000	NA	100	B3H0077	08/05/2013	08/05/13 17:45	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>33 - 147</i>		B3H0077	08/05/2013	<i>08/05/13 17:45</i>	S4



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Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID L13-S7.5-0-1

Lab ID: 1302196-09

Diesel Range Organics by EPA 8015B

Analyst: MR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	1100	1000	NA	100	B3H0077	08/05/2013	08/05/13 18:01	
ORO	4100	1000	NA	100	B3H0077	08/05/2013	08/05/13 18:01	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>33 - 147</i>		B3H0077	08/05/2013	<i>08/05/13 18:01</i>	S4



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Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID L13-W2.5-0-1

Lab ID: 1302196-10

Total Metals by ICP-AES EPA 6010B

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.2	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:09	
Lead	26	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:09	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	59	1.0	NA	1	B3H0076	08/05/2013	08/05/13 21:57	
ORO	140	1.0	NA	1	B3H0076	08/05/2013	08/05/13 21:57	
<i>Surrogate: p-Terphenyl</i>	67.2 %		33 - 147		B3H0076	08/05/2013	08/05/13 21:57	



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Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 08/20/2013

Client Sample ID L13A-0-1

Lab ID: 1302196-13

Title 22 Metals by ICP-AES EPA 6010B

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B3G0482	07/26/2013	07/26/13 17:13	
Arsenic	18	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:13	
Barium	180	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:12	
Beryllium	ND	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:12	
Cadmium	ND	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:13	
Chromium	32	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:12	
Cobalt	7.6	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:13	
Copper	82	2.0	NA	1	B3G0482	07/26/2013	07/26/13 17:12	
Lead	73	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:13	
Molybdenum	ND	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:13	
Nickel	32	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:13	
Selenium	ND	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:13	
Silver	ND	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:13	
Thallium	ND	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:13	
Vanadium	26	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:12	
Zinc	170	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:12	

STLC Metals by ICP-AES by EPA 6010B

Analyst: AG

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.9	1.0	NA	20	B3H0127	08/07/2013	08/07/13 12:54	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.16	0.10	NA	1	B3G0570	07/31/2013	07/31/13 13:31	

Gasoline Range Organics by EPA 8015B

Analyst: VN

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3G0478	07/26/2013	07/26/13 15:01	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>81.5 %</i>		<i>54 - 150</i>		B3G0478	07/26/2013	<i>07/26/13 15:01</i>	



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Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 08/20/2013

Client Sample ID L13A-0-1
Lab ID: 1302196-13

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	170	20	NA	10	B3H0076	08/05/2013	08/05/13 22:29	
ORO	720	20	NA	10	B3H0076	08/05/2013	08/05/13 22:29	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>33 - 147</i>		B3H0076	08/05/2013	<i>08/05/13 22:29</i>	S4

BTEX/MTBE by EPA 8021

Analyst: VN

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B3G0478	07/26/2013	07/26/13 15:01	
Toluene	ND	5.0	NA	1	B3G0478	07/26/2013	07/26/13 15:01	
Ethylbenzene	ND	5.0	NA	1	B3G0478	07/26/2013	07/26/13 15:01	
m,p-Xylene	ND	10	NA	1	B3G0478	07/26/2013	07/26/13 15:01	
o-Xylene	ND	5.0	NA	1	B3G0478	07/26/2013	07/26/13 15:01	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>80.5 %</i>		<i>53 - 136</i>		B3G0478	07/26/2013	<i>07/26/13 15:01</i>	



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Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 08/20/2013

Client Sample ID L10A-0-1

Lab ID: 1302196-14

Title 22 Metals by ICP-AES EPA 6010B

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B3G0482	07/26/2013	07/26/13 17:16	
Arsenic	6.0	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:16	
Barium	160	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:16	
Beryllium	ND	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:15	
Cadmium	ND	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:16	
Chromium	34	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:16	
Cobalt	8.8	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:16	
Copper	22	2.0	NA	1	B3G0482	07/26/2013	07/26/13 17:16	
Lead	27	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:16	
Molybdenum	ND	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:16	
Nickel	41	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:16	
Selenium	ND	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:16	
Silver	ND	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:16	
Thallium	ND	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:16	
Vanadium	29	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:16	
Zinc	95	1.0	NA	1	B3G0482	07/26/2013	07/26/13 17:16	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B3G0570	07/31/2013	07/31/13 13:43	

Gasoline Range Organics by EPA 8015B

Analyst: VN

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3G0478	07/26/2013	07/26/13 14:40	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.4 %</i>		<i>54 - 150</i>		B3G0478	07/26/2013	<i>07/26/13 14:40</i>	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	25	1.0	NA	1	B3G0490	07/26/2013	07/29/13 21:29	
ORO	43	1.0	NA	1	B3G0490	07/26/2013	07/29/13 21:29	
<i>Surrogate: p-Terphenyl</i>	<i>92.4 %</i>		<i>33 - 147</i>		B3G0490	07/26/2013	<i>07/29/13 21:29</i>	



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Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID L10A-0-1

Lab ID: 1302196-14

BTEX/MTBE by EPA 8021

Analyst: VN

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B3G0478	07/26/2013	07/26/13 14:40	
Toluene	ND	5.0	NA	1	B3G0478	07/26/2013	07/26/13 14:40	
Ethylbenzene	ND	5.0	NA	1	B3G0478	07/26/2013	07/26/13 14:40	
m,p-Xylene	ND	10	NA	1	B3G0478	07/26/2013	07/26/13 14:40	
o-Xylene	ND	5.0	NA	1	B3G0478	07/26/2013	07/26/13 14:40	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.1 %</i>		<i>53 - 136</i>		B3G0478	07/26/2013	<i>07/26/13 14:40</i>	



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Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID CP3-W5-0-1
Lab ID: 1302196-19

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	15	1.0	NA	1	B3H0357	08/20/2013	08/20/13 12:29	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	6.2	1.0	NA	1	B3G0490	07/26/2013	07/29/13 21:12	
ORO	14	1.0	NA	1	B3G0490	07/26/2013	07/29/13 21:12	
<i>Surrogate: p-Terphenyl</i>	<i>90.1 %</i>		<i>33 - 147</i>		B3G0490	07/26/2013	07/29/13 21:12	



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Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID CP3-W5-1-2
Lab ID: 1302196-20

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3.8	1.0	NA	1	B3G0490	07/26/2013	07/29/13 17:02	
ORO	6.5	1.0	NA	1	B3G0490	07/26/2013	07/29/13 17:02	
<i>Surrogate: p-Terphenyl</i>	88.4 %		33 - 147		B3G0490	07/26/2013	07/29/13 17:02	



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Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID CP3A-2-3

Lab ID: 1302196-23

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	2.5	1.0	NA	1	B3G0490	07/26/2013	07/29/13 17:19	
ORO	3.4	1.0	NA	1	B3G0490	07/26/2013	07/29/13 17:19	
<i>Surrogate: p-Terphenyl</i>	86.5 %		33 - 147		B3G0490	07/26/2013	07/29/13 17:19	



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Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID CP3-S5-0-1

Lab ID: 1302196-25

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	8.4	1.0	NA	1	B3H0357	08/20/2013	08/20/13 12:31	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3.4	1.0	NA	1	B3G0490	07/26/2013	07/29/13 20:39	
ORO	6.8	1.0	NA	1	B3G0490	07/26/2013	07/29/13 20:39	
<i>Surrogate: p-Terphenyl</i>	<i>91.2 %</i>		<i>33 - 147</i>		B3G0490	07/26/2013	07/29/13 20:39	



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Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID CP3-S5-1-2

Lab ID: 1302196-26

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	1.6	1.0	NA	1	B3G0490	07/26/2013	07/29/13 17:35	
ORO	2.4	1.0	NA	1	B3G0490	07/26/2013	07/29/13 17:35	
<i>Surrogate: p-Terphenyl</i>	<i>92.0 %</i>		<i>33 - 147</i>		B3G0490	07/26/2013	<i>07/29/13 17:35</i>	



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1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID CP3-E5-0-1

Lab ID: 1302196-37

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	8.1	1.0	NA	1	B3H0357	08/20/2013	08/20/13 12:32	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	1.6	1.0	NA	1	B3G0490	07/26/2013	07/29/13 17:52	
ORO	2.4	1.0	NA	1	B3G0490	07/26/2013	07/29/13 17:52	
<i>Surrogate: p-Terphenyl</i>	<i>81.4 %</i>		<i>33 - 147</i>		B3G0490	07/26/2013	07/29/13 17:52	



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Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID CP3-E5-1-2

Lab ID: 1302196-38

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	2.4	1.0	NA	1	B3G0490	07/26/2013	07/29/13 18:09	
ORO	3.6	1.0	NA	1	B3G0490	07/26/2013	07/29/13 18:09	
<i>Surrogate: p-Terphenyl</i>	<i>99.1 %</i>		<i>33 - 147</i>		B3G0490	07/26/2013	<i>07/29/13 18:09</i>	



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Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID CP3-N5-0-1

Lab ID: 1302196-49

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	10	1.0	NA	1	B3H0357	08/20/2013	08/20/13 12:34	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	2.6	1.0	NA	1	B3G0490	07/26/2013	07/29/13 18:59	
ORO	4.5	1.0	NA	1	B3G0490	07/26/2013	07/29/13 18:59	
Surrogate: <i>p</i> -Terphenyl	111 %		33 - 147		B3G0490	07/26/2013	07/29/13 18:59	



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Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Client Sample ID CP3-N5-1-2

Lab ID: 1302196-50

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	2.3	1.0	NA	1	B3G0490	07/26/2013	07/29/13 18:43	
ORO	3.6	1.0	NA	1	B3G0490	07/26/2013	07/29/13 18:43	
<i>Surrogate: p-Terphenyl</i>	83.9 %		33 - 147		B3G0490	07/26/2013	07/29/13 18:43	



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 Reported : 08/20/2013

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3G0482 - EPA 3050B

Blank (B3G0482-BLK1)

Prepared: 7/26/2013 Analyzed: 7/26/2013

Arsenic	ND	1.0			NR			
Lead	ND	1.0			NR			

LCS (B3G0482-BS1)

Prepared: 7/26/2013 Analyzed: 7/26/2013

Arsenic	47.1869	1.0	50.0000		94.4	80 - 120		
Lead	49.1446	1.0	50.0000		98.3	80 - 120		

Matrix Spike (B3G0482-MS1)

Source: 1302196-01

Prepared: 7/26/2013 Analyzed: 7/26/2013

Arsenic	110.495	1.0	125.000	5.99064	83.6	55 - 102		
Lead	115.546	1.0	125.000	17.1277	78.7	51 - 106		

Matrix Spike Dup (B3G0482-MSD1)

Source: 1302196-01

Prepared: 7/26/2013 Analyzed: 7/26/2013

Arsenic	107.512	1.0	125.000	5.99064	81.2	55 - 102	2.74	20
Lead	115.388	1.0	125.000	17.1277	78.6	51 - 106	0.137	20

Batch B3H0357 - EPA 3050B

Blank (B3H0357-BLK1)

Prepared: 8/20/2013 Analyzed: 8/20/2013

Lead	ND	1.0			NR			
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LCS (B3H0357-BS1)

Prepared: 8/20/2013 Analyzed: 8/20/2013

Lead	49.2017	1.0	50.0000		98.4	80 - 120		
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Matrix Spike (B3H0357-MS1)

Source: 1302196-49

Prepared: 8/20/2013 Analyzed: 8/20/2013

Lead	113.259	1.0	124.378	10.1103	82.9	51 - 106		
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Matrix Spike Dup (B3H0357-MSD1)

Source: 1302196-49

Prepared: 8/20/2013 Analyzed: 8/20/2013

Lead	112.902	1.0	124.378	10.1103	82.6	51 - 106	0.316	20
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Project Number : Ashland, 402090002
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Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3G0482 - EPA 3050B

Blank (B3G0482-BLK1)

Prepared: 7/26/2013 Analyzed: 7/26/2013

Antimony	ND	2.0			NR
Arsenic	ND	1.0			NR
Barium	ND	1.0			NR
Beryllium	ND	1.0			NR
Cadmium	ND	1.0			NR
Chromium	ND	1.0			NR
Cobalt	ND	1.0			NR
Copper	ND	2.0			NR
Lead	ND	1.0			NR
Molybdenum	ND	1.0			NR
Nickel	ND	1.0			NR
Selenium	ND	1.0			NR
Silver	ND	1.0			NR
Thallium	ND	1.0			NR
Vanadium	ND	1.0			NR
Zinc	ND	1.0			NR

LCS (B3G0482-BS1)

Prepared: 7/26/2013 Analyzed: 7/26/2013

Antimony	48.2974	2.0	50.0000		96.6	80 - 120
Arsenic	47.1869	1.0	50.0000		94.4	80 - 120
Barium	49.2141	1.0	50.0000		98.4	80 - 120
Beryllium	52.3058	1.0	50.0000		105	80 - 120
Cadmium	47.4641	1.0	50.0000		94.9	80 - 120
Chromium	50.4811	1.0	50.0000		101	80 - 120
Cobalt	49.7404	1.0	50.0000		99.5	80 - 120
Copper	51.0622	2.0	50.0000		102	80 - 120
Lead	49.1446	1.0	50.0000		98.3	80 - 120
Molybdenum	50.5284	1.0	50.0000		101	80 - 120
Nickel	48.4368	1.0	50.0000		96.9	80 - 120
Selenium	44.1670	1.0	50.0000		88.3	80 - 120
Silver	45.1447	1.0	50.0000		90.3	80 - 120
Thallium	48.5315	1.0	50.0000		97.1	80 - 120
Vanadium	51.7292	1.0	50.0000		103	80 - 120
Zinc	49.3903	1.0	50.0000		98.8	80 - 120

Matrix Spike (B3G0482-MS1)

Source: 1302196-01

Prepared: 7/26/2013 Analyzed: 7/26/2013

Antimony	67.0526	2.0	125.000	ND	53.6	21 - 109
Arsenic	110.495	1.0	125.000	5.99064	83.6	55 - 102
Barium	264.200	1.0	125.000	148.687	92.4	40 - 130
Beryllium	110.677	1.0	125.000	0.113780	88.5	60 - 104
Cadmium	100.706	1.0	125.000	0.596858	80.1	52 - 100
Chromium	147.298	1.0	125.000	33.1080	91.4	53 - 113



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Project Number : Ashland, 402090002
 Report To : Peter Sims
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Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3G0482 - EPA 3050B (continued)

Matrix Spike (B3G0482-MS1) - Continued

Source: 1302196-01

Prepared: 7/26/2013 Analyzed: 7/26/2013

Cobalt	111.926	1.0	125.000	8.59736	82.7	53 - 104		
Copper	135.694	2.0	125.000	20.0465	92.5	51 - 122		
Lead	115.546	1.0	125.000	17.1277	78.7	51 - 106		
Molybdenum	103.147	1.0	125.000	0.351617	82.2	55 - 103		
Nickel	147.639	1.0	125.000	42.0631	84.5	48 - 112		
Selenium	94.5218	1.0	125.000	ND	75.6	53 - 104		
Silver	109.962	1.0	125.000	ND	88.0	61 - 109		
Thallium	98.8709	1.0	125.000	ND	79.1	44 - 103		
Vanadium	142.295	1.0	125.000	28.6692	90.9	55 - 115		
Zinc	151.917	1.0	125.000	57.4628	75.6	24 - 130		

Matrix Spike Dup (B3G0482-MSD1)

Source: 1302196-01

Prepared: 7/26/2013 Analyzed: 7/26/2013

Antimony	69.5882	2.0	125.000	ND	55.7	21 - 109	3.71	20
Arsenic	107.512	1.0	125.000	5.99064	81.2	55 - 102	2.74	20
Barium	255.619	1.0	125.000	148.687	85.5	40 - 130	3.30	20
Beryllium	107.198	1.0	125.000	0.113780	85.7	60 - 104	3.19	20
Cadmium	99.1559	1.0	125.000	0.596858	78.8	52 - 100	1.55	20
Chromium	143.914	1.0	125.000	33.1080	88.6	53 - 113	2.32	20
Cobalt	110.168	1.0	125.000	8.59736	81.3	53 - 104	1.58	20
Copper	133.275	2.0	125.000	20.0465	90.6	51 - 122	1.80	20
Lead	115.388	1.0	125.000	17.1277	78.6	51 - 106	0.137	20
Molybdenum	102.035	1.0	125.000	0.351617	81.3	55 - 103	1.08	20
Nickel	143.273	1.0	125.000	42.0631	81.0	48 - 112	3.00	20
Selenium	91.6934	1.0	125.000	ND	73.4	53 - 104	3.04	20
Silver	107.775	1.0	125.000	ND	86.2	61 - 109	2.01	20
Thallium	95.3173	1.0	125.000	ND	76.3	44 - 103	3.66	20
Vanadium	139.624	1.0	125.000	28.6692	88.8	55 - 115	1.89	20
Zinc	153.624	1.0	125.000	57.4628	76.9	24 - 130	1.12	20



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STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3H0127 - STLC Extraction

Blank (B3H0127-BLK1)

Prepared: 8/7/2013 Analyzed: 8/7/2013

Lead ND 1.0 NR

LCS (B3H0127-BS1)

Prepared: 8/7/2013 Analyzed: 8/7/2013

Lead 1.82763 1.0 2.00000 91.4 80 - 120

Matrix Spike (B3H0127-MS1)

Source: 1302258-08

Prepared: 8/7/2013 Analyzed: 8/7/2013

Lead 3.27924 1.0 2.50000 0.858067 96.8 33 - 131

Matrix Spike Dup (B3H0127-MSD1)

Source: 1302258-08

Prepared: 8/7/2013 Analyzed: 8/7/2013

Lead 3.28592 1.0 2.50000 0.858067 97.1 33 - 131 0.203 20



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Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 08/20/2013

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B3G0570 - EPA 7471									
Blank (B3G0570-BLK1)				Prepared: 7/31/2013 Analyzed: 7/31/2013					
Mercury	ND	0.10			NR				
LCS (B3G0570-BS1)				Prepared: 7/31/2013 Analyzed: 7/31/2013					
Mercury	0.848198	0.10	0.833333		102	80 - 120			
Matrix Spike (B3G0570-MS1)				Prepared: 7/31/2013 Analyzed: 7/31/2013					
Mercury	0.855086	0.10	0.833333	0.157307	83.7	70 - 130			
Matrix Spike Dup (B3G0570-MSD1)				Prepared: 7/31/2013 Analyzed: 7/31/2013					
Mercury	0.911837	0.10	0.833333	0.157307	90.5	70 - 130	6.42	20	
Post Spike (B3G0570-PS1)				Prepared: 7/31/2013 Analyzed: 7/31/2013					
Mercury	0.007328		5.00000E-3	0.001888	109	70 - 130			



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Gasoline Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B3G0478 - GCVOAS									
Blank (B3G0478-BLK1)					Prepared: 7/26/2013 Analyzed: 7/26/2013				
Gasoline Range Organics	ND	1.0			NR				
T/R Hydrocarbons: C4-C12	ND	1.0			NR				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.09930		0.100000		99.3	54 - 150			
LCS (B3G0478-BS1)					Prepared: 7/26/2013 Analyzed: 7/26/2013				
Gasoline Range Organics	4.85600		5.00000		97.1	70 - 130			
T/R Hydrocarbons: C4-C12	4.80100		5.00000		96.0	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.1066		0.100000		107	54 - 150			
LCS Dup (B3G0478-BSD1)					Prepared: 7/26/2013 Analyzed: 7/26/2013				
Gasoline Range Organics	4.70200		5.00000		94.0	70 - 130	3.22	20	
T/R Hydrocarbons: C4-C12	4.68100		5.00000		93.6	70 - 130	2.53	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.1006		0.100000		101	54 - 150			
Matrix Spike (B3G0478-MS1)					Source: 1302198-01		Prepared: 7/26/2013 Analyzed: 7/26/2013		
Gasoline Range Organics	3.54700		5.00000	0.021	70.5	42 - 125			
T/R Hydrocarbons: C4-C12	3.51200		5.00000	0.026	69.7	42 - 125			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.09880		0.100000		98.8	54 - 150			
Matrix Spike Dup (B3G0478-MSD1)					Source: 1302198-01		Prepared: 7/26/2013 Analyzed: 7/26/2013		
Gasoline Range Organics	3.60700		5.00000	0.021	71.7	42 - 125	1.68	20	
T/R Hydrocarbons: C4-C12	3.58800		5.00000	0.026	71.2	42 - 125	2.14	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.1005		0.100000		100	54 - 150			



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Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3G0490 - GCSEMI_DRO_SOIL_LL

Blank (B3G0490-BLK1)

Prepared: 7/26/2013 Analyzed: 7/29/2013

DRO	ND	1.0				NR			
ORO	ND	1.0				NR			
Surrogate: <i>p</i> -Terphenyl	2.763		2.66667		104	33 - 147			



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Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3G0490 - GCSEMI_DRO_SOIL_LL (continued)

LCS (B3G0490-BS1)

Prepared: 7/26/2013 Analyzed: 7/29/2013

DRO	23.0007	1.0	33.3333		69.0	43 - 120			
Surrogate: <i>p</i> -Terphenyl	1.999		2.66667		75.0	33 - 147			



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Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3G0490 - GCSEMI_DRO_SOIL_LL (continued)

Matrix Spike (B3G0490-MS1)

Source: 1302198-01

Prepared: 7/26/2013 Analyzed: 7/29/2013

DRO	16.8673	1.0	33.3333	2.01033	44.6	17 - 112			
Surrogate: <i>p</i> -Terphenyl	3.152		2.66667		118	33 - 147			



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Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3G0490 - GCSEMI_DRO_SOIL_LL (continued)

Matrix Spike Dup (B3G0490-MSD1)

Source: 1302198-01

Prepared: 7/26/2013 Analyzed: 7/29/2013

DRO	18.9210	1.0	33.3333	2.01033	50.7	17 - 112	11.5	20	
<i>Surrogate: p-Terphenyl</i>	3.285		2.66667		123	33 - 147			



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Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3H0077 - GCSEMI_DRO_SOIL_LL

Blank (B3H0077-BLK1)

Prepared: 8/5/2013 Analyzed: 8/5/2013

DRO	ND	1.0				NR			
ORO	ND	1.0				NR			
<i>Surrogate: p-Terphenyl</i>	<i>1.994</i>		<i>2.66667</i>		<i>74.8</i>	<i>33 - 147</i>			



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Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3H0077 - GCSEMI_DRO_SOIL_LL (continued)

LCS (B3H0077-BS1)

Prepared: 8/5/2013 Analyzed: 8/5/2013

DRO	34.0270	1.0	33.3333		102	43 - 120
Surrogate: <i>p</i> -Terphenyl	2.988		2.66667		112	33 - 147



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Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3H0077 - GCSEMI_DRO_SOIL_LL (continued)

Matrix Spike (B3H0077-MS1)

Source: 1302196-05

Prepared: 8/5/2013 Analyzed: 8/5/2013

DRO	67.1520	4.0	33.3333	32.8107	103	17 - 112			
<i>Surrogate: p-Terphenyl</i>	<i>2.013</i>		<i>2.66667</i>		<i>75.5</i>	<i>33 - 147</i>			



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Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3H0077 - GCSEMI_DRO_SOIL_LL (continued)

Matrix Spike Dup (B3H0077-MSD1)

Source: 1302196-05

Prepared: 8/5/2013 Analyzed: 8/5/2013

DRO	65.7160	4.0	33.3333	32.8107	98.7	17 - 112	2.16	20
<i>Surrogate: p-Terphenyl</i>	<i>2.173</i>		<i>2.66667</i>		<i>81.5</i>	<i>33 - 147</i>		



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 08/20/2013

Diesel Range Organics by EPA 8015B (SGT) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3H0076 - GCSEMI_DRO_SOIL_LL

Blank (B3H0076-BLK1)

Prepared: 8/5/2013 Analyzed: 8/5/2013

DRO	ND	1.0				NR			
ORO	ND	1.0				NR			
Surrogate: <i>p</i> -Terphenyl	2.290		2.66667		85.9	33 - 147			



Certificate of Analysis

Ninyo & Moore
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 Oakland, CA 94612

Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 08/20/2013

Diesel Range Organics by EPA 8015B (SGT) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3H0076 - GCSEMI_DRO_SOIL_LL (continued)

LCS (B3H0076-BS1)

Prepared: 8/5/2013 Analyzed: 8/5/2013

DRO	33.3187	1.0	33.3333		100	43 - 120
<i>Surrogate: p-Terphenyl</i>	2.058		2.66667		77.2	33 - 147



Certificate of Analysis

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Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 08/20/2013

Diesel Range Organics by EPA 8015B (SGT) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3H0076 - GCSEMI_DRO_SOIL_LL (continued)

Matrix Spike (B3H0076-MS1)

Source: 1302196-10

Prepared: 8/5/2013 Analyzed: 8/5/2013

DRO	68.5707	1.0	33.3333	59.1737	28.2	17 - 112			
<i>Surrogate: p-Terphenyl</i>	<i>1.752</i>		<i>2.66667</i>		<i>65.7</i>	<i>33 - 147</i>			



Certificate of Analysis

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 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 08/20/2013

Diesel Range Organics by EPA 8015B (SGT) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3H0076 - GCSEMI_DRO_SOIL_LL (continued)

Matrix Spike Dup (B3H0076-MSD1)

Source: 1302196-10

Prepared: 8/5/2013 Analyzed: 8/6/2013

DRO	104.240	5.0	33.3333	59.1737	135	17 - 112	41.3	20	M2
Surrogate: <i>p</i> -Terphenyl	0.000		2.66667		NR	33 - 147			S4



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 08/20/2013

BTEX/MTBE by EPA 8021 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3G0478 - GCVOAS

Blank (B3G0478-BLK1)

Prepared: 7/26/2013 Analyzed: 7/26/2013

Benzene	ND	5.0				NR			
Toluene	ND	5.0				NR			
Ethylbenzene	ND	5.0				NR			
m,p-Xylene	ND	10				NR			
o-Xylene	ND	5.0				NR			
<i>Surrogate: 4-Bromofluorobenzene</i>	98.37		100.000			98.4		53 - 136	



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 08/20/2013

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3G0478 - GCVOAS (continued)

LCS (B3G0478-BS2)

Prepared: 7/26/2013 Analyzed: 7/26/2013

Benzene	108.939		100.000		109	70 - 130			
Toluene	103.235		100.000		103	70 - 130			
Ethylbenzene	106.876		100.000		107	70 - 130			
m,p-Xylene	212.073		200.000		106	70 - 130			
o-Xylene	102.622		100.000		103	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.11</i>		<i>100.000</i>		<i>98.1</i>	<i>53 - 136</i>			



Certificate of Analysis

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 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 08/20/2013

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3G0478 - GCVOAS (continued)

LCS Dup (B3G0478-BS2)

Prepared: 7/26/2013 Analyzed: 7/26/2013

Benzene	113.157		100.000		113	70 - 130	3.80	20	
Toluene	107.048		100.000		107	70 - 130	3.63	20	
Ethylbenzene	110.996		100.000		111	70 - 130	3.78	20	
m,p-Xylene	219.773		200.000		110	70 - 130	3.57	20	
o-Xylene	105.909		100.000		106	70 - 130	3.15	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.76</i>		<i>100.000</i>		<i>95.8</i>	<i>53 - 136</i>			



Certificate of Analysis

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 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 08/20/2013

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3G0478 - GCVOAS (continued)

Matrix Spike (B3G0478-MS1)

Source: 1302198-01

Prepared: 7/26/2013 Analyzed: 7/26/2013

Benzene	41.0650		40.7500	ND	101	37 - 139			
Toluene	153.504		202.250	0.275000	75.8	43 - 129			
Ethylbenzene	46.9570		76.0000	ND	61.8	34 - 106			
m,p-Xylene	167.261		206.500	0.346000	80.8	43 - 137			
o-Xylene	61.5480		73.5000	ND	83.7	43 - 144			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>99.79</i>		<i>100.000</i>		<i>99.8</i>	<i>53 - 136</i>			



Certificate of Analysis

Ninyo & Moore
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 Oakland, CA 94612

Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 08/20/2013

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3G0478 - GCVOAS (continued)

Matrix Spike Dup (B3G0478-MSD1)

Source: 1302198-01

Prepared: 7/26/2013 Analyzed: 7/26/2013

Benzene	36.6740		40.7500	ND	90.0	37 - 139	11.3	20	
Toluene	155.692		202.250	0.275000	76.8	43 - 129	1.42	20	
Ethylbenzene	47.4350		76.0000	ND	62.4	34 - 106	1.01	20	
m,p-Xylene	169.281		206.500	0.346000	81.8	43 - 137	1.20	20	
o-Xylene	61.5610		73.5000	ND	83.8	43 - 144	0.0211	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>101.4</i>		<i>100.000</i>		<i>101</i>	<i>53 - 136</i>			



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland, 402090002

Report To : Peter Sims

Reported : 08/20/2013

Notes and Definitions

S4	Surrogate was diluted out.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

- Notes:
- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
 - (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

CHAIN OF CUSTODY RECORD - PLEASE COMPLETE ALL SHADED AREAS



ADVANCED TECHNOLOGY LABORATORIES
 3275 Walnut Ave., Signal Hill, CA 90755
 Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O. #: _____ Quote #: _____
 As the authorized agent of the below named company, I hereby purchase testing services from ATL as dictated below and guarantee payment in full.
 Submitter (Print): _____
 Signature: _____

FOR LABORATORY USE ONLY

Method of Transport <input type="checkbox"/> Client <input type="checkbox"/> ATL <input type="checkbox"/> FedEx <input type="checkbox"/> OnTrac <input type="checkbox"/> GSO <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
---	---

Submitter - Please complete all SHADED areas and include QUOTE # above to ensure proper invoicing.

Client: Ninyo & Moore Address: 1956 Webster Street, Suite 400 Tel: 510-343-3000
 City: Oakland State: CA Zip Code: 95612 Fax: 510-343-3001

Project Name: Ashland Project #: 402090002 Sampler: Peter Sims (Signature) *Peter Sims*

Relinquished by: <i>Peter Sims</i> Date: 7/24/13 Time: 1:45 PM	Received by: <i>Jeff Siegfried</i> Date: 7/24/13 Time: 2:58 PM
Relinquished by: <i>Jeff Siegfried</i> Date: 7/24/13 Time: 3:49 PM	Received by: <i>GSO</i> Date: 7/24/13 Time: 3:49 PM
Relinquished by: _____ Date: _____ Time: _____	Received by: <i>C. Anik</i> Date: 7/24/13 Time: 8 PM

Bill To: Attn: Peter Sims Email: psims@ninyoandmoore.com	Send Report to: Attn: Peter Sims Email: psims@ninyoandmoore.com	Special Instructions/Comments: Business PS <i>Hold samples not marked for analysis</i>
Company: Ninyo & Moore Address: 1956 Webster Street, Suite 400 City: Oakland State: CA ZIP: 94612	Company: Ninyo Address: 1956 Webster Street, Suite 400 City: Oakland State: CA ZIP: 94612	

Samples and Records - Archival & Disposal
 Unless otherwise requested by client, all samples and Hard copy records will be disposed Forty-five (45) days after generation of report - electronic copies retained for five (5) years.

Storage Fees (applies when storage is requested):
 ■ Samples: Forty-five (45) Days Complimentary - \$2.00 / sample /mo thereafter.
 ■ Hardcopy Reports \$17.50 per report.

CIRCLE or Write IN Analyses 8280 - 824 (Nitriles) 80195 (GRO) / 8021 (BTEX) TO-15 / TO-14 / TO-3 / RSX-175 80708 - 825 (BNA) / 8310 (PAHs) 808158 (DRO) / 80195 (ICID) 8082 PCBs 80108 - 200.7 CAM Metals 8020 - 200.8 Metals 7199 - 218.6 (Hex: Chromium) 300 (Anions) / 314 (Perchlorate) 800B Lead	CIRCLE APPROPRIATE MATRIX SOIL / SEDIMENT / SLUDGE SOLIDS / WIPES / FILTERS WATER - DRINKING / GROUND AQUEOUS / WASTE TAT # Type	Q A / Q C RTNE <input type="checkbox"/> CT <input type="checkbox"/> Legal <input type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____ REMARKS _____
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ITEM	BUSINESS HOURS 8:30 AM TO 5:30 PM		Sample Description		
	Lab No.	Sample ID / Location	Date	Time	
1	130 2190-1	L10-N2.5-0-1	7/23/13	0735	
2	-2	L10-N5-0-1		0738	
3	-3	L10-N7.5-0-1		0741	
4	-4	L13-N2.5-0-1		0750	
5	-5	L13-N5-0-1		0754	
6	-6	L13-N7.5-0-1		0757	
7	-7	L13-S2.5-0-1		0803	
8	-8	L13-S5-0-1		0810	
9	-9	L13-S7.5-0-1		0812	
10	-10	L13-W2.5-0-1		0817	


■ Samples Submitted AFTER 3:30 PM, are considered received the following business day at 8:30 AM. WEEKEND, HOLIDAY, OFF HOURS WORK - ASK FOR QUOTE

Container Types: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister Material: 1=Glass; 2=Plastic; 3=Metal

Preservatives: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

TAT 0 <input type="checkbox"/> 300% SURCHARGE SAME BUSINESS DAY IF RCVD BY 9:00 AM	TAT 1 <input type="checkbox"/> 100% SURCHARGE NEXT BUSINESS DAY DAY 5:30 PM	TAT 2 <input type="checkbox"/> 50% SURCHARGE 2ND BUSINESS DAY 5:30 PM	TAT 3 <input type="checkbox"/> 30% SURCHARGE 3RD BUSINESS DAY 5:30 PM	TAT 4 <input type="checkbox"/> 20% SURCHARGE 4TH BUSINESS DAY 5:30 PM	TAT 5 <input checked="" type="checkbox"/> NO SURCHARGE 7 BUSINESS DAYS 5:30 PM	TAT 10 <input type="checkbox"/> 5% DISCOUNT 10th BUSINESS DAY 5:30 PM	FOR RUSH TCLP / STLC, ADD 2 DAYS TO RESPECTIVE TAT. Subcon. TAT is 10 - 15 business days; Dioxin and Furans 21 business days.
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CHAIN OF CUSTODY RECORD - PLEASE COMPLETE ALL SHADED AREAS

 ADVANCED TECHNOLOGY LABORATORIES 3275 Walnut Ave., Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040	P.O. #: _____ Quote #: _____	FOR LABORATORY USE ONLY		
	As the authorized agent of the below named company, I hereby purchase testing services from ATL as dictated below and guarantee payment in full.		Method of Transport <input type="checkbox"/> Client <input type="checkbox"/> ATL <input type="checkbox"/> FedEx <input type="checkbox"/> OnTrac <input type="checkbox"/> GSO <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
	Submitter (Print): _____ Signature: _____			

Submitter - Please complete all SHADED areas and include QUOTE # above to ensure proper invoicing.

Client: Ninyo & Moore	Address: 1956 Webster Street, Suite 400	Tel: 510-343-3000
	City: Oakland State: CA Zip Code: 95612	Fax: 510-343-3001

Project Name: Ashland	Project #: 402090002	Sampler: Peter Sims (Signature) <i>Peter Sims</i>
------------------------------	-----------------------------	--

Relinquished by: (Signature and Printed Name) <i>Peter Sims</i>	Date: 7/24/13	Time: 1455	Received by: (Signature and Printed Name) <i>Jeff Sieghart</i>	Date: 7/24/13	Time: 255 p
Relinquished by: (Signature and Printed Name) <i>Jeff Sieghart</i>	Date: 7/24/13	Time: 349 p	Received by: (Signature and Printed Name) <i>GSO</i>	Date: 7/24/13	Time: 349 p
Relinquished by: (Signature and Printed Name) <i>Jeff Sieghart</i>	Date: 7/24/13	Time: 349 p	Received by: (Signature and Printed Name) <i>C. Ayik</i>	Date: 7/24/13	Time: 825


Bill To: _____	Send Report to: _____	Special Instructions/Comments: Hold samples not marked for analysis
Attn: Peter Sims Email: psims@ninyoandmoore.com	Attn: Peter Sims Email: psims@ninyoandmoore.com	
Company: Ninyo & Moore	Company: Ninyo	
Address: 1956 Webster Street, Suite 400	Address: 1956 Webster Street, Suite 400	
City: Oakland State: CA ZIP: 94612	City: Oakland State: CA ZIP: 94612	

Samples and Records - Archival & Disposal
 Unless otherwise requested by client, all samples and Hard copy records will be disposed Forty-five (45) days after generation of report - electronic copies retained for five (5) years.
 Storage Fees (applies when storage is requested):
 ■ Samples: Forty-five (45) Days Complimentary - \$2.00 / sample /mo thereafter.
 ■ Hardcopy Reports \$17.50 per report.

ITEM	BUSINESS HOURS 8:30 AM TO 5:30 PM		Sample Description				CIRCLE or Write IN Analyses												CIRCLE APPROPRIATE MATRIX						Q / Q C	
	Lab No.	Sample ID / Location	Date	Time																			RTNE	CT	Legal	
1	132296-41	CP3-E10-0-1	7/23/13	1228													X									
2	-42	CP3-E10-1-2		1230																						
3	-43	CP3-E10-23		1232																						
4	-44	CP3-E10-3-4		1234																						
5	-45	CP3-E15-0-1		1249																						
6	-46	CP3-E15-1-2		1252																						
7	-47	CP3-E15-2-3		1255																						
8	-48	CP3-E15-3-4		1258																						
9	-49	CP3-N5-0-1		1310																						
10	-50	CP3-N5-1-2		1313																						

■ Samples Submitted AFTER 3:30 PM, are considered received the following business day at 8:30 AM.	WEEKEND, HOLIDAY, OFF HOURS WORK - ASK for QUOTE	Container Types: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Teclard; 7 = Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservatives: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3			
TAT 0 <input type="checkbox"/> 300% SURCHARGE SAME BUSINESS DAY IF RECEIVED BY 9:00 AM	TAT 1 <input type="checkbox"/> 100% SURCHARGE NEXT BUSINESS DAY 5:30 PM	TAT 2 <input type="checkbox"/> 50% SURCHARGE 2ND BUSINESS DAY 5:30 PM	TAT 3 <input type="checkbox"/> 30% SURCHARGE 3RD BUSINESS DAY 5:30 PM	TAT 4 <input type="checkbox"/> 20% SURCHARGE 4TH BUSINESS DAY 5:30 PM	TAT 5 <input checked="" type="checkbox"/> NO SURCHARGE 7 BUSINESS DAYS 5:30 PM	TAT 10 <input type="checkbox"/> 5% DISCOUNT 10th BUSINESS DAY 5:30 PM	FOR RUSH TCLP / STLC, ADD 2 DAYS TO RESPECTIVE TAT. Subcon. TAT is 10 - 15 business days; Dioxin and Furans 21 business days.

CHAIN OF CUSTODY RECORD - PLEASE COMPLETE ALL SHADED AREAS

 ADVANCED TECHNOLOGY LABORATORIES 3275 Walnut Ave., Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040	P.O. #:	Quote #:	FOR LABORATORY USE ONLY		
	As the authorized agent of the below named company, I hereby purchase testing services from ATL as dictated below and guarantee payment in full.		Method of Transport <input type="checkbox"/> Client <input type="checkbox"/> ATL <input type="checkbox"/> FedEx <input type="checkbox"/> OnTrac <input type="checkbox"/> GSO <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>	
	Submitter (Print):				
	Signature:				

Submitter - Please complete all SHADED areas and include QUOTE # above to ensure proper invoicing.

Client: Ninyo & Moore	Address: 1956 Webster Street, Suite 400	Tel: 510-343-3000
	City: Oakland State: CA Zip Code: 95612	Fax: 510-343-3001

Project Name: Ashland	Project #: 402090002	Sampler: Peter Sims
Relinquished by: (Signature and Printed Name) <i>Peter Sims</i>	Date: 7/24/13	Time: 1455
Relinquished by: (Signature and Printed Name) <i>Jeff Siegfried</i>	Date: 7/24/13	Time: 255r
Relinquished by: (Signature and Printed Name) <i>C. Lynch</i>	Date: 7/24/13	Time: 349r

Bill To:	Send Report to:	Special Instructions/Comments:
Attn: Peter Sims Email: psims@ninyoandmoore.com	Attn: Peter Sims Email: psims@ninyoandmoore.com	Hold samples not marked for analysis
Company: Ninyo & Moore	Company: Ninyo	
Address: 1956 Webster Street, Suite 400	Address: 1956 Webster Street, Suite 400	
City: Oakland State: CA ZIP: 94612	City: Oakland State: CA ZIP: 94612	

Samples and Records - Archival & Disposal					CIRCLE or Write IN Analyses	CIRCLE APPROPRIATE MATRIX										PRESERVATION	Q A / Q C	
Unless otherwise requested by client, all samples and Hard copy records will be disposed Forty-five (45) days after generation of report - electronic copies retained for five (5) years.																		
Storage Fees (applies when storage is requested):															TAT #	Type	REMARKS	
<ul style="list-style-type: none"> ■ Samples: Forty-five (45) Days Complimentary - \$2.00 / sample /mo thereafter. ■ Hardcopy Reports \$17.50 per report. 																		
T E M	BUSINESS HOURS 8:30 AM TO 5:30 PM	Sample Description													Container(s)			
1	Lab No.	Sample ID / Location	Date	Time											#	Type		
1	170219C-51	CP3-N5-2-3	7/23/13	1317											5	1	4	
2	-52	CP3-N5-3-4		1320														
3	-53	CP3-N10-0-1		1337														
4	-54	CP3-N10-1-2		1340														
5	-55	CP3-N10-2-3		1342														
6	-56	CP3-N10-3-4		1344														
7																		
8																		
9																		
10																		

■ Samples Submitted AFTER 3:30 PM, are considered received the following business day at 8:30 AM.	WEEKEND, HOLIDAY, OFF HOURS WORK - ASK for QUOTE	Container Types: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Teclar; 7 = Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservatives: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3			
TAT 0 <input type="checkbox"/> 300% SURCHARGE SAME BUSINESS DAY IF RCV'D BY 9:00 AM	TAT 1 <input type="checkbox"/> 100% SURCHARGE NEXT BUSINESS DAY DAY 5:30 PM	TAT 2 <input type="checkbox"/> 50% SURCHARGE 2ND BUSINESS DAY 5:30 PM	TAT 3 <input type="checkbox"/> 30% SURCHARGE 3RD BUSINESS DAY 5:30 PM	TAT 4 <input type="checkbox"/> 20% SURCHARGE 4TH BUSINESS DAY 5:30 PM	TAT 5 <input checked="" type="checkbox"/> NO SURCHARGE 7 BUSINESS DAYS 5:30 PM	TAT 10 <input type="checkbox"/> 5% DISCOUNT 10th BUSINESS DAY 5:30 PM	FOR RUSH TCLP / STLC, ADD 2 DAYS TO RESPECTIVE TAT. Subcon. TAT is 10 - 15 business days; Dioxin and Furans 21 business days.

Rachelle Arada

From: Peter Sims [psims@ninyoandmoore.com]
Sent: Friday, August 02, 2013 2:35 PM
To: Rachelle Arada
Subject: RE: Results - Ashland, 402090002 (ATL# 1302196)

Thanks for catching that, please analyze L13A-0-1 for STLC lead and TPHd/mo

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x15216 (Office)
(510) 327-9335 (Cell Phone)
(510) 343-3001 (Fax)
psims@ninyoandmoore.com

New San Jose office
2149 O'Toole Avenue, Suite 10
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

Experience · Quality · Commitment

-----Original Message-----

From: Rachelle Arada [mailto:Rachelle@atlglobal.com]
Sent: Friday, August 02, 2013 2:35 PM
To: Peter Sims
Cc: customer.relations@atlglobal.com
Subject: RE: Results - Ashland, 402090002 (ATL# 1302196)

Hi Peter,

I did not find L13-0-1 in our system, we have sample L13A-0-1, is the same sample?

Rachelle

From: Peter Sims [mailto:psims@ninyoandmoore.com]
Sent: Friday, August 02, 2013 1:58 PM
To: Rachelle Arada
Subject: RE: Results - Ashland, 402090002 (ATL# 1302196)

Please analyze sample L13-0-1 for STLC lead and samples L13-0-1, L13-S2.5-0-1, L13-N2.5-0-1, and L13-W2.5-0-1 for TPHd/mo with silica gel cleanup on normal TAT. Please perform extraction for TPHd/mo analysis on samples L13-S5-0-1, L13-S7.5-0-1, L13-N5-0-1, L13-N7.5-0-1, L13-W5-0-1, and L13-W7.5-0-1.

Thank you,

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x15216 (Office)

Rachelle Arada

From: Peter Sims [psims@ninyoandmoore.com]
Sent: Monday, August 05, 2013 2:22 PM
To: Rachelle Arada
Subject: RE: Results - Ashland, 402090002 (ATL# 1302196)

Please also analyze samples L13-N2.5-0-1, L13-S2.5-0-1, and L13-W2.5-0-1 for arsenic.

Peter D. Sims, LEED AP
Project Environmental Geologist

Ninyo & Moore

Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x15216 (Office)
(510) 327-9335 (Cell Phone)
(510) 343-3001 (Fax)
psims@ninyoandmoore.com

New San Jose office
2149 O'Toole Avenue, Suite 10
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

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Rachelle Arada

From: Peter Sims [psims@ninyoandmoore.com]
Sent: Monday, August 12, 2013 9:50 AM
To: Rachelle Arada
Subject: RE: Add'l results - Ashland, 402090002 (ATL# 1302196)

Hi Rachelle,

Please analyze samples L13-N5-0-1, L13-N7.5-0-1, L13-S5-0-1, and L13-S7.5-0-1 for TPHd/mo and sample L13-N2.5-0-1 for arsenic. Turn around time is >36 hours and <48 hours.

Thank you,

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x15216 (Office)
(510) 327-9335 (Cell Phone)
(510) 343-3001 (Fax)
psims@ninyoandmoore.com

New San Jose office
2149 O'Toole Avenue, Suite 10
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

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-----Original Message-----

From: Rachelle Arada [<mailto:Rachelle@atlglobal.com>]
Sent: Friday, August 09, 2013 2:05 PM
To: Peter Sims
Subject: Add'l results - Ashland, 402090002 (ATL# 1302196)

Hi Peter,

Attached are the results for the above project. Please let me know if you need further analyses.

Rachelle Arada
Project Manager



Advanced Technology Laboratories

www.atlglobal.com
Tel: (562) 989-4045 ext. 237
Fax: (562) 989-4040

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*

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Rachelle Arada

From: Peter Sims [psims@ninyoandmoore.com]
Sent: Monday, August 19, 2013 3:32 PM
To: Rachelle Arada
Subject: RE: Final report - Ashland, 402090002 (ATL# 1302196)

Hi Rachelle,

Please analyze samples CP3-N5-0-1, CP3-S5-0-1, CP3-E5-0-1, and CP3-W5-0-1 for lead on rush TAT. Also, please remove the TPHd and TPHmo results without silica gel cleanup for L13A-0-1 from the lab report.

Thanks for handling my multitude of requests on this project!

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x15216 (Office)
(510) 327-9335 (Cell Phone)
(510) 343-3001 (Fax)
psims@ninyoandmoore.com

New San Jose office
2149 O'Toole Avenue, Suite 10
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

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-----Original Message-----

From: Rachelle Arada [<mailto:Rachelle@atlglobal.com>]
Sent: Thursday, August 15, 2013 2:22 PM
To: Peter Sims
Subject: Final report - Ashland, 402090002 (ATL# 1302196)

Hi Peter,

Attached are the results for the above project.

Rachelle Arada
Project Manager



Advanced Technology Laboratories

www.atlglobal.com
Tel: (562) 989-4045 ext. 237
Fax: (562) 989-4040

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*

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August 30, 2013

Peter Sims
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
Tel: (510) 633-5640
Fax:(510) 633-5646



Re: ATL Work Order Number : 1301806
Client Reference : Ashland Housing Project, 402090002

Enclosed are the results for sample(s) received on June 18, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 08/30/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L13-0-1	1301806-03	Soil	6/17/13 7:55	6/18/13 9:25



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002
 Report To : Peter Sims
 Reported : 08/30/2013

Client Sample ID L13-0-1
Lab ID: 1301806-03

STLC Metals by ICP-AES by EPA 6010B

Analyst: AG

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	3.4	1.0	NA	20	B3H0599	08/30/2013	08/30/13 12:50	

QUALITY CONTROL SECTION

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	---------------	------------	-------------	---------------	-------	--------------	-----	-----------	-------

Batch B3H0599 - STLC Extraction

Blank (B3H0599-BLK1)				Prepared: 8/30/2013 Analyzed: 8/30/2013					
Lead	ND	1.0			NR				
LCS (B3H0599-BS1)				Prepared: 8/30/2013 Analyzed: 8/30/2013					
Lead	2.10939	1.0	2.00000		105	80 - 120			
Matrix Spike (B3H0599-MS1)				Source: 1301538-48 Prepared: 8/30/2013 Analyzed: 8/30/2013					
Lead	5.04333	1.0	2.50000	2.71256	93.2	33 - 131			
Matrix Spike Dup (B3H0599-MSD1)				Source: 1301538-48 Prepared: 8/30/2013 Analyzed: 8/30/2013					
Lead	5.20012	1.0	2.50000	2.71256	99.5	33 - 131	3.06	20	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 08/30/2013

Notes and Definitions

ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

Rachelle Arada

From: Peter Sims [psims@ninyoandmoore.com]
Sent: Tuesday, August 27, 2013 11:41 AM
To: Rachelle Arada
Cc: customer.relations@atglobal.com
Subject: ATL report 1301538

Hi Rachelle,

Please analyze samples L10-0-1 and L13-0-1 for STLC lead on rush TAT and start the extraction for TCLP lead.

Thank you,

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x15216 (Office)
(510) 327-9335 (Cell Phone)
(510) 343-3001 (Fax)
psims@ninyoandmoore.com

New San Jose office
2149 O'Toole Avenue, Suite 10
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

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August 30, 2013

Peter Sims
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
Tel: (510) 633-5640
Fax:(510) 633-5646



Re: ATL Work Order Number : 1301538
Client Reference : Kent Ave, 402090002

Enclosed are the results for sample(s) received on May 24, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 08/30/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L10-0-1	1301538-48	Soil	5/23/13 12:20	5/24/13 8:30



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 08/30/2013

Client Sample ID L10-0-1
Lab ID: 1301538-48

STLC Metals by ICP-AES by EPA 6010B

Analyst: AG

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.7	1.0	NA	20	B3H0599	08/30/2013	08/30/13 12:34	

QUALITY CONTROL SECTION

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	---------------	------------	-------------	---------------	-------	--------------	-----	-----------	-------

Batch B3H0599 - STLC Extraction

Blank (B3H0599-BLK1)				Prepared: 8/30/2013 Analyzed: 8/30/2013					
Lead	ND	1.0			NR				
LCS (B3H0599-BS1)				Prepared: 8/30/2013 Analyzed: 8/30/2013					
Lead	2.10939	1.0	2.00000		105	80 - 120			
Matrix Spike (B3H0599-MS1)				Source: 1301538-48 Prepared: 8/30/2013 Analyzed: 8/30/2013					
Lead	5.04333	1.0	2.50000	2.71256	93.2	33 - 131			
Matrix Spike Dup (B3H0599-MSD1)				Source: 1301538-48 Prepared: 8/30/2013 Analyzed: 8/30/2013					
Lead	5.20012	1.0	2.50000	2.71256	99.5	33 - 131	3.06	20	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 08/30/2013

Notes and Definitions

ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

- Notes:
- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
 - (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

Rachelle Arada

From: Peter Sims [psims@ninyoandmoore.com]
Sent: Tuesday, August 27, 2013 11:41 AM
To: Rachelle Arada
Cc: customer.relations@atglobal.com
Subject: ATL report 1301538

Hi Rachelle,

Please analyze samples L10-0-1 and L13-0-1 for STLC lead on rush TAT and start the extraction for TCLP lead.

Thank you,

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x15216 (Office)
(510) 327-9335 (Cell Phone)
(510) 343-3001 (Fax)
psims@ninyoandmoore.com

New San Jose office
2149 O'Toole Avenue, Suite 10
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

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September 17, 2013

Peter Sims
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
Tel: (510) 633-5640
Fax: (510) 633-5646



Re: ATL Work Order Number : 1301538
Client Reference : Kent Ave, 402090002

Enclosed are the results for sample(s) received on May 24, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 09/17/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP1-1-2	1301538-14	Soil	5/23/13 7:50	5/24/13 8:30
CP2-1-2	1301538-15	Soil	5/23/13 8:25	5/24/13 8:30
CP3-1-2	1301538-16	Soil	5/23/13 8:15	5/24/13 8:30



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Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 09/17/2013

Client Sample ID CP1-1-2

Lab ID: 1301538-14

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B3I0177	09/11/2013	09/12/13 09:52	
Arsenic	4.3	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:52	
Barium	120	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:52	
Beryllium	ND	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:52	
Cadmium	ND	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:52	
Chromium	34	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:52	
Cobalt	8.2	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:52	
Copper	16	2.0	NA	1	B3I0177	09/11/2013	09/12/13 09:52	
Lead	5.4	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:52	
Molybdenum	ND	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:52	
Nickel	39	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:52	
Selenium	1.6	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:52	
Silver	ND	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:52	
Thallium	ND	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:52	
Vanadium	29	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:52	
Zinc	35	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:52	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Kent Ave, 402090002
Report To : Peter Sims
Reported : 09/17/2013

Client Sample ID CP2-1-2

Lab ID: 1301538-15

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B3I0177	09/11/2013	09/12/13 09:56	
Arsenic	4.3	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:56	
Barium	110	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:56	
Beryllium	ND	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:56	
Cadmium	ND	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:56	
Chromium	32	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:56	
Cobalt	7.5	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:56	
Copper	16	2.0	NA	1	B3I0177	09/11/2013	09/12/13 09:56	
Lead	4.8	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:56	
Molybdenum	ND	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:56	
Nickel	37	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:56	
Selenium	1.2	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:56	
Silver	ND	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:56	
Thallium	ND	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:56	
Vanadium	26	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:56	
Zinc	35	1.0	NA	1	B3I0177	09/11/2013	09/12/13 09:56	



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 09/17/2013

Client Sample ID CP3-1-2

Lab ID: 1301538-16

Total Metals by ICP-AES EPA 6010B

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	51	1.0	NA	1	B3I0107	09/10/2013	09/10/13 14:15	

Title 22 Metals by ICP-AES EPA 6010B

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B3I0107	09/10/2013	09/10/13 14:15	
Arsenic	3.7	1.0	NA	1	B3I0107	09/10/2013	09/10/13 14:15	
Barium	140	1.0	NA	1	B3I0107	09/10/2013	09/10/13 14:15	
Beryllium	ND	1.0	NA	1	B3I0107	09/10/2013	09/10/13 14:14	
Cadmium	ND	1.0	NA	1	B3I0107	09/10/2013	09/10/13 14:15	
Chromium	34	1.0	NA	1	B3I0107	09/10/2013	09/10/13 14:15	
Cobalt	7.1	1.0	NA	1	B3I0107	09/10/2013	09/10/13 14:15	
Copper	16	2.0	NA	1	B3I0107	09/10/2013	09/10/13 14:15	
Lead	51	1.0	NA	1	B3I0107	09/10/2013	09/10/13 14:15	
Molybdenum	ND	1.0	NA	1	B3I0107	09/10/2013	09/10/13 14:15	
Nickel	36	1.0	NA	1	B3I0107	09/10/2013	09/10/13 14:15	
Selenium	ND	1.0	NA	1	B3I0107	09/10/2013	09/10/13 14:15	
Silver	ND	1.0	NA	1	B3I0107	09/10/2013	09/10/13 14:15	
Thallium	ND	1.0	NA	1	B3I0107	09/10/2013	09/10/13 14:15	
Vanadium	28	1.0	NA	1	B3I0107	09/10/2013	09/10/13 14:15	
Zinc	41	1.0	NA	1	B3I0107	09/10/2013	09/10/13 14:15	



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 09/17/2013

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B3I0107 - EPA 3050B									
Blank (B3I0107-BLK1)				Prepared: 9/10/2013 Analyzed: 9/10/2013					
Lead	ND	1.0			NR				
LCS (B3I0107-BS1)				Prepared: 9/10/2013 Analyzed: 9/10/2013					
Lead	49.7438	1.0	50.0000		99.5	80 - 120			
Matrix Spike (B3I0107-MS1)		Source: 1301538-16		Prepared: 9/10/2013 Analyzed: 9/10/2013					
Lead	144.601	1.0	125.000	51.4298	74.5	51 - 106			
Matrix Spike Dup (B3I0107-MSD1)		Source: 1301538-16		Prepared: 9/10/2013 Analyzed: 9/10/2013					
Lead	113.174	1.0	125.000	51.4298	49.4	51 - 106	24.4	20	M1, R



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 09/17/2013

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B310107 - EPA 3050B

Blank (B310107-BLK1)

Prepared: 9/10/2013 Analyzed: 9/10/2013

Antimony	ND	2.0			NR
Arsenic	ND	1.0			NR
Barium	ND	1.0			NR
Beryllium	ND	1.0			NR
Cadmium	ND	1.0			NR
Chromium	ND	1.0			NR
Cobalt	ND	1.0			NR
Copper	ND	2.0			NR
Lead	ND	1.0			NR
Molybdenum	ND	1.0			NR
Nickel	ND	1.0			NR
Selenium	ND	1.0			NR
Silver	ND	1.0			NR
Thallium	ND	1.0			NR
Vanadium	ND	1.0			NR
Zinc	ND	1.0			NR

LCS (B310107-BS1)

Prepared: 9/10/2013 Analyzed: 9/10/2013

Antimony	52.4650	2.0	50.0000		105	80 - 120
Arsenic	48.8021	1.0	50.0000		97.6	80 - 120
Barium	52.1526	1.0	50.0000		104	80 - 120
Beryllium	53.7820	1.0	50.0000		108	80 - 120
Cadmium	49.5104	1.0	50.0000		99.0	80 - 120
Chromium	52.6396	1.0	50.0000		105	80 - 120
Cobalt	50.7667	1.0	50.0000		102	80 - 120
Copper	52.1354	2.0	50.0000		104	80 - 120
Lead	49.7438	1.0	50.0000		99.5	80 - 120
Molybdenum	49.6780	1.0	50.0000		99.4	80 - 120
Nickel	49.7384	1.0	50.0000		99.5	80 - 120
Selenium	46.0305	1.0	50.0000		92.1	80 - 120
Silver	50.0124	1.0	50.0000		100	80 - 120
Thallium	50.6518	1.0	50.0000		101	80 - 120
Vanadium	51.8921	1.0	50.0000		104	80 - 120
Zinc	46.2668	1.0	50.0000		92.5	80 - 120

Matrix Spike (B310107-MS1)

Source: 1301538-16

Prepared: 9/10/2013 Analyzed: 9/10/2013

Antimony	70.9657	2.0	125.000	ND	56.8	21 - 109
Arsenic	106.125	1.0	125.000	3.73720	81.9	55 - 102
Barium	249.060	1.0	125.000	136.085	90.4	40 - 130
Beryllium	108.483	1.0	125.000	0.290481	86.6	60 - 104
Cadmium	100.197	1.0	125.000	0.440564	79.8	52 - 100
Chromium	143.057	1.0	125.000	33.6728	87.5	53 - 113



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 09/17/2013

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3I0107 - EPA 3050B (continued)

Matrix Spike (B3I0107-MS1) - Continued

Source: 1301538-16

Prepared: 9/10/2013 Analyzed: 9/10/2013

Cobalt	111.751	1.0	125.000	7.10695	83.7	53 - 104
Copper	131.701	2.0	125.000	16.3311	92.3	51 - 122
Lead	144.601	1.0	125.000	51.4298	74.5	51 - 106
Molybdenum	99.2036	1.0	125.000	0.178610	79.2	55 - 103
Nickel	142.308	1.0	125.000	36.2960	84.8	48 - 112
Selenium	93.7250	1.0	125.000	ND	75.0	53 - 104
Silver	108.698	1.0	125.000	ND	87.0	61 - 109
Thallium	96.4594	1.0	125.000	ND	77.2	44 - 103
Vanadium	140.372	1.0	125.000	27.9442	89.9	55 - 115
Zinc	145.915	1.0	125.000	40.7026	84.2	24 - 130

Matrix Spike Dup (B3I0107-MSD1)

Source: 1301538-16

Prepared: 9/10/2013 Analyzed: 9/10/2013

Antimony	68.9847	2.0	125.000	ND	55.2	21 - 109	2.83	20
Arsenic	100.633	1.0	125.000	3.73720	77.5	55 - 102	5.31	20
Barium	226.569	1.0	125.000	136.085	72.4	40 - 130	9.46	20
Beryllium	102.310	1.0	125.000	0.290481	81.6	60 - 104	5.86	20
Cadmium	95.0152	1.0	125.000	0.440564	75.7	52 - 100	5.31	20
Chromium	135.826	1.0	125.000	33.6728	81.7	53 - 113	5.19	20
Cobalt	104.319	1.0	125.000	7.10695	77.8	53 - 104	6.88	20
Copper	123.124	2.0	125.000	16.3311	85.4	51 - 122	6.73	20
Lead	113.174	1.0	125.000	51.4298	49.4	51 - 106	24.4	20
Molybdenum	95.0580	1.0	125.000	0.178610	75.9	55 - 103	4.27	20
Nickel	131.342	1.0	125.000	36.2960	76.0	48 - 112	8.01	20
Selenium	90.4477	1.0	125.000	ND	72.4	53 - 104	3.56	20
Silver	102.300	1.0	125.000	ND	81.8	61 - 109	6.06	20
Thallium	91.5960	1.0	125.000	ND	73.3	44 - 103	5.17	20
Vanadium	132.550	1.0	125.000	27.9442	83.7	55 - 115	5.73	20
Zinc	132.680	1.0	125.000	40.7026	73.6	24 - 130	9.50	20

M1, R

Batch B3I0177 - EPA 3050B

Blank (B3I0177-BLK1)

Prepared: 9/11/2013 Analyzed: 9/12/2013

Antimony	ND	2.0	NR
Arsenic	ND	1.0	NR
Barium	ND	1.0	NR
Beryllium	ND	1.0	NR
Cadmium	ND	1.0	NR
Chromium	ND	1.0	NR
Cobalt	ND	1.0	NR
Copper	ND	2.0	NR
Lead	ND	1.0	NR



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 09/17/2013

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B310177 - EPA 3050B (continued)

Blank (B310177-BLK1) - Continued

Prepared: 9/11/2013 Analyzed: 9/12/2013

Molybdenum	ND	1.0			NR				
Nickel	ND	1.0			NR				
Selenium	ND	1.0			NR				
Silver	ND	1.0			NR				
Thallium	ND	1.0			NR				
Vanadium	ND	1.0			NR				
Zinc	ND	1.0			NR				

LCS (B310177-BS1)

Prepared: 9/11/2013 Analyzed: 9/12/2013

Antimony	46.7948	2.0	50.0000		93.6	80 - 120			
Arsenic	46.2724	1.0	50.0000		92.5	80 - 120			
Barium	49.7220	1.0	50.0000		99.4	80 - 120			
Beryllium	49.5072	1.0	50.0000		99.0	80 - 120			
Cadmium	47.5078	1.0	50.0000		95.0	80 - 120			
Chromium	50.9618	1.0	50.0000		102	80 - 120			
Cobalt	49.1696	1.0	50.0000		98.3	80 - 120			
Copper	48.6588	2.0	50.0000		97.3	80 - 120			
Lead	47.3459	1.0	50.0000		94.7	80 - 120			
Molybdenum	49.4919	1.0	50.0000		99.0	80 - 120			
Nickel	48.1634	1.0	50.0000		96.3	80 - 120			
Selenium	43.4086	1.0	50.0000		86.8	80 - 120			
Silver	45.0161	1.0	50.0000		90.0	80 - 120			
Thallium	48.5766	1.0	50.0000		97.2	80 - 120			
Vanadium	48.2721	1.0	50.0000		96.5	80 - 120			
Zinc	45.6307	1.0	50.0000		91.3	80 - 120			

Matrix Spike (B310177-MS1)

Source: 1301538-14

Prepared: 9/11/2013 Analyzed: 9/12/2013

Antimony	69.8703	2.0	125.000	ND	55.9	21 - 109			
Arsenic	100.601	1.0	125.000	4.25166	77.1	55 - 102			
Barium	206.454	1.0	125.000	117.592	71.1	40 - 130			
Beryllium	98.9640	1.0	125.000	0.381398	78.9	60 - 104			
Cadmium	92.3428	1.0	125.000	ND	73.9	52 - 100			
Chromium	134.532	1.0	125.000	33.8818	80.5	53 - 113			
Cobalt	102.855	1.0	125.000	8.21980	75.7	53 - 104			
Copper	118.549	2.0	125.000	16.1211	81.9	51 - 122			
Lead	98.8117	1.0	125.000	5.37182	74.8	51 - 106			
Molybdenum	97.4440	1.0	125.000	0.166568	77.8	55 - 103			
Nickel	131.197	1.0	125.000	38.6170	74.1	48 - 112			
Selenium	93.1690	1.0	125.000	1.56033	73.3	53 - 104			
Silver	100.340	1.0	125.000	ND	80.3	61 - 109			
Thallium	90.7314	1.0	125.000	ND	72.6	44 - 103			
Vanadium	125.376	1.0	125.000	28.6427	77.4	55 - 115			



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 09/17/2013

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3I0177 - EPA 3050B (continued)

Matrix Spike (B3I0177-MS1) - Continued

Source: 1301538-14

Prepared: 9/11/2013 Analyzed: 9/12/2013

Zinc	127.442	1.0	125.000	34.6148	74.3	24 - 130			
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Matrix Spike Dup (B3I0177-MSD1)

Source: 1301538-14

Prepared: 9/11/2013 Analyzed: 9/12/2013

Antimony	76.8557	2.0	125.000	ND	61.5	21 - 109	9.52	20	
Arsenic	105.424	1.0	125.000	4.25166	80.9	55 - 102	4.68	20	
Barium	251.355	1.0	125.000	117.592	107	40 - 130	19.6	20	
Beryllium	101.282	1.0	125.000	0.381398	80.7	60 - 104	2.31	20	
Cadmium	95.1982	1.0	125.000	ND	76.2	52 - 100	3.05	20	
Chromium	138.099	1.0	125.000	33.8818	83.4	53 - 113	2.62	20	
Cobalt	105.313	1.0	125.000	8.21980	77.7	53 - 104	2.36	20	
Copper	122.517	2.0	125.000	16.1211	85.1	51 - 122	3.29	20	
Lead	104.146	1.0	125.000	5.37182	79.0	51 - 106	5.26	20	
Molybdenum	101.637	1.0	125.000	0.166568	81.2	55 - 103	4.21	20	
Nickel	133.589	1.0	125.000	38.6170	76.0	48 - 112	1.81	20	
Selenium	96.0224	1.0	125.000	1.56033	75.6	53 - 104	3.02	20	
Silver	102.879	1.0	125.000	ND	82.3	61 - 109	2.50	20	
Thallium	94.2788	1.0	125.000	ND	75.4	44 - 103	3.83	20	
Vanadium	128.787	1.0	125.000	28.6427	80.1	55 - 115	2.68	20	
Zinc	132.326	1.0	125.000	34.6148	78.2	24 - 130	3.76	20	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 09/17/2013

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

Rachelle Arada

From: Kris Larson [klarson@ninyoandmoore.com]
Sent: Wednesday, September 04, 2013 12:49 PM
To: Rachelle Arada
Cc: Peter Sims; Duane Blamer
Subject: Lab ID 1301538-16 analysis for lead

Rachelle,
Please analyze sample Id number 1301538-16 (CP3-1-2) for total lead using a normal TAT. This sample was submitted on May 24, so if you no longer have it please let me know.
Thanks,

Kris M. Larson, P.G., QSD
Principal Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 (x15212)
(510) 343-3001 (Fax)
(510) 301-9446 (Cell)
klarson@ninyoandmoore.com

New San Jose office
2149 O'Toole Avenue, Suite 10
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

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Rachelle Arada

From: Kris Larson [klarson@ninyoandmoore.com]
Sent: Tuesday, September 10, 2013 2:41 PM
To: Rachelle Arada
Cc: Peter Sims
Subject: Additional soil sample analysis for ATL Lab ID 1301538

Rachelle,

Please have the following soil samples analyzed for Title 22 Metals using 6010B on a normal TAT.

Ninyo & Moore Sample ID: CP1-1-2, ATL Lab ID 1301538-14

Ninyo & Moore Sample ID: CP2-1-2 ATL Lab ID: 1301538-15

Ninyo & Moore Sample ID: CP3-1-2 ATL Lab ID: 1301538-16

Thanks,

Kris M. Larson, P.G., QSD
Principal Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 (x15212)
(510) 343-3001 (Fax)
(510) 301-9446 (Cell)
klarson@ninyoandmoore.com

New San Jose office
2149 O'Toole Avenue, Suite 10
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

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September 24, 2013

Peter Sims
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
Tel: (510) 633-5640
Fax: (510) 633-5646



Re: ATL Work Order Number : 1301538
Client Reference : Kent Ave, 402090002

Enclosed are the results for sample(s) received on May 24, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 09/24/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP3-1-2	1301538-16	Soil	5/23/13 8:15	5/24/13 8:30



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Kent Ave, 402090002
 Report To : Peter Sims
 Reported : 09/24/2013

Client Sample ID CP3-1-2

Lab ID: 1301538-16

STLC Metals by ICP-AES by EPA 6010B

Analyst: AG

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.1	1.0	NA	20	B310390	09/23/2013	09/23/13 13:54	

QUALITY CONTROL SECTION

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B310390 - STLC Extraction

Blank (B310390-BLK1)

Prepared: 9/23/2013 Analyzed: 9/23/2013

Lead	ND	1.0							NR
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LCS (B310390-BS1)

Prepared: 9/23/2013 Analyzed: 9/23/2013

Lead	1.96590	1.0	2.00000		98.3	80 - 120			
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Matrix Spike (B310390-MS1)

Source: 1301538-16

Prepared: 9/23/2013 Analyzed: 9/23/2013

Lead	3.40752	1.0	2.50000	1.08710	92.8	33 - 131			
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Matrix Spike Dup (B310390-MSD1)

Source: 1301538-16

Prepared: 9/23/2013 Analyzed: 9/23/2013

Lead	3.59879	1.0	2.50000	1.08710	100	33 - 131	5.46	20	
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Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Kent Ave, 402090002

Report To : Peter Sims

Reported : 09/24/2013

Notes and Definitions

ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

Rachelle Arada

From: Peter Sims [psims@ninyoandmoore.com]
Sent: Tuesday, September 17, 2013 3:42 PM
To: Rachelle Arada
Cc: Kris Larson
Subject: RE: Add'l results - Kent Ave, 402090002 (ATL# 1301538)

Rachelle,

Please analyze sample CP3-1-2 for Lead STLC.

Thanks,

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x15216 (Office)
(510) 327-9335 (Cell Phone)
(510) 343-3001 (Fax)
psims@ninyoandmoore.com

New San Jose office
2149 O'Toole Avenue, Suite 10
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

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-----Original Message-----

From: Rachelle Arada [<mailto:Rachelle@atlglobal.com>]
Sent: Tuesday, September 17, 2013 3:31 PM
To: Kris Larson
Cc: Peter Sims
Subject: Add'l results - Kent Ave, 402090002 (ATL# 1301538)

Hi Peter,

Attached are the results for the above project.

Rachelle Arada
Project Manager



Advanced Technology Laboratories

www.atlglobal.com

Tel: (562) 989-4045 ext. 237

Fax: (562) 989-4040

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*

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September 27, 2013

Peter Sims
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
Tel: (510) 633-5640
Fax: (510) 633-5646



Re: ATL Work Order Number : 1302977
Client Reference : Ashland Housing Project, 402090002

Enclosed are the results for sample(s) received on September 26, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Rodriguez".

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L13-N2.5-E10-0-1	1302977-01	Soil	9/25/13 7:35	9/26/13 8:00
L13-N2.5-E10-1-2	1302977-02	Soil	9/25/13 7:40	9/26/13 8:00
L13-S7.5-E10-0-1	1302977-05	Soil	9/25/13 8:00	9/26/13 8:00
L13-S7.5-E10-1-2	1302977-06	Soil	9/25/13 8:05	9/26/13 8:00
L13-S7.5-E20-0-1	1302977-09	Soil	9/25/13 8:17	9/26/13 8:00
L13-S7.5-E20-1-2	1302977-10	Soil	9/25/13 8:20	9/26/13 8:00
L13-S7.5-E30-0-1	1302977-13	Soil	9/25/13 8:30	9/26/13 8:00
L13-S7.5-E30-1-2	1302977-14	Soil	9/25/13 8:40	9/26/13 8:00
L13-S15-0-1	1302977-17	Soil	9/25/13 8:49	9/26/13 8:00
L13-S15-1-2	1302977-18	Soil	9/25/13 8:52	9/26/13 8:00
L13-S5B-1-2	1302977-21	Soil	9/25/13 9:05	9/26/13 8:00
L13-S5B-2-3	1302977-22	Soil	9/25/13 9:08	9/26/13 8:00
L13-S7.5-W10-0-1	1302977-24	Soil	9/25/13 9:18	9/26/13 8:00
L13-S7.5-W10-1-2	1302977-25	Soil	9/25/13 9:20	9/26/13 8:00
L13-S7.5-W20-0-1	1302977-28	Soil	9/25/13 9:30	9/26/13 8:00
L13-S7.5-W20-1-2	1302977-29	Soil	9/25/13 9:33	9/26/13 8:00
C1-3-4	1302977-32	Soil	9/25/13 9:55	9/26/13 8:00
C1-7-8	1302977-33	Soil	9/25/13 9:59	9/26/13 8:00
U1-3-4	1302977-34	Soil	9/25/13 10:10	9/26/13 8:00
U1-7-8	1302977-35	Soil	9/25/13 10:12	9/26/13 8:00

CASE NARRATIVE

Sample Receiving/General Comments

All samples were collected 09/25/13 as indicated on sample container labels.



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID L13-N2.5-E10-0-1

Lab ID: 1302977-01

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	7.7	1.0	NA	1	B310482	09/26/2013	09/27/13 02:40	
ORO	16	1.0	NA	1	B310482	09/26/2013	09/27/13 02:40	
<i>Surrogate: p-Terphenyl</i>	<i>82.2 %</i>		<i>33 - 147</i>		B310482	09/26/2013	<i>09/27/13 02:40</i>	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID L13-N2.5-E10-1-2

Lab ID: 1302977-02

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	15	1.0	NA	1	B310482	09/26/2013	09/27/13 04:04	
ORO	45	1.0	NA	1	B310482	09/26/2013	09/27/13 04:04	
<i>Surrogate: p-Terphenyl</i>	<i>55.9 %</i>		<i>33 - 147</i>		B310482	09/26/2013	<i>09/27/13 04:04</i>	



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Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID L13-S7.5-E10-0-1

Lab ID: 1302977-05

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	140	20	NA	10	B310482	09/26/2013	09/27/13 05:28	
ORO	610	20	NA	10	B310482	09/26/2013	09/27/13 05:28	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>33 - 147</i>		B310482	09/26/2013	09/27/13 05:28	S4



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1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID L13-S7.5-E10-1-2

Lab ID: 1302977-06

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	21	1.0	NA	1	B310482	09/26/2013	09/27/13 04:54	
ORO	76	1.0	NA	1	B310482	09/26/2013	09/27/13 04:54	
<i>Surrogate: p-Terphenyl</i>	<i>53.9 %</i>		<i>33 - 147</i>		B310482	09/26/2013	<i>09/27/13 04:54</i>	



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1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID L13-S7.5-E20-0-1

Lab ID: 1302977-09

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	140	20	NA	10	B310482	09/26/2013	09/27/13 05:11	
ORO	690	20	NA	10	B310482	09/26/2013	09/27/13 05:11	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>33 - 147</i>		B310482	09/26/2013	<i>09/27/13 05:11</i>	S4



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID L13-S7.5-E20-1-2

Lab ID: 1302977-10

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	14	1.0	NA	1	B310482	09/26/2013	09/27/13 04:21	
ORO	44	1.0	NA	1	B310482	09/26/2013	09/27/13 04:21	
<i>Surrogate: p-Terphenyl</i>	<i>63.6 %</i>		<i>33 - 147</i>		B310482	09/26/2013	<i>09/27/13 04:21</i>	



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1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID L13-S7.5-E30-0-1

Lab ID: 1302977-13

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	32	1.0	NA	1	B310482	09/26/2013	09/27/13 04:38	
ORO	94	1.0	NA	1	B310482	09/26/2013	09/27/13 04:38	
<i>Surrogate: p-Terphenyl</i>	<i>59.6 %</i>		<i>33 - 147</i>		B310482	09/26/2013	<i>09/27/13 04:38</i>	



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1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID L13-S7.5-E30-1-2

Lab ID: 1302977-14

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	18	1.0	NA	1	B310482	09/26/2013	09/27/13 03:47	
ORO	49	1.0	NA	1	B310482	09/26/2013	09/27/13 03:47	
<i>Surrogate: p-Terphenyl</i>	<i>51.5 %</i>		<i>33 - 147</i>		B310482	09/26/2013	<i>09/27/13 03:47</i>	



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1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID L13-S15-0-1

Lab ID: 1302977-17

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	160	20	NA	10	B310482	09/26/2013	09/27/13 06:02	
ORO	630	20	NA	10	B310482	09/26/2013	09/27/13 06:02	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>33 - 147</i>		B310482	09/26/2013	09/27/13 06:02	S4



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Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID L13-S15-1-2

Lab ID: 1302977-18

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	120	20	NA	10	B310482	09/26/2013	09/27/13 05:45	
ORO	510	20	NA	10	B310482	09/26/2013	09/27/13 05:45	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>33 - 147</i>		B310482	09/26/2013	<i>09/27/13 05:45</i>	S4



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Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID L13-S5B-1-2

Lab ID: 1302977-21

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	7.3	1.0	NA	1	B310482	09/26/2013	09/27/13 03:14	
ORO	18	1.0	NA	1	B310482	09/26/2013	09/27/13 03:14	
<i>Surrogate: p-Terphenyl</i>	<i>75.0 %</i>		<i>33 - 147</i>		B310482	09/26/2013	<i>09/27/13 03:14</i>	



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1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID L13-S5B-2-3

Lab ID: 1302977-22

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5.8	1.0	NA	1	B310482	09/26/2013	09/27/13 02:57	
ORO	10	1.0	NA	1	B310482	09/26/2013	09/27/13 02:57	
<i>Surrogate: p-Terphenyl</i>	<i>65.0 %</i>		<i>33 - 147</i>		B310482	09/26/2013	09/27/13 02:57	



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1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID L13-S7.5-W10-0-1

Lab ID: 1302977-24

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	170	20	NA	10	B310482	09/26/2013	09/27/13 06:18	
ORO	700	20	NA	10	B310482	09/26/2013	09/27/13 06:18	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>33 - 147</i>		B310482	09/26/2013	<i>09/27/13 06:18</i>	S4



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1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID L13-S7.5-W10-1-2

Lab ID: 1302977-25

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	7.5	1.0	NA	1	B310482	09/26/2013	09/27/13 01:33	
ORO	9.5	1.0	NA	1	B310482	09/26/2013	09/27/13 01:33	
<i>Surrogate: p-Terphenyl</i>	<i>69.7 %</i>		<i>33 - 147</i>		B310482	09/26/2013	<i>09/27/13 01:33</i>	



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1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID L13-S7.5-W20-0-1

Lab ID: 1302977-28

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	620	50	NA	25	B310482	09/26/2013	09/27/13 06:35	
ORO	2600	50	NA	25	B310482	09/26/2013	09/27/13 06:35	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>33 - 147</i>		B310482	09/26/2013	09/27/13 06:35	S4



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1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID L13-S7.5-W20-1-2

Lab ID: 1302977-29

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	11	1.0	NA	1	B310482	09/26/2013	09/27/13 03:30	
ORO	34	1.0	NA	1	B310482	09/26/2013	09/27/13 03:30	
<i>Surrogate: p-Terphenyl</i>	<i>72.0 %</i>		<i>33 - 147</i>		B310482	09/26/2013	<i>09/27/13 03:30</i>	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002
Report To : Peter Sims
Reported : 09/27/2013

Client Sample ID C1-3-4
Lab ID: 1302977-32

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B310483	09/26/2013	09/27/13 10:17	
Arsenic	3.2	1.0	NA	1	B310483	09/26/2013	09/27/13 10:17	
Barium	95	1.0	NA	1	B310483	09/26/2013	09/27/13 10:17	
Beryllium	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:17	
Cadmium	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:17	
Chromium	25	1.0	NA	1	B310483	09/26/2013	09/27/13 10:17	
Cobalt	5.6	1.0	NA	1	B310483	09/26/2013	09/27/13 10:17	
Copper	12	2.0	NA	1	B310483	09/26/2013	09/27/13 10:17	
Lead	7.1	1.0	NA	1	B310483	09/26/2013	09/27/13 10:17	
Molybdenum	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:17	
Nickel	31	1.0	NA	1	B310483	09/26/2013	09/27/13 10:17	
Selenium	1.6	1.0	NA	1	B310483	09/26/2013	09/27/13 10:17	
Silver	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:17	
Thallium	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:17	
Vanadium	19	1.0	NA	1	B310483	09/26/2013	09/27/13 10:17	
Zinc	30	1.0	NA	1	B310483	09/26/2013	09/27/13 10:17	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B310484	09/26/2013	09/26/13 13:11	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: DP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B310449	09/26/2013	09/26/13 15:02	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>89.8 %</i>		<i>54 - 150</i>		B310449	09/26/2013	<i>09/26/13 15:02</i>	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5.7	1.0	NA	1	B310482	09/26/2013	09/27/13 01:50	
ORO	9.8	1.0	NA	1	B310482	09/26/2013	09/27/13 01:50	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID C1-3-4

Lab ID: 1302977-32

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: p-Terphenyl</i>	87.7 %		33 - 147		B310482	09/26/2013	09/27/13 01:50	

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
4,4'-DDE	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
4,4'-DDT	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
Aldrin	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
alpha-BHC	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
alpha-Chlordane	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
beta-BHC	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
Chlordane	ND	8.5	NA	1	B310490	09/26/2013	09/26/13 18:17	
delta-BHC	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
Dieldrin	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
Endosulfan I	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
Endosulfan II	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
Endosulfan sulfate	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
Endrin	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
Endrin aldehyde	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
Endrin ketone	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
gamma-BHC	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
gamma-Chlordane	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
Heptachlor	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
Heptachlor epoxide	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
Methoxychlor	ND	5.0	NA	1	B310490	09/26/2013	09/26/13 18:17	
Toxaphene	ND	50	NA	1	B310490	09/26/2013	09/26/13 18:17	
<i>Surrogate: Decachlorobiphenyl</i>	82.7 %		32 - 113		B310490	09/26/2013	09/26/13 18:17	
<i>Surrogate: Tetrachloro-m-xylene</i>	80.9 %		32 - 101		B310490	09/26/2013	09/26/13 18:17	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID C1-3-4

Lab ID: 1302977-32

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,1-Dichloroethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,1-Dichloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,1-Dichloropropene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,2-Dibromoethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,2-Dichloroethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,2-Dichloropropane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,3-Dichloropropane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
2,2-Dichloropropane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
2-Chlorotoluene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
4-Chlorotoluene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
4-Isopropyltoluene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Benzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Bromobenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Bromochloromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Bromodichloromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Bromoform	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Bromomethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Carbon disulfide	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Carbon tetrachloride	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Chlorobenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Chloroethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Chloroform	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Chloromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID C1-3-4

Lab ID: 1302977-32

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Di-isopropyl ether	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Dibromochloromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Dibromomethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Dichlorodifluoromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Ethyl Acetate	ND	50	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Ethyl Ether	ND	50	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Ethylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Freon-113	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Hexachlorobutadiene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Isopropylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
m,p-Xylene	ND	10	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Methylene chloride	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
MTBE	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
n-Butylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
n-Propylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Naphthalene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
o-Xylene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
sec-Butylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Styrene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
tert-Amyl methyl ether	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
tert-Butanol	ND	100	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
tert-Butylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Tetrachloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Toluene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Trichloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Trichlorofluoromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Vinyl acetate	ND	50	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
Vinyl chloride	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:06	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>124 %</i>		<i>70 - 130</i>		B3I0474	09/26/2013	<i>09/26/13 13:06</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>90.7 %</i>		<i>70 - 130</i>		B3I0474	09/26/2013	<i>09/26/13 13:06</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>127 %</i>		<i>70 - 130</i>		B3I0474	09/26/2013	<i>09/26/13 13:06</i>	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID C1-3-4

Lab ID: 1302977-32

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>104 %</i>		<i>70 - 130</i>		B310474	09/26/2013	09/26/13 13:06	



Certificate of Analysis

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Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID C1-7-8

Lab ID: 1302977-33

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result	PQL	MDL	Dilution	Batch	Prepared	Date/Time	Notes
	(mg/kg)	(mg/kg)	(mg/kg)				Analyzed	
Antimony	ND	2.0	NA	1	B310483	09/26/2013	09/27/13 10:18	
Arsenic	2.5	1.0	NA	1	B310483	09/26/2013	09/27/13 10:18	
Barium	68	1.0	NA	1	B310483	09/26/2013	09/27/13 10:18	
Beryllium	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:18	
Cadmium	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:18	
Chromium	25	1.0	NA	1	B310483	09/26/2013	09/27/13 10:18	
Cobalt	4.1	1.0	NA	1	B310483	09/26/2013	09/27/13 10:18	
Copper	11	2.0	NA	1	B310483	09/26/2013	09/27/13 10:18	
Lead	3.0	1.0	NA	1	B310483	09/26/2013	09/27/13 10:18	
Molybdenum	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:18	
Nickel	24	1.0	NA	1	B310483	09/26/2013	09/27/13 10:18	
Selenium	1.4	1.0	NA	1	B310483	09/26/2013	09/27/13 10:18	
Silver	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:18	
Thallium	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:18	
Vanadium	17	1.0	NA	1	B310483	09/26/2013	09/27/13 10:18	
Zinc	24	1.0	NA	1	B310483	09/26/2013	09/27/13 10:18	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result	PQL	MDL	Dilution	Batch	Prepared	Date/Time	Notes
	(mg/kg)	(mg/kg)	(mg/kg)				Analyzed	
Mercury	ND	0.10	NA	1	B310484	09/26/2013	09/26/13 13:13	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: DP

Analyte	Result	PQL	MDL	Dilution	Batch	Prepared	Date/Time	Notes
	(mg/kg)	(mg/kg)	(mg/kg)				Analyzed	
Gasoline Range Organics	ND	1.0	NA	1	B310449	09/26/2013	09/26/13 15:18	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>103 %</i>		<i>54 - 150</i>		B310449	09/26/2013	<i>09/26/13 15:18</i>	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result	PQL	MDL	Dilution	Batch	Prepared	Date/Time	Notes
	(mg/kg)	(mg/kg)	(mg/kg)				Analyzed	
DRO	5.1	1.0	NA	1	B310482	09/26/2013	09/27/13 00:42	
ORO	5.9	1.0	NA	1	B310482	09/26/2013	09/27/13 00:42	



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Reported : 09/27/2013

Client Sample ID C1-7-8

Lab ID: 1302977-33

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: p-Terphenyl</i>	56.0 %	33 - 147			B310482	09/26/2013	09/27/13 00:42	

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
4,4'-DDE	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
4,4'-DDT	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
Aldrin	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
alpha-BHC	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
alpha-Chlordane	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
beta-BHC	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
Chlordane	ND	8.5	NA	1	B310490	09/26/2013	09/26/13 18:30	
delta-BHC	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
Dieldrin	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
Endosulfan I	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
Endosulfan II	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
Endosulfan sulfate	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
Endrin	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
Endrin aldehyde	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
Endrin ketone	ND	2.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
gamma-BHC	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
gamma-Chlordane	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
Heptachlor	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
Heptachlor epoxide	ND	1.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
Methoxychlor	ND	5.0	NA	1	B310490	09/26/2013	09/26/13 18:30	
Toxaphene	ND	50	NA	1	B310490	09/26/2013	09/26/13 18:30	
<i>Surrogate: Decachlorobiphenyl</i>	94.3 %	32 - 113			B310490	09/26/2013	09/26/13 18:30	
<i>Surrogate: Tetrachloro-m-xylene</i>	95.6 %	32 - 101			B310490	09/26/2013	09/26/13 18:30	



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Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID C1-7-8

Lab ID: 1302977-33

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,1-Dichloroethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,1-Dichloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,1-Dichloropropene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,2-Dibromoethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,2-Dichloroethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,2-Dichloropropane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,3-Dichloropropane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
2,2-Dichloropropane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
2-Chlorotoluene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
4-Chlorotoluene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
4-Isopropyltoluene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Benzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Bromobenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Bromochloromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Bromodichloromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Bromoform	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Bromomethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Carbon disulfide	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Carbon tetrachloride	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Chlorobenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Chloroethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Chloroform	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Chloromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	



Certificate of Analysis

Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002
Report To : Peter Sims
Reported : 09/27/2013

Client Sample ID C1-7-8

Lab ID: 1302977-33

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Di-isopropyl ether	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Dibromochloromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Dibromomethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Dichlorodifluoromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Ethyl Acetate	ND	50	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Ethyl Ether	ND	50	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Ethylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Freon-113	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Hexachlorobutadiene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Isopropylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
m,p-Xylene	ND	10	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Methylene chloride	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
MTBE	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
n-Butylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
n-Propylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Naphthalene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
o-Xylene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
sec-Butylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Styrene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
tert-Amyl methyl ether	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
tert-Butanol	ND	100	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
tert-Butylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Tetrachloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Toluene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Trichloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Trichlorofluoromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Vinyl acetate	ND	50	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
Vinyl chloride	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 13:44	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>127 %</i>		<i>70 - 130</i>		B3I0474	09/26/2013	<i>09/26/13 13:44</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>90.4 %</i>		<i>70 - 130</i>		B3I0474	09/26/2013	<i>09/26/13 13:44</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>130 %</i>		<i>70 - 130</i>		B3I0474	09/26/2013	<i>09/26/13 13:44</i>	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID C1-7-8

Lab ID: 1302977-33

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>102 %</i>		<i>70 - 130</i>		B310474	09/26/2013	09/26/13 13:44	



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1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID U1-3-4

Lab ID: 1302977-34

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B310483	09/26/2013	09/27/13 10:20	
Arsenic	2.8	1.0	NA	1	B310483	09/26/2013	09/27/13 10:20	
Barium	110	1.0	NA	1	B310483	09/26/2013	09/27/13 10:20	
Beryllium	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:20	
Cadmium	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:20	
Chromium	25	1.0	NA	1	B310483	09/26/2013	09/27/13 10:20	
Cobalt	6.5	1.0	NA	1	B310483	09/26/2013	09/27/13 10:20	
Copper	13	2.0	NA	1	B310483	09/26/2013	09/27/13 10:20	
Lead	4.5	1.0	NA	1	B310483	09/26/2013	09/27/13 10:20	
Molybdenum	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:20	
Nickel	34	1.0	NA	1	B310483	09/26/2013	09/27/13 10:20	
Selenium	1.6	1.0	NA	1	B310483	09/26/2013	09/27/13 10:20	
Silver	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:20	
Thallium	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:20	
Vanadium	19	1.0	NA	1	B310483	09/26/2013	09/27/13 10:20	
Zinc	28	1.0	NA	1	B310483	09/26/2013	09/27/13 10:20	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B310484	09/26/2013	09/26/13 13:15	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: DP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B310449	09/26/2013	09/26/13 15:34	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>104 %</i>		<i>54 - 150</i>		B310449	09/26/2013	<i>09/26/13 15:34</i>	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	7.5	1.0	NA	1	B310482	09/26/2013	09/27/13 01:16	
ORO	9.2	1.0	NA	1	B310482	09/26/2013	09/27/13 01:16	



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1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID U1-3-4

Lab ID: 1302977-34

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: p-Terphenyl	60.6 %		33 - 147		B310482	09/26/2013	09/27/13 01:16	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,1,1-Trichloroethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,1,2-Trichloroethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,1-Dichloroethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,1-Dichloroethene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,1-Dichloropropene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,2,3-Trichloropropane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,2-Dibromoethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,2-Dichlorobenzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,2-Dichloroethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,2-Dichloropropane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,3-Dichlorobenzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,3-Dichloropropane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
1,4-Dichlorobenzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
2,2-Dichloropropane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
2-Chlorotoluene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
4-Chlorotoluene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
4-Isopropyltoluene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
Benzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
Bromobenzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
Bromochloromethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
Bromodichloromethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
Bromoform	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
Bromomethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID U1-3-4

Lab ID: 1302977-34

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Carbon disulfide	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Carbon tetrachloride	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Chlorobenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Chloroethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Chloroform	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Chloromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Di-isopropyl ether	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Dibromochloromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Dibromomethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Dichlorodifluoromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Ethyl Acetate	ND	50	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Ethyl Ether	ND	50	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Ethylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Freon-113	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Hexachlorobutadiene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Isopropylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
m,p-Xylene	ND	10	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Methylene chloride	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
MTBE	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
n-Butylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
n-Propylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Naphthalene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
o-Xylene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
sec-Butylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Styrene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
tert-Amyl methyl ether	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
tert-Butanol	ND	100	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
tert-Butylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Tetrachloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Toluene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	
Trichloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:02	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID U1-3-4

Lab ID: 1302977-34

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Trichlorofluoromethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
Vinyl acetate	ND	50	NA	1	B310474	09/26/2013	09/26/13 14:02	
Vinyl chloride	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:02	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>133 %</i>		<i>70 - 130</i>		B310474	09/26/2013	<i>09/26/13 14:02</i>	<i>S1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>87.6 %</i>		<i>70 - 130</i>		B310474	09/26/2013	<i>09/26/13 14:02</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>140 %</i>		<i>70 - 130</i>		B310474	09/26/2013	<i>09/26/13 14:02</i>	<i>S1</i>
<i>Surrogate: Toluene-d8</i>	<i>107 %</i>		<i>70 - 130</i>		B310474	09/26/2013	<i>09/26/13 14:02</i>	



Certificate of Analysis

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1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID U1-7-8

Lab ID: 1302977-35

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B310483	09/26/2013	09/27/13 10:21	
Arsenic	4.7	1.0	NA	1	B310483	09/26/2013	09/27/13 10:21	
Barium	130	1.0	NA	1	B310483	09/26/2013	09/27/13 10:21	
Beryllium	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:21	
Cadmium	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:21	
Chromium	30	1.0	NA	1	B310483	09/26/2013	09/27/13 10:21	
Cobalt	11	1.0	NA	1	B310483	09/26/2013	09/27/13 10:21	
Copper	15	2.0	NA	1	B310483	09/26/2013	09/27/13 10:21	
Lead	4.6	1.0	NA	1	B310483	09/26/2013	09/27/13 10:21	
Molybdenum	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:21	
Nickel	41	1.0	NA	1	B310483	09/26/2013	09/27/13 10:21	
Selenium	1.7	1.0	NA	1	B310483	09/26/2013	09/27/13 10:21	
Silver	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:21	
Thallium	ND	1.0	NA	1	B310483	09/26/2013	09/27/13 10:21	
Vanadium	24	1.0	NA	1	B310483	09/26/2013	09/27/13 10:21	
Zinc	29	1.0	NA	1	B310483	09/26/2013	09/27/13 10:21	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B310484	09/26/2013	09/26/13 13:17	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: DP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B310449	09/26/2013	09/26/13 15:50	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>101 %</i>		<i>54 - 150</i>		B310449	09/26/2013	<i>09/26/13 15:50</i>	

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	9.0	1.0	NA	1	B310482	09/26/2013	09/27/13 00:59	
ORO	9.4	1.0	NA	1	B310482	09/26/2013	09/27/13 00:59	



Certificate of Analysis

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Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID U1-7-8

Lab ID: 1302977-35

Diesel Range Organics by EPA 8015B (SGT)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: p-Terphenyl	45.2 %	33 - 147			B310482	09/26/2013	09/27/13 00:59	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,1,1-Trichloroethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,1,2-Trichloroethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,1-Dichloroethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,1-Dichloroethene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,1-Dichloropropene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,2,3-Trichloropropane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,2-Dibromoethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,2-Dichlorobenzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,2-Dichloroethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,2-Dichloropropane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,3-Dichlorobenzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,3-Dichloropropane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
1,4-Dichlorobenzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
2,2-Dichloropropane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
2-Chlorotoluene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
4-Chlorotoluene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
4-Isopropyltoluene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
Benzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
Bromobenzene	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
Bromochloromethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
Bromodichloromethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
Bromoform	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
Bromomethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID U1-7-8

Lab ID: 1302977-35

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Carbon disulfide	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Carbon tetrachloride	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Chlorobenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Chloroethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Chloroform	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Chloromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Di-isopropyl ether	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Dibromochloromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Dibromomethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Dichlorodifluoromethane	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Ethyl Acetate	ND	50	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Ethyl Ether	ND	50	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Ethylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Freon-113	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Hexachlorobutadiene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Isopropylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
m,p-Xylene	ND	10	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Methylene chloride	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
MTBE	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
n-Butylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
n-Propylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Naphthalene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
o-Xylene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
sec-Butylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Styrene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
tert-Amyl methyl ether	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
tert-Butanol	ND	100	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
tert-Butylbenzene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Tetrachloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Toluene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	
Trichloroethene	ND	5.0	NA	1	B3I0474	09/26/2013	09/26/13 14:21	



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1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Client Sample ID U1-7-8

Lab ID: 1302977-35

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Trichlorofluoromethane	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
Vinyl acetate	ND	50	NA	1	B310474	09/26/2013	09/26/13 14:21	
Vinyl chloride	ND	5.0	NA	1	B310474	09/26/2013	09/26/13 14:21	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>134 %</i>		<i>70 - 130</i>		B310474	09/26/2013	<i>09/26/13 14:21</i>	<i>S1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>92.7 %</i>		<i>70 - 130</i>		B310474	09/26/2013	<i>09/26/13 14:21</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>135 %</i>		<i>70 - 130</i>		B310474	09/26/2013	<i>09/26/13 14:21</i>	<i>S1</i>
<i>Surrogate: Toluene-d8</i>	<i>105 %</i>		<i>70 - 130</i>		B310474	09/26/2013	<i>09/26/13 14:21</i>	



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Project Number : Ashland Housing Project, 402090002
 Report To : Peter Sims
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QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B310483 - EPA 3050B

Blank (B310483-BLK1)

Prepared: 9/26/2013 Analyzed: 9/27/2013

Antimony	ND	2.0			NR
Arsenic	ND	1.0			NR
Barium	ND	1.0			NR
Beryllium	ND	1.0			NR
Cadmium	ND	1.0			NR
Chromium	ND	1.0			NR
Cobalt	ND	1.0			NR
Copper	ND	2.0			NR
Lead	ND	1.0			NR
Molybdenum	ND	1.0			NR
Nickel	ND	1.0			NR
Selenium	ND	1.0			NR
Silver	ND	1.0			NR
Thallium	ND	1.0			NR
Vanadium	ND	1.0			NR
Zinc	ND	1.0			NR

LCS (B310483-BS1)

Prepared: 9/26/2013 Analyzed: 9/27/2013

Antimony	46.5241	2.0	50.0000	93.0	80 - 120
Arsenic	46.0292	1.0	50.0000	92.1	80 - 120
Barium	49.1172	1.0	50.0000	98.2	80 - 120
Beryllium	49.0920	1.0	50.0000	98.2	80 - 120
Cadmium	47.6142	1.0	50.0000	95.2	80 - 120
Chromium	51.0794	1.0	50.0000	102	80 - 120
Cobalt	48.5844	1.0	50.0000	97.2	80 - 120
Copper	48.7320	2.0	50.0000	97.5	80 - 120
Lead	47.1344	1.0	50.0000	94.3	80 - 120
Molybdenum	49.9684	1.0	50.0000	99.9	80 - 120
Nickel	48.2028	1.0	50.0000	96.4	80 - 120
Selenium	43.5457	1.0	50.0000	87.1	80 - 120
Silver	46.0835	1.0	50.0000	92.2	80 - 120
Thallium	49.1374	1.0	50.0000	98.3	80 - 120
Vanadium	47.0370	1.0	50.0000	94.1	80 - 120
Zinc	45.7763	1.0	50.0000	91.6	80 - 120

Matrix Spike (B310483-MS1)

Source: 1302972-02

Prepared: 9/26/2013 Analyzed: 9/27/2013

Antimony	87.7526	2.0	125.000	0.397188	69.9	21 - 109
Arsenic	103.360	1.0	125.000	2.41514	80.8	55 - 102



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Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B3I0483 - EPA 3050B (continued)

Matrix Spike (B3I0483-MS1) - Continued

Source: 1302972-02

Prepared: 9/26/2013 Analyzed: 9/27/2013

Barium	164.826	1.0	125.000	64.6826	80.1	40 - 130
Beryllium	105.633	1.0	125.000	0.404217	84.2	60 - 104
Cadmium	95.5914	1.0	125.000	ND	76.5	52 - 100
Chromium	118.746	1.0	125.000	12.5946	84.9	53 - 113
Cobalt	102.429	1.0	125.000	5.49713	77.5	53 - 104
Copper	128.697	2.0	125.000	17.6612	88.8	51 - 122
Lead	98.7432	1.0	125.000	3.30865	76.3	51 - 106
Molybdenum	104.572	1.0	125.000	0.331157	83.4	55 - 103
Nickel	104.478	1.0	125.000	8.19834	77.0	48 - 112
Selenium	97.8242	1.0	125.000	1.84238	76.8	53 - 104
Silver	108.273	1.0	125.000	ND	86.6	61 - 109
Thallium	94.4582	1.0	125.000	ND	75.6	44 - 103
Vanadium	125.508	1.0	125.000	24.2934	81.0	55 - 115
Zinc	124.749	1.0	125.000	29.2227	76.4	24 - 130

Matrix Spike Dup (B3I0483-MSD1)

Source: 1302972-02

Prepared: 9/26/2013 Analyzed: 9/27/2013

Antimony	86.4846	2.0	125.000	0.397188	68.9	21 - 109	1.46	20
Arsenic	101.301	1.0	125.000	2.41514	79.1	55 - 102	2.01	20
Barium	158.847	1.0	125.000	64.6826	75.3	40 - 130	3.69	20
Beryllium	103.552	1.0	125.000	0.404217	82.5	60 - 104	1.99	20
Cadmium	92.6550	1.0	125.000	ND	74.1	52 - 100	3.12	20
Chromium	115.337	1.0	125.000	12.5946	82.2	53 - 113	2.91	20
Cobalt	99.9764	1.0	125.000	5.49713	75.6	53 - 104	2.42	20
Copper	124.193	2.0	125.000	17.6612	85.2	51 - 122	3.56	20
Lead	96.8554	1.0	125.000	3.30865	74.8	51 - 106	1.93	20
Molybdenum	102.067	1.0	125.000	0.331157	81.4	55 - 103	2.42	20
Nickel	101.833	1.0	125.000	8.19834	74.9	48 - 112	2.56	20
Selenium	95.7308	1.0	125.000	1.84238	75.1	53 - 104	2.16	20
Silver	105.583	1.0	125.000	ND	84.5	61 - 109	2.52	20
Thallium	92.5088	1.0	125.000	ND	74.0	44 - 103	2.09	20
Vanadium	122.897	1.0	125.000	24.2934	78.9	55 - 115	2.10	20
Zinc	120.851	1.0	125.000	29.2227	73.3	24 - 130	3.17	20



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Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B3I0484 - EPA 7471									
Blank (B3I0484-BLK1)									
				Prepared: 9/26/2013 Analyzed: 9/26/2013					
Mercury	ND	0.10			NR				
LCS (B3I0484-BS1)									
				Prepared: 9/26/2013 Analyzed: 9/26/2013					
Mercury	0.707086	0.10	0.833333		84.9	80 - 120			
Matrix Spike (B3I0484-MS1)									
				Prepared: 9/26/2013 Analyzed: 9/26/2013					
Mercury	0.687684	0.10	0.847458	0.012544	79.7	70 - 130			
Matrix Spike Dup (B3I0484-MSD1)									
				Prepared: 9/26/2013 Analyzed: 9/26/2013					
Mercury	0.665923	0.10	0.847458	0.012544	77.1	70 - 130	3.22	20	
Post Spike (B3I0484-PS1)									
				Prepared: 9/26/2013 Analyzed: 9/26/2013					
Mercury	0.004168		5.00000E-3	0.000151	80.4	85 - 115			M1



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Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B310449 - GCVOAS									
Blank (B310449-BLK1)					Prepared: 9/26/2013 Analyzed: 9/26/2013				
Gasoline Range Organics	ND	1.0			NR				
T/R Hydrocarbons: C4-C12	ND	1.0			NR				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.2015</i>		<i>0.200000</i>		<i>101</i>	<i>54 - 150</i>			
LCS (B310449-BS1)					Prepared: 9/26/2013 Analyzed: 9/26/2013				
Gasoline Range Organics	5.00800	1.0	5.00000		100	70 - 130			
T/R Hydrocarbons: C4-C12	4.86000	1.0	5.00000		97.2	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.2091</i>		<i>0.200000</i>		<i>105</i>	<i>54 - 150</i>			
LCS Dup (B310449-BSD1)					Prepared: 9/26/2013 Analyzed: 9/26/2013				
Gasoline Range Organics	5.18400	1.0	5.00000		104	70 - 130	3.45	20	
T/R Hydrocarbons: C4-C12	5.15900	1.0	5.00000		103	70 - 130	5.97	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.2013</i>		<i>0.200000</i>		<i>101</i>	<i>54 - 150</i>			
Duplicate (B310449-DUP1)					Source: 1302978-01		Prepared: 9/26/2013 Analyzed: 9/26/2013		
Gasoline Range Organics	ND	1.0		ND	NR			20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.2110</i>		<i>0.200000</i>		<i>105</i>	<i>54 - 150</i>			
Matrix Spike (B310449-MS1)					Source: 1302969-70		Prepared: 9/26/2013 Analyzed: 9/26/2013		
Gasoline Range Organics	3.50000	1.0	5.00000	ND	70.0	42 - 125			
T/R Hydrocarbons: C4-C12	3.43400	1.0	5.00000	ND	68.7	42 - 125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.2217</i>		<i>0.200000</i>		<i>111</i>	<i>54 - 150</i>			
Matrix Spike Dup (B310449-MSD1)					Source: 1302969-70		Prepared: 9/26/2013 Analyzed: 9/26/2013		
Gasoline Range Organics	3.41800	1.0	5.00000	ND	68.4	42 - 125	2.37	20	
T/R Hydrocarbons: C4-C12	3.35500	1.0	5.00000	ND	67.1	42 - 125	2.33	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.2060</i>		<i>0.200000</i>		<i>103</i>	<i>54 - 150</i>			



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Project Number : Ashland Housing Project, 402090002
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 Reported : 09/27/2013

Diesel Range Organics by EPA 8015B (SGT) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B310482 - GCSEMI_DRO_SOIL_LL									
Blank (B310482-BLK1)					Prepared: 9/26/2013 Analyzed: 9/26/2013				
DRO	ND	1.0			NR				
ORO	ND	1.0			NR				
<i>Surrogate: p-Terphenyl</i>	2.339		2.66667		87.7	33 - 147			
LCS (B310482-BS1)					Prepared: 9/26/2013 Analyzed: 9/26/2013				
DRO	32.7380	1.0	33.3333		98.2	43 - 120			
<i>Surrogate: p-Terphenyl</i>	2.025		2.66667		75.9	33 - 147			
Matrix Spike (B310482-MS1)					Source: 1302977-01 Prepared: 9/26/2013 Analyzed: 9/27/2013				
DRO	29.8627	1.0	33.3333	7.70633	66.5	17 - 112			
<i>Surrogate: p-Terphenyl</i>	1.571		2.66667		58.9	33 - 147			
Matrix Spike Dup (B310482-MSD1)					Source: 1302977-01 Prepared: 9/26/2013 Analyzed: 9/27/2013				
DRO	28.5947	1.0	33.3333	7.70633	62.7	17 - 112	4.34	20	
<i>Surrogate: p-Terphenyl</i>	1.379		2.66667		51.7	33 - 147			



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Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B3I0490 - GCSEMI_PCB/PEST

Blank (B3I0490-BLK1)

Prepared: 9/26/2013 Analyzed: 9/26/2013

4,4'-DDD	ND	2.0			NR				
4,4'-DDD [2C]	ND	2.0			NR				
4,4'-DDE	ND	2.0			NR				
4,4'-DDE [2C]	ND	2.0			NR				
4,4'-DDT	ND	2.0			NR				
4,4'-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B3I0490 - GCSEMI_PCB/PEST (continued)

Blank (B3I0490-BLK1) - Continued

Prepared: 9/26/2013 Analyzed: 9/26/2013

Methoxychlor	ND	5.0			NR				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
<i>Surrogate: Decachlorobiphenyl</i>	<i>13.04</i>		<i>16.6667</i>		<i>78.2</i>	<i>32 - 113</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>13.42</i>		<i>16.6667</i>		<i>80.5</i>	<i>32 - 113</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>13.27</i>		<i>16.6667</i>		<i>79.6</i>	<i>32 - 101</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>12.77</i>		<i>16.6667</i>		<i>76.6</i>	<i>32 - 101</i>			

LCS (B3I0490-BS1)

Prepared: 9/26/2013 Analyzed: 9/26/2013

4,4'-DDT	11.4623	2.0	16.6667		68.8	60 - 108			
4,4'-DDT [2C]	14.0145	2.0	16.6667		84.1	60 - 108			
Aldrin	13.4395	1.0	16.6667		80.6	57 - 111			
Aldrin [2C]	13.3538	1.0	16.6667		80.1	57 - 111			
Dieldrin	13.0340	2.0	16.6667		78.2	61 - 106			
Dieldrin [2C]	13.3800	2.0	16.6667		80.3	61 - 106			
Endrin	13.2143	2.0	16.6667		79.3	57 - 97			
Endrin [2C]	13.8742	2.0	16.6667		83.2	57 - 97			
gamma-BHC	13.8595	1.0	16.6667		83.2	61 - 109			
gamma-BHC [2C]	13.7512	1.0	16.6667		82.5	61 - 109			
Heptachlor	15.1585	1.0	16.6667		91.0	58 - 115			
Heptachlor [2C]	17.9993	1.0	16.6667		108	58 - 115			
<i>Surrogate: Decachlorobiphenyl</i>	<i>12.85</i>		<i>16.6667</i>		<i>77.1</i>	<i>32 - 113</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>13.38</i>		<i>16.6667</i>		<i>80.3</i>	<i>32 - 113</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>13.34</i>		<i>16.6667</i>		<i>80.1</i>	<i>32 - 101</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>13.01</i>		<i>16.6667</i>		<i>78.1</i>	<i>32 - 101</i>			

Matrix Spike (B3I0490-MS1)

Source: 1302977-33

Prepared: 9/26/2013 Analyzed: 9/26/2013

4,4'-DDT	15.8662	2.0	16.6667	ND	95.2	26 - 133			
4,4'-DDT [2C]	19.1463	2.0	16.6667	ND	115	26 - 133			
Aldrin	16.4440	1.0	16.6667	ND	98.7	38 - 119			
Aldrin [2C]	17.3290	1.0	16.6667	ND	104	38 - 119			
Dieldrin	15.7208	2.0	16.6667	ND	94.3	30 - 120			
Dieldrin [2C]	16.9252	2.0	16.6667	ND	102	30 - 120			
Endrin	16.2272	2.0	16.6667	ND	97.4	30 - 114			
Endrin [2C]	17.7073	2.0	16.6667	ND	106	30 - 114			
gamma-BHC	16.8837	1.0	16.6667	ND	101	31 - 122			
gamma-BHC [2C]	17.9848	1.0	16.6667	ND	108	31 - 122			
Heptachlor	19.9172	1.0	16.6667	ND	120	38 - 123			
Heptachlor [2C]	24.4745	1.0	16.6667	ND	147	38 - 123			M1



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Oakland, CA 94612

Project Number : Ashland Housing Project, 402090002

Report To : Peter Sims

Reported : 09/27/2013

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B3I0490 - GCSEMI_PCB/PEST (continued)

Matrix Spike (B3I0490-MS1) - Continued

Source: 1302977-33

Prepared: 9/26/2013 Analyzed: 9/26/2013

Surrogate: Decachlorobiphenyl	15.52		16.6667		93.1	32 - 113		
Surrogate: Decachlorobiphenyl [2C]	13.35		16.6667		80.1	32 - 113		
Surrogate: Tetrachloro-m-xylene	16.07		16.6667		96.4	32 - 101		
Surrogate: Tetrachloro-m-xylene [2C]	16.20		16.6667		97.2	32 - 101		

Matrix Spike Dup (B3I0490-MSD1)

Source: 1302977-33

Prepared: 9/26/2013 Analyzed: 9/26/2013

4,4'-DDT	15.8915	2.0	16.6667	ND	95.3	26 - 133	0.160	20
4,4'-DDT [2C]	20.1387	2.0	16.6667	ND	121	26 - 133	5.05	20
Aldrin	16.7273	1.0	16.6667	ND	100	38 - 119	1.71	20
Aldrin [2C]	18.3330	1.0	16.6667	ND	110	38 - 119	5.63	20
Dieldrin	16.2002	2.0	16.6667	ND	97.2	30 - 120	3.00	20
Dieldrin [2C]	17.6083	2.0	16.6667	ND	106	30 - 120	3.96	20
Endrin	16.8118	2.0	16.6667	ND	101	30 - 114	3.54	20
Endrin [2C]	18.5350	2.0	16.6667	ND	111	30 - 114	4.57	20
gamma-BHC	17.2417	1.0	16.6667	ND	103	31 - 122	2.10	20
gamma-BHC [2C]	18.6280	1.0	16.6667	ND	112	31 - 122	3.51	20
Heptachlor	20.3543	1.0	16.6667	ND	122	38 - 123	2.17	20
Heptachlor [2C]	25.7767	1.0	16.6667	ND	155	38 - 123	5.18	20 M1
Surrogate: Decachlorobiphenyl	16.79		16.6667		101	32 - 113		
Surrogate: Decachlorobiphenyl [2C]	13.98		16.6667		83.9	32 - 113		
Surrogate: Tetrachloro-m-xylene	16.34		16.6667		98.0	32 - 101		
Surrogate: Tetrachloro-m-xylene [2C]	16.57		16.6667		99.4	32 - 101		



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Reported : 09/27/2013

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B3I0474 - MSVOAS

Blank (B3I0474-BLK1)

Prepared: 9/26/2013 Analyzed: 9/26/2013

1,1,1,2-Tetrachloroethane	ND	5.0			NR
1,1,1-Trichloroethane	ND	5.0			NR
1,1,2,2-Tetrachloroethane	ND	5.0			NR
1,1,2-Trichloroethane	ND	5.0			NR
1,1-Dichloroethane	ND	5.0			NR
1,1-Dichloroethene	ND	5.0			NR
1,1-Dichloropropene	ND	5.0			NR
1,2,3-Trichloropropane	ND	5.0			NR
1,2,3-Trichlorobenzene	ND	5.0			NR
1,2,4-Trichlorobenzene	ND	5.0			NR
1,2,4-Trimethylbenzene	ND	5.0			NR
1,2-Dibromo-3-chloropropane	ND	10			NR
1,2-Dibromoethane	ND	5.0			NR
1,2-Dichlorobenzene	ND	5.0			NR
1,2-Dichloroethane	ND	5.0			NR
1,2-Dichloropropane	ND	5.0			NR
1,3,5-Trimethylbenzene	ND	5.0			NR
1,3-Dichlorobenzene	ND	5.0			NR
1,3-Dichloropropane	ND	5.0			NR
1,4-Dichlorobenzene	ND	5.0			NR
2,2-Dichloropropane	ND	5.0			NR
2-Chlorotoluene	ND	5.0			NR
4-Chlorotoluene	ND	5.0			NR
4-Isopropyltoluene	ND	5.0			NR
Benzene	ND	5.0			NR
Bromobenzene	ND	5.0			NR
Bromochloromethane	ND	5.0			NR
Bromodichloromethane	ND	5.0			NR
Bromoform	ND	5.0			NR
Bromomethane	ND	5.0			NR
Carbon disulfide	ND	5.0			NR
Carbon tetrachloride	ND	5.0			NR
Chlorobenzene	ND	5.0			NR
Chloroethane	ND	5.0			NR
Chloroform	ND	5.0			NR
Chloromethane	ND	5.0			NR
cis-1,2-Dichloroethene	ND	5.0			NR
cis-1,3-Dichloropropene	ND	5.0			NR
Di-isopropyl ether	ND	5.0			NR
Dibromochloromethane	ND	5.0			NR



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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B3I0474 - MSVOAS (continued)

Blank (B3I0474-BLK1) - Continued

Prepared: 9/26/2013 Analyzed: 9/26/2013

Dibromomethane	ND	5.0			NR				
Dichlorodifluoromethane	ND	5.0			NR				
Ethyl Acetate	ND	50			NR				
Ethyl Ether	ND	50			NR				
Ethyl tert-butyl ether	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
Freon-113	ND	5.0			NR				
Hexachlorobutadiene	ND	5.0			NR				
Isopropylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
Methylene chloride	ND	5.0			NR				
MTBE	ND	5.0			NR				
n-Butylbenzene	ND	5.0			NR				
n-Propylbenzene	ND	5.0			NR				
Naphthalene	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
sec-Butylbenzene	ND	5.0			NR				
Styrene	ND	5.0			NR				
tert-Amyl methyl ether	ND	5.0			NR				
tert-Butanol	ND	100			NR				
tert-Butylbenzene	ND	5.0			NR				
Tetrachloroethene	ND	5.0			NR				
Toluene	ND	5.0			NR				
trans-1,2-Dichloroethene	ND	5.0			NR				
trans-1,3-Dichloropropene	ND	5.0			NR				
Trichloroethene	ND	5.0			NR				
Trichlorofluoromethane	ND	5.0			NR				
Vinyl acetate	ND	50			NR				
Vinyl chloride	ND	5.0			NR				

<i>Surrogate: 1,2-Dichloroethane-d4</i>	59.35		50.0000		119	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	47.38		50.0000		94.8	70 - 130			
<i>Surrogate: Dibromofluoromethane</i>	60.49		50.0000		121	70 - 130			
<i>Surrogate: Toluene-d8</i>	51.03		50.0000		102	70 - 130			

LCS (B3I0474-BS1)

Prepared: 9/26/2013 Analyzed: 9/26/2013

1,1-Dichloroethene	48.4300	5.0	50.0000		96.9	70 - 130			
Benzene	109.960	5.0	100.000		110	70 - 130			
Chlorobenzene	58.0000	5.0	50.0000		116	70 - 130			
MTBE	53.3700	5.0	50.0000		107	70 - 130			
Toluene	115.640	5.0	100.000		116	70 - 130			



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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B3I0474 - MSVOAS (continued)

LCS (B3I0474-BS1) - Continued

Prepared: 9/26/2013 Analyzed: 9/26/2013

Trichloroethene	53.7600	5.0	50.0000		108	70 - 130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>53.44</i>		<i>50.0000</i>		<i>107</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.11</i>		<i>50.0000</i>		<i>98.2</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>57.12</i>		<i>50.0000</i>		<i>114</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.89</i>		<i>50.0000</i>		<i>106</i>	<i>70 - 130</i>			

LCS Dup (B3I0474-BSD1)

Prepared: 9/26/2013 Analyzed: 9/26/2013

1,1-Dichloroethene	46.5100	5.0	50.0000		93.0	70 - 130	4.04	20	
Benzene	107.940	5.0	100.000		108	70 - 130	1.85	20	
Chlorobenzene	58.1200	5.0	50.0000		116	70 - 130	0.207	20	
MTBE	53.9300	5.0	50.0000		108	70 - 130	1.04	20	
Toluene	111.440	5.0	100.000		111	70 - 130	3.70	20	
Trichloroethene	52.7200	5.0	50.0000		105	70 - 130	1.95	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>53.92</i>		<i>50.0000</i>		<i>108</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.45</i>		<i>50.0000</i>		<i>98.9</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>57.14</i>		<i>50.0000</i>		<i>114</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.42</i>		<i>50.0000</i>		<i>103</i>	<i>70 - 130</i>			



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Reported : 09/27/2013

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3I0474 - MSVOAS (continued)

Duplicate (B3I0474-DUP1)

Source: 1302977-32

Prepared: 9/26/2013 Analyzed: 9/26/2013

1,1-Dichloroethene	ND	5.0		ND	NR			20	
Benzene	ND	5.0		ND	NR			20	
Chlorobenzene	ND	5.0		ND	NR			20	
MTBE	ND	5.0		ND	NR			20	
Toluene	ND	5.0		ND	NR			20	
Trichloroethene	ND	5.0		ND	NR			20	
<hr/>									
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>62.91</i>		<i>50.0000</i>		<i>126</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>46.28</i>		<i>50.0000</i>		<i>92.6</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>63.74</i>		<i>50.0000</i>		<i>127</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.08</i>		<i>50.0000</i>		<i>104</i>	<i>70 - 130</i>			



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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3I0474 - MSVOAS (continued)

Matrix Spike (B3I0474-MS1)

Source: 1302977-32

Prepared: 9/26/2013 Analyzed: 9/26/2013

1,1-Dichloroethene	46.3100	5.0	50.0000	ND	92.6	70 - 130			
Benzene	106.800	5.0	100.000	ND	107	70 - 130			
Chlorobenzene	59.6000	5.0	50.0000	ND	119	70 - 130			
MTBE	49.0700	5.0	50.0000	ND	98.1	70 - 130			
Toluene	117.720	5.0	100.000	ND	118	70 - 130			
Trichloroethene	54.2100	5.0	50.0000	ND	108	70 - 130			
<hr/>									
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>53.48</i>		<i>50.0000</i>		<i>107</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.73</i>		<i>50.0000</i>		<i>99.5</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>57.04</i>		<i>50.0000</i>		<i>114</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>53.52</i>		<i>50.0000</i>		<i>107</i>	<i>70 - 130</i>			



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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B3I0474 - MSVOAS (continued)

Matrix Spike Dup (B3I0474-MSD1)

Source: 1302977-32

Prepared: 9/26/2013 Analyzed: 9/26/2013

1,1-Dichloroethene	41.6800	5.0	50.0000	ND	83.4	70 - 130	10.5	20	
Benzene	95.2500	5.0	100.000	ND	95.2	70 - 130	11.4	20	
Chlorobenzene	48.6600	5.0	50.0000	ND	97.3	70 - 130	20.2	20	R2
MTBE	45.3100	5.0	50.0000	ND	90.6	70 - 130	7.97	20	
Toluene	98.9100	5.0	100.000	ND	98.9	70 - 130	17.4	20	
Trichloroethene	46.7800	5.0	50.0000	ND	93.6	70 - 130	14.7	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>54.34</i>		<i>50.0000</i>		<i>109</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.46</i>		<i>50.0000</i>		<i>101</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>57.30</i>		<i>50.0000</i>		<i>115</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.46</i>		<i>50.0000</i>		<i>105</i>	<i>70 - 130</i>			



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Reported : 09/27/2013

Notes and Definitions

S4	Surrogate was diluted out.
S1	Surrogate recovery was above laboratory acceptance limit. No target analyte was detected in the sample.
R2	RPD value outside acceptance criteria due to possible matrix interference.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only		ATLCOC Ver: 20130715				
Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
<input type="checkbox"/> Client	<input type="checkbox"/> CHILLED	<input type="checkbox"/>	<input type="checkbox"/>	5. # OF SAMPLES MATCH COC	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> FedEx	<input type="checkbox"/> HEADSPACE (VOA)	<input type="checkbox"/>	<input type="checkbox"/>	6. PRESERVED	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> GSO	<input type="checkbox"/> CONTAINER INTACT	<input type="checkbox"/>	<input type="checkbox"/>	7. COOLER TEMP, deg C:		
<input type="checkbox"/> Other:	<input type="checkbox"/> SEALED	<input type="checkbox"/>	<input type="checkbox"/>			

CUSTOMER	Company: <u>Ninyo & Moore</u>	Address: <u>1956 Webster St # 400</u>	Tel: <u>510 343 3000</u>	
	Attn: <u>Peter Sims</u>	City: <u>Oakland</u>	State: <u>CA</u> Zip: <u>94612</u> Fax: <u>3001</u>	
	SEND REPORT TO: Email: <u>psims@ninyoandmoore.com</u>	SEND INVOICE TO: Email: <input type="checkbox"/> same as SEND REPORT TO		
	Company: <u>Same</u>			
Address: <u>Same</u>				
City: <u>Same</u>	State: <u>Same</u>	Zip: <u>Same</u>		

PROJECT SAMPLES	Project Name: <u>Ashland Housing Project</u>	Quote No:	Special Instructions/Comments:	Encircle or Write Requested Analysis										Encircle Sample Matrix				Container		QA/QC		
	Project No.: <u>402 090 002</u>	PO #:		8260 / 624 (Volatiles)	8015 (GRO)	8015 (DRO) + Motor oil / <u>silica gel cleanup</u>	8270 (Semi-volatiles)	8081 (Organochlorine Pesticides)	8082 (PCBs)	6010 / 7000 (Title 22 Metals)	TO-15	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	#	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pin; 5=Jar; 6=Redlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=AC; 5=Zn (Ac); 6=NaOH; 7=NA2S2O3	<input type="checkbox"/> Routine <input type="checkbox"/> Caltrans <input type="checkbox"/> Legal <input type="checkbox"/> RWQCCB <input type="checkbox"/> Level IV
	Sampler: <u>M. Terry</u>			ITEM	Lab No.	Sample Description	Date	Time														REMARKS
				1	1202A77 - 9	L13-S7.5-E20-0-1	9/25/13	0817														
			2	10	L13-S7.5-E20-1-2		0820															
			3	11	L13-S7.5-E20-2-3		0823															HOLD
			4	12	L13-S7.5-E20-3-4		0826															HOLD
			5	13	L13-S7.5-E30-0-1		0830															
			6	14	L13-S7.5-E30-1-2		0840															
			7	15	L13-S7.5-E30-2-3		0843															HOLD
			8	16	L13-S7.5-E30-3-4		0845															HOLD
			9																			
			10																			

TERMS

- Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
- Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
- The following turnaround time conditions apply:
TAT = 0: 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
TAT = 1: 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
TAT = 2: 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
TAT = 3: 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
TAT = 4: 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
TAT = 5: NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
- Weekend, holiday, after-hours work - ask for quote.
- Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab -- ask for quote.
- Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
- Electronic records maintained for five (5) years from report date.
- Hard copy reports will be disposed of after 45 calendar days from report date.
- Storage and Report Fees:
- Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$2/sample/month if extended storage or hold is requested.
- Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20/ sample/week if extended storage is requested.
- Hard copy and regenerated reports/EDDs: \$17.50 per hard copy report requested; \$50.00 per regenerated/reforma? ed report; \$35 per reprocessed EDD.
- Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
- Unanalyzed samples will incur a disposal fee of \$7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

M Terry Submitter Print Name
M Terry Signature

CUSTODY	Relinquished by: (Signature and Printed Name) <u>M Terry</u> <u>Melissa Terry</u>	Date: <u>9/25/13</u>	Time: <u>1455</u>	Received by: (Signature and Printed Name) <u>Jeff Siegfried</u>	Date: <u>9/25/13</u>	Time: <u>255</u>
	Relinquished by: (Signature and Printed Name) <u>Jeff Siegfried</u> <u>Jeff Siegfried</u>	Date: <u>9/25/13</u>	Time: <u>323pm</u>	Received by: (Signature and Printed Name) <u>GSD</u>	Date: <u>9/25/13</u>	Time: <u>323pm</u>
	Relinquished by: (Signature and Printed Name) <u>C. Smith</u>	Date: <u>9/25/13</u>	Time: <u>800</u>	Received by: (Signature and Printed Name) <u>C. Smith</u>	Date: <u>9/25/13</u>	Time: <u>800</u>

