Mr. Mark Detterman
Alameda County Environmental Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: Former Olympic Service Station
1436 Grant Avenue
San Lorenzo, California
ACEHD Case No. RO0000373, GeoTacker No. T0600102256

Dear Mr. Detterman:

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

Sincerely,
George and Frida Jaber 1989 Family Trust

Philip Jaber, Trustee

STRATUS
ENVIRONMENTAL, INC.

3330 Cameron Park Drive, Ste 550
Cameron Park, California 95682
(530) 676-6004 ~ Fax: (530) 676-6005

November 3, 2011
Project No. 2115-1436-01

Mr. Mark Detterman
Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: Dual Phase Extraction Pilot Test Report, Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, California (ACEHD Case No. RO0000373)

Dear Mr. Detterman:

Stratus Environmental, Inc. (Stratus) has prepared this *Dual Phase Extraction Pilot Test Report*, on behalf of Mr. Philip Jaber, for the Former Olympic Service Station (the site), located at 1436 Grant Avenue, San Lorenzo, California (Figure 1). Petroleum hydrocarbon impact has been identified in the soil and groundwater beneath the site. This report presents the results of dual phase extraction (DPE) feasibility testing performed at the site in June 2011.

The scope of the work discussed in this report was originally proposed in the *Feasibility Analysis/Interim Remedial Action Plan*[1] (FS/IRAP) and two associated addenda.[2,3] Combined, these documents proposed to assess the viability of using DPE and in-situ chemical oxidation (ISCO) by ozone injection to remediate petroleum hydrocarbon impact to the soil and groundwater beneath the site. The scope of work also included installation of an additional soil vapor sampling point to further evaluate soil vapor migration via a water line that transects the area of petroleum hydrocarbon impact. Alameda County Environmental Health Department (ACEHD) approved the proposed scope of work in a letter dated May 13, 2011.

Stratus installed the proposed DPE extraction wells, ozone injection wells, and soil vapor sampling point in May 2011; the 5-day DPE pilot text was completed in June 2011. This report presents data collected during installation of the remediation wells and implementation of the DPE pilot test. The ISCO pilot test was initiated in September 2011, and the results of the ISCO pilot test will be reported in a separate document.

[1] *Feasibility Analysis/Interim Remedial Action Plan*, Stratus Environmental, Inc., dated March 15, 2101.
[2] *Interim Remedial Action Plan Addendum*, Stratus Environmental, Inc., dated April 22, 2011.
[3] *Interim Remedial Action Plan Addendum 2*, Stratus Environmental, Inc., dated May 3, 2011.

SITE DESCRIPTION

The subject site is located on the southern corner of the intersection of Grant Avenue and Channel Street in San Lorenzo, California. The site was previously developed as an Olympic service station; it is currently operated as San Lorenzo Auto Repair. The current and former station facilities are shown on Figure 2.

The adjoining property to the southwest, south, and southeast is developed as a strip mall (Arroyo Center). Properties to the northwest (across Grant Avenue) are developed as single family detached residences, and the property to the northeast (across Channel Street) has been developed as multi-family housing units (apartments or condominiums). A parking lot and athletic fields for Arroyo High School are situated on property north of Grant Avenue, across the intersection.

SITE BACKGROUND

This description of the project background was developed from information contained in reports prepared by Reese Construction, Aqua Science Engineers, Inc. (ASE), and Conestoga-Rovers & Associates (CRA). Locations of the service station building, the former underground storage tanks (USTs), and the former dispenser islands are shown on Figure 2.

The former USTs and product dispensers were removed in 1998. Four groundwater monitoring wells (MW-1 through MW-4), four soil vapor sampling points (SV-1 through SV-4), and nineteen exploratory soil borings (BH-A through BH-C, B-1 through B-13, and B-13A through B-13C) were installed between 1999 and 2010. The locations of the wells, vapor sample points, and soil borings are shown on Figure 2. Historical groundwater monitoring, groundwater analytical, soil analytical, and soil vapor analytical data are summarized in tables included in Appendix A. Drilling and well construction details are summarized in Table 1.

UST Removal Activities

The former USTs were comprised of three gasoline USTs (10,000-gallon, 8,000-gallon, and 5,000-gallon) and one waste oil UST (250 gallons). The former gasoline USTs were located between the station building and Channel Street; the former waste oil UST was located behind the station building. Six fuel dispensers were situated on two dispenser islands located adjacent to Grant Avenue. The USTs, dispensers, and associated product piping were removed on July 10, 1998, by Reese Construction.[4] A total of eleven compliance soil samples were collected from the UST pits, the product piping trenches, and beneath the dispensers. Groundwater was encountered in the gasoline UST pit, and

[4] *Tank Closure Report*, Reese Construction, dated September 14, 1998.

on September 8, 1998, approximately 5,000 gallons of groundwater was pumped from the pit and transported off-site for disposal.[5] Soil and backfill material excavated during UST removal were sampled, and with approval of ACEHD, this material was utilized to backfill the excavations.[6]

Based on analytical results from samples collected during UST removal activities, additional excavation was performed at the waste oil UST pit and the northern dispenser island. The waste oil UST pit was deepened from 8 to 12 feet below ground surface (bgs), and the dispenser excavation was extended to 3.5 feet bgs. A confirmation soil sample was collected from the base of each excavation; hydrocarbons were reported in the sample from the base of the waste oil UST pit.[7]

Site Characterization Activities

Wells MW-1 through MW-3 were installed by ASE on September 24, 1999.[8] These wells were situated to evaluate groundwater conditions downgradient of the gasoline UST pit, the waste oil UST pit, and the dispenser islands. One soil sample from 10 feet bgs in each boring was submitted for analysis, and petroleum hydrocarbon impact was reported in all soil samples. Groundwater in the wells was measured at approximately 8 feet bgs. The wells were sampled on October 6, 1999, and petroleum hydrocarbon impact was reported in all three water samples.

To further assess the downgradient extent of petroleum hydrocarbon impact to soil and groundwater, ASE advanced three exploratory soil borings (BH-A through BH-C) on April 30, 2002.[9] The borings were advanced to 20 feet bgs, and were situated southwest of the subject site, on the adjacent shopping center property. One soil sample from 11.5 feet bgs and a groundwater sample from each boring were submitted for analysis. Petroleum hydrocarbon impact was reported in each of the soil and groundwater samples.

To further characterize the downgradient and lateral extent of petroleum hydrocarbon impact, and to evaluate if preferential pathways were influencing hydrocarbon migration, CRA advanced three exploratory soil borings on the subject property (B-1, B-2, and B-4), four additional soil borings on the shopping center property (B-3 and B-5 through B-7), and one boring in the sidewalk along Grant Avenue (B-8) on February 25 and 26, 2008.[10] CRA concluded that additional assessment was required to further characterize petroleum

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[5] *Report of Excavation Dewatering Activities*, Foss Environmental Services, dated September 21, 1998.
[6] *Stockpiled Soil Sampling Results*, Aqua Science Engineers, Inc., dated November 24, 1998.
[7] *Report Detailing Former Waste-Oil UST Overexcavation Activities*, Aqua Science Engineers, Inc., dated January 7, 1999.
[8] *Report of Soil and Groundwater Assessment*, Aqua Science Engineers, Inc., dated November 12, 1999.
[9] *Report of Soil and Groundwater Assessment*, Aqua Science Engineers, Inc., dated May 31, 2002.
[10] *Site Investigation, Preferential Pathway, and Workplan Report*, Conestoga-Rovers & Associates, dated April 29, 2008.

hydrocarbon impact east of the former UST pit (in Channel Street) and to the southwest, downgradient of the site (in Grant Avenue). This phase of the investigation also included a well search, and CRA concluded that it was unlikely that any of the identified wells would be impacted by petroleum hydrocarbons from the site. Finally, this phase of the investigation also included an evaluation of subsurface utilities in the site vicinity, and CRA concluded that the sanitary sewer lines in Grant Avenue and the storm drain in Channel Street were potential preferential pathways for hydrocarbon migration.

CRA completed additional site assessment work in 2010.[11] Five exploratory soil borings (B-9 through B-13) were installed in Grant Avenue to evaluate hydrocarbon concentrations in backfill material around the sanitary sewer lines, and to assess if these sewer lines were acting as preferential petroleum hydrocarbon migration pathways. An additional groundwater monitoring well (MW-4) was installed adjacent to the northern dispenser island to assess the groundwater impact identified earlier in boring B-1. Four soil vapor sampling probes (SV-1 through SV-4) were installed to assess the petroleum hydrocarbon concentrations in soil vapors. CRA concluded that the sanitary sewer lines in Grant Avenue may be acting as a preferential migration pathway for petroleum hydrocarbons dissolved in groundwater, that petroleum hydrocarbon concentrations in the soil vapor samples exceed applicable Environmental Screening Levels (ESLs),[12] and that the lateral and vertical extent of soil impact that exceeds applicable ESLs is limited.

GEOLOGY, HYDROGEOLOGY, AND EXTENT OF IMPACT

Geology

The subject site is situated on the East Bay Plain approximately 1¼ miles northeast of San Francisco Bay. The site vicinity is underlain by unconsolidated Holocene-age alluvium consisting of moderately to poorly sorted silt and clay up to 10 feet thick, overlying well bedded, moderately sorted fine sand, silt, and clayey silt with occasional thin beds of coarse sand.[13]

These general conditions are reflected in the boring logs prepared by ASE and CRA, and in cross-section interpretations prepared by CRA.[11] The shallow sedimentary material beneath the site consists predominantly of a sandy stratum to depths between approximately 2 and 6 feet bgs, overlying a stratum of fine-grained sediment, overlying a second sandy stratum. The upper sandy stratum is interpreted to be fill in some locations,

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[11] *Additional Site Investigation Report*, Conestoga-Rovers & Associates, dated June 14, 2010.

[12] *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final-November 2007*, San Francisco Bay Regional Water Quality Control Board, revised May 2008 [Table E].

[13] *Flatland Deposits of the San Francisco Bay Region, California-Their Geology and Engineering Properties, and Their Importance to Comprehensive Planning*, E.J. Helley, K.R. LaJoie, W.E. Spangle and M.L. Blair, US Geological Survey Professional Paper 943, 1979.

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and consists predominantly of fine to coarse sand, with up to 35% silt, and in some locations, up to 50% gravel. The fine-grained sediment consists of apparently interfingered layers of silt, clay, clayey silt, and silty clay in varying proportions, sometimes with fine to medium sand (up to 35%). The lower sandy stratum appears to consist predominantly of fine to medium sand with 10% to 40% silt. The lower sandy stratum is encountered in some, but not all, of the borings advanced at the site, at depths between 16 and 24 feet bgs.

Based on the borings advanced to date, the lateral extent of the lower sandy stratum has not been characterized, and its potential effect on the migration of dissolved hydrocarbons cannot be evaluated. None of the borings fully penetrated the lower sand, so the thickness is not known. Not all the borings penetrated the lower sandy stratum, and at this point in the investigation, the lateral extent of the lower sandy unit cannot be evaluated.

Hydrogeology

The site is situated within the East Bay Plain Groundwater Sub Basin.[14] The nearest surface water is San Lorenzo Creek, which flows in a concrete-lined channel approximately ¼-mile north of the site. A total of twenty-one groundwater monitoring events have been performed between the fourth quarter 1999 and third quarter 2011. During this time, groundwater has been measured between 5.25 and 8.35 feet bgs (Appendix A).

Data from the most recent monitoring and sampling event (August 2, 2011)[15] indicate groundwater flow was to the southwest at a gradient of approximately 0.003 to 0.006 ft/ft. Historically, groundwater flow has been predominantly to the west-southwest, and during the historical monitoring period, groundwater flow has fluctuated from south-southwest to west.

Extent of Impact in Soil

Residual petroleum hydrocarbons remain in place in the vicinity of the former USTs and dispenser islands. High concentrations were reported in sample T-3E (Appendix A) from 7 feet bgs in the northern corner of the former fuel UST pit, where total petroleum hydrocarbons as gasoline (TPHg) was reported at a concentration of 3,800 milligrams per Kilogram (mg/Kg), benzene was reported at 30 mg/Kg, and methyl tert butyl ether (MTBE) was reported at 27 mg/Kg. Low concentrations of petroleum hydrocarbons were also reported in the three other samples collected from the walls of the former UST

[14] California Department of Water Resources Bulletin 118, dated 2004.
[15] *Quarterly Groundwater Monitoring Report-Third Quarter 2011*, Stratus Environmental, Inc., dated October 26, 2011.

pit. High petroleum hydrocarbon concentrations were also reported beneath the southwestern end of the former dispenser nearest to the station building (inner dispenser island). This area was excavated further, and a sample from the base of the excavation (3.5 feet bgs) did not contain residual petroleum hydrocarbons. Finally, petroleum hydrocarbons were not reported in the sample collected from the base of the former waste oil UST pit after it was excavated to 12 feet bgs.

Residual petroleum hydrocarbons in soil have been reported at depths up to 24.5 feet bgs (Appendix A) from borings advanced during site assessment activities subsequent to UST and dispenser removal. The highest concentrations of diesel-range organics (DRO), gasoline-range organics (GRO), benzene, and MTBE are generally found in samples collected at depths from approximately 7 to 12 feet bgs. The highest concentrations of DRO (up to 1,800 mg/Kg) and GRO (up to 360 mg/Kg) were reported in samples collected from borings B-1 and MW-4 (adjacent to the outer dispenser island), and from boring B-4 (adjacent to the former gasoline UST pit where high concentrations were reported in compliance samples). The highest benzene concentration (0.72 mg/Kg) was reported in boring B-8, and the highest MTBE concentration (1.8 mg/Kg) was reported in a sample from boring B-4.

Away from the source areas (UST excavations and dispenser islands), the highest residual concentrations of DRO (up to 320 mg/Kg), GRO (up to 290 mg/Kg), and benzene (up to 0.72 mg/Kg) were reported southwest of the site in samples collected at 11.5 feet bgs in borings BH-A, BH-B, BH-C, and B-8, and the highest MTBE concentrations were reported in boring B-5 (up to 0.022 mg/Kg). The presence of hydrocarbons in soils away from the source areas is attributed to transport by groundwater.

Extent of Impact in Groundwater

The current analytical suite for groundwater includes GRO, benzene, toluene, ethylbenzene, and xylenes (BTEX), and MTBE. DRO analysis was discontinued after third quarter 2009. During the most recent full groundwater sampling event prior to the DPE pilot test (February 4, 2011), GRO was reported only in wells MW-3 (220 micrograms/liter [µg/L]) and MW-4 (4,800 µg/L). Benzene concentrations in these wells were reported at 64 µg/L and 350 µg/L, respectively, and in well MW-1 (0.90 µg/L). MTBE was reported in all wells, at concentrations ranging from 4.4 µg/L to 440 µg/L, with the highest concentration reported in well MW-4 (Appendix A).

Historical analytical data for grab groundwater samples collected from the exploratory soil borings (Appendix A) indicate that characterization of the lateral extent of dissolved hydrocarbons in groundwater is adequate to begin interim remediation. Off-site migration of the dissolved petroleum hydrocarbon plume is to the west and southwest.

CRA concluded[10] that the sanitary sewer lines in Grant Avenue may be acting as a preferential pathway for dissolved petroleum hydrocarbon migration. (GRO and benzene were reported in grab groundwater samples collected adjacent to the first sewer line [borings B-11 and B-13], but were not reported in water samples collected adjacent to the second sewer line [borings B-10 and B-12], suggesting that once the dissolved hydrocarbons reach the first sewer line, they preferentially migrate in the backfill of the pipe trench instead of continuing to the northwest. MTBE concentrations in these grab groundwater samples show a similar pattern).

Petroleum Hydrocarbons in Soil Vapors

Soil vapor samples were collected from SV-1 through SV-4 on February 25, 2010. GRO (36,000,000 micrograms/cubic meter [µg/m3] to 52,000,000 µg/m3) and benzene (18,000 µg/m3 to 160,000 µg/m3) were reported in all samples. MTBE was reported only in the sample from SV-4 (5,400 µg/m3). Soil vapor analytical data are included in Appendix A. All reported GRO and benzene concentrations were above their respective current ESLs for commercial land use. Due to the shallow groundwater, high soil vapor concentrations are likely to be found across the former Olympic station site and the portion of the adjoining property overlying the dissolved hydrocarbon plume.

REMEDIATION WELL INSTALLATION

On May 19 and 20, 2011, a Stratus geologist, under the direction of a California Registered Professional Geologist, oversaw the installation of remediation wells EX-1, EX-2, EX-3, IW-1, and IW-2 in the locations shown on Figure 2. All Well Abandonment (C-57 #848359) provided the drilling equipment and personnel necessary to advance the well borings and construct the wells. Drilling was completed using a CME-75 drill rig equipped with 8- and 10-inch diameter hollow-stem augers.

Well Borings

Prior to initiating drilling activities, Underground Service Alert was notified and a private utility locating contractor surveyed the proposed drilling locations. The initial 5 feet of each boring were advanced with a hand auger to reduce the possibility of damaging underground utilities.

During the advancement of each boring, soil was sampled at 5-foot intervals using a 2-inch diameter split spoon sampler containing three 6-inch-long metal sample sleeves. For each sampled interval, the bottom-most intact sample sleeve was lined with Teflon™ sheets, capped, labeled, stored in a resealable plastic bag, and placed in an ice-chilled cooler. Soil from each sampled interval was placed and sealed in plastic bags to allow accumulation of volatile organic compounds (VOCs) within the airspace of the bag. A

portable photo-ionization detector (PID) was used to measure VOC concentrations from each sample in parts per million vapor (ppmv).

Soil samples were logged in the field using the Unified Soil Classification System (USCS). Boring logs detailing soil stratigraphy and PID results are included in Appendix B. Two to three soil samples from each boring were submitted for chemical analysis.

Well Construction

Upon reaching terminal depth in borings EX-1, EX-2, and EX-3, an extraction well was constructed within the 10-inch diameter augers. The wells were constructed using 4-inch diameter schedule 40 PVC well casing; a 15-foot length of 0.020-inch slotted screen was placed from approximately 5 to 20 feet bgs. A sand filter pack was placed in the annular space around the well screen and casing from the bottom of the well to approximately 2 feet above the well screen. Approximately 2 feet of bentonite chips were then placed on top of the filter pack (hydrated with clean water) to provide a transition seal for the well. Neat cement was used to backfill the remaining annular space around the well casing. A watertight locking cap was placed over the top of the well casing, and a traffic rated vault box was installed around the top of each extraction well.

At the terminal depths of borings IW-1 and IW-2, ozone injection wells were installed within the 8-inch diameter augers. The injection wells were constructed using ¾-inch diameter schedule 80 PVC well casing connected to a 24-inch long, 2⅝-inch diameter porous ceramic gas diffuser that was installed from approximately 28 to 30 feet bgs. A sand filter pack was placed in the annular space around the diffuser and well casing from the bottom of the well to approximately 12 inches above the diffuser. A transition seal consisting of approximately 2 feet of hydrated bentonite chips were placed on top of the filter pack, and then neat cement was used to backfill the remaining annular space around the well casing. A PVC slip-cap was placed on the top of each casing, and a traffic-rated vault box was installed on the top of each injection well.

Soil boring SV-5 was advanced using a 3¼-inch diameter hand auger to 5.5 feet bgs. Once the final depth was reached, 6 inches of #3 sand were placed at the base of the borehole. A 50-micron stainless steel vapor implant, attached to 6.5 feet of ¼-inch outside-diameter Teflon™ tubing, was then placed on the sand. An additional 6 inches of sand were placed around the vapor point and tubing, followed by the placement of 2 feet of hydrated bentonite chips, and then finished with neat cement to surface grade. At the surface, a traffic-rated well box was installed to protect the vapor point.

Well construction details are included on the boring logs in Appendix B, and are summarized in Table 1. Well Completion Reports have been submitted to the

Department of Water Resources. Boring logs have been uploaded to GeoTracker; upload confirmations are included in Appendix B.

Well Surveying

Following installation of the wells, Morrow Surveying (L.S. 8501) surveyed the locations (northing, easting, latitude, and longitude to NAD83) and top of casing elevations of all wells to the nearest 0.01 vertical feet (NAVD88), per GeoTracker requirements. The surveyor's report and GeoTracker upload confirmations are included in Appendix C.

Drilling Waste Disposal

Drill cuttings and wastewater generated during boring and well construction activities were placed in properly labeled, DOT-approved, 55-gallon steel drums and stored at the site pending disposal. On June 14, 2011, Integrated Wastestream Management (IWM) transported the soil waste to Republic Services' Vasco Road Landfill and the wastewater to Seaport Refining & Environmental. Disposal certificates are included in Appendix D.

Soil Sample Analytical Methods

Samples were collected and transported under strict chain-of-custody protocol. Soil samples collected during this investigation were forwarded to Alpha Analytical, Inc., for chemical analyses. The samples were analyzed for GRO using USEPA Method SW8015B/DHS LUFT, and for BTEX and MTBE using USEPA Method SW8260B. Soil analytical results are summarized in Appendix A. The laboratory report, chain-of-custody record, and GeoTracker upload confirmation are included in Appendix E.

DUAL PHASE EXTRACTION EVENT

The purpose of the pilot testing was to assess the feasibility of using DPE to mitigate petroleum hydrocarbon impact to soil and groundwater. The DPE pilot test event was conducted between June 7 and 12, 2011, using a trailer-mounted, high vacuum DPE system. Soil and groundwater were extracted from wells EX-1, EX-2, and EX-3; groundwater monitoring wells MW-1 through MW-4 and soil vapor sampling points SV-1 through SV-5 were used as observation points.

Before initiating pilot testing, the Bay Area Air Quality Management District (BAAQMD) was notified of the work schedule. Initially, Stratus intended to conduct a 30-day DPE test, consistent with the FS/IRAP. However, due to the proximity of the Arroyo High School, the BAAQMD would not issue a permit for a test greater than 5 days, as noted in the IRAP addendum.[2]

Dual Phase Extraction Equipment

The Solleco-manufactured DPE system consisted of a 15-horsepower (hp) liquid ring pump and a 250 cubic feet per minute (cfm) rated thermal oxidizer. The system also included a 100-gallon knockout tank and a 2-hp centrifugal pump used to transfer extracted groundwater to a 6,500 gallon storage tank. A 49-hp propane generator was used to power the DPE system. The DPE system, generator, water storage tank, and propane tank were situated within a temporary fenced enclosure.

The DPE test was conducted in two steps. The first step was performed on June 7, 2011, and consisted of extracting from wells EX-1, EX-2, and EX-3 individually for a period of approximately 4 hours each (Test 1, Test 2, and Test 3). The second step (Test 4) consisted of extracting from all three wells simultaneously. Test 4 was initiated on June 7, and was completed on June 12, 2011.

Dual Phase Extraction Procedure

The liquid ring pump of the DPE system was used to simultaneously extract soil vapors and groundwater from the subsurface. Soil vapors were separated from groundwater in the knockout tank and then directed to the thermal oxidizer for abatement before discharging to the atmosphere. The separated groundwater in the knockout tank was routed through aboveground hoses to the storage tank pending removal and disposal.

During the DPE tests, the EX-1 through EX-3 wellheads were temporarily modified to provide a seal for vacuum conditions and to facilitate insertion of a drop-tube (1.5-inch diameter) to extract the soil vapors and groundwater. A magnahelic gauge was used to measure applied vacuum at the extraction wells and induced vacuum at the observation wells, and a hand-operated electric water-level sounder was used to measure depth-to-groundwater in the observation wells. The DPE system was equipped to measure the vacuum applied by the system to the well field, the influent vapor stream temperature, and the process temperature in the oxidizer. A flow totalizer was installed to record the volume of groundwater that was transferred to the storage tank. Influent soil vapor concentrations were monitored periodically using a PID.

All observations were recorded on field data sheets; these are included in Appendix F.

Waste Disposal

Water was periodically removed from the storage tank throughout the test. IWM reported transporting 29,450 gallons of water to Seaport Refining and Environmental for disposal. Disposal certificates for this water are included in Appendix D.

Sample Collection

Soil Vapor Samples

During Tests 1, 2, and 3, influent vapor stream samples were collected at the start and end of each test. During Test 4, a total of five influent vapor stream samples were collected (on June 7, 8, 9, 10, and 12, 2011). All but one of the vapor samples were collected in Tedlar™ bags supplied by the laboratory. These samples were collected by means of a vacuum box to overcome the applied system vacuum. These samples were protected from sunlight and transported to the laboratory for chemical analysis. The influent vapor stream sample collected on June 12, 2011, at the end of Test 4, was collected using a 1 liter SUMMA™ canister.

Groundwater Samples

During Tests 1, 2, and 3, influent groundwater samples were collected at the start and end of each test. During Test 4, a total of four influent groundwater samples were collected (on June 7, 9, 10, and 12, 2011). These groundwater samples were collected in properly preserved containers supplied by the laboratory. The samples were placed in an ice-chilled cooler for transport to the laboratory.

Laboratory Analytical Methods

All vapor and groundwater samples were collected and transported to the analytical laboratory under strict chain-of-custody. All influent vapor samples collected June 7 through 10, 2011, and all influent groundwater samples were analyzed at Alpha Analytical, Inc., a California certified laboratory (ELAP #2019 and 01154CA). Both the vapor samples and the groundwater samples were analyzed for GRO using USEPA Method SW8015B, and for BTEX compounds and MTBE using USEPA Method SW8260B.

The vapor sample collected on June 12, 2011, was submitted to Air Toxics, Ltd., a California certified laboratory (ELAP #02110CA). This sample was analyzed for TPHg, BTEX, and MTBE using USEPA Method TO-15.

Laboratory reports, chain-of-custody records, and GeoTracker upload confirmation receipts are included in Appendix G.

DPE Event Results

The radius of influence (ROI) generated by soil vapor extraction alone is determined by measuring steady-state pressure distribution around the vapor extraction well. The ROI of an SVE well is often defined as distance from the SVE well at which 1 percent of

applied wellhead vacuum occurs. Evaluating ROI for a DPE system is more complicated. In addition to the distribution of vacuum around the extraction well, the influence of the system on groundwater must also be considered. For this reason, hard and fast limits often do not apply, and the engineer must evaluate the reading from both the observation points (induced pressure or vacuum, and depth to groundwater) and the DPE system (applied vacuum, groundwater extraction rate, influent vapor flow rate). For these reasons, estimates of radius of influence are often inexact, and are a judgement call by the supervising engineer.

Data pertaining to the DPE pilot test are presented in Tables 2 through 10. The following subsections summarize the findings of the DPE pilot test.

Test 1 (Extraction from Well EX-1 only):

- During Test 1, an average applied vacuum of 20.5 inches of mercury ("Hg) resulted in an average influent soil vapor flow rate of 76.4 cfm (Table 2).

- Stinger depth was initially set at 7 feet bgs, but was lowered to 10 feet bgs 40 minutes into the test. It remained at this depth for the remainder of Test 1 (Table 2).

- Induced vacuum was not observed in wells EX-2, EX-3, MW-1 through MW-4 (Table 2) or in SV-1 and SV-2 (Table 6). Pressure was observed in SV-4 (0.3 to 0.7 inches water column ["WC]) and SV-5 (0.1 "WC). Vacuum was observed in SV-3 and SV-5 (0.1 "WC in both).

- PID measurements of the influent air stream ranged from 140 to 201 ppmv during Test 1, generally increasing during the test period (Table 2).

- Only GRO and benzene were reported in the influent vapor samples (Table 7). GRO concentrations decreased from 1,700 to 1,600 milligrams per cubic meter (mg/m^3), and benzene concentrations increased from 5.7 to 6.0 mg/m^3.

- Petroleum hydrocarbon mass extraction rates in soil vapor decreased from 13.1 to 12.2 pounds/day (lbs/day) for GRO, were <0.02 lbs/day for MTBE, and increased from 0.04 to 0.05 lbs/day for benzene (Table 8).

- Groundwater drawdown was observed in each of the observation wells, ranging from 0.07 feet in EX-2, to 1.39 feet in MW-4 (Table 2).

- Approximately 800 gallons of groundwater were extracted (Table 2), at average rate of approximately 3.7 gallons per minute (gpm).

- GRO, MTBE and BTEX were reported in both influent water samples. GRO concentrations decreased from 1,000 to 980 µg/L, MTBE concentration increased from 110 to 130 µg/L, and benzene concentrations decreased from 99 to 92 µg/L (Table 9).

- Petroleum hydrocarbon mass extraction rates in groundwater increased from 31 to 49 lbs/day for GRO, increased from 3.4 to 6.6 lbs/day for MTBE, and increased from 3.1 to 4.6 lbs/day for benzene (Table 10).

- Given the relatively good air flow rates at low applied vacuum and the observed groundwater drawdown in the observation wells, the ROI for DPE in well EX-1 is at least of 25 feet, and may be as much as 35 feet.

Test 2 (Extraction from Well EX-2 only):

- During Test 2, an average applied vacuum of 19.4 "Hg resulted in an average influent soil vapor flow rate of 102.3 cfm (Table 3).

- Stinger depth in well EX-2 was initially set at 8 feet bgs, then was lowered to 9 feet bgs after 75 minutes. It remained at this depth for the remainder of Test 2 (Table 3).

- Induced vacuum was not observed in wells EX-1, EX-3, and MW-1 through MW-4 (Table 3), or in SV-1 through SV-3 and SV-5 (Table 6). Pressure was observed in SV-4 (0.1 to 1.2 "WC).

- The initial PID measurement of the influent vapor stream was 173 ppmv, but after 15 minutes the vapor stream PID reading was 44 ppmv, and the PID readings fluctuated between 17 and 30 ppmv during the remainder of test period (Table 3).

- Only GRO and MTBE were reported in the influent vapor stream samples (Table 7). GRO concentration decreased from 100 to 95 mg/m^3, and the MTBE concentrations increased from 3.4 to 4.7 mg/m^3.

- Petroleum hydrocarbon mass extraction rates in soil vapor decreased from 1.2 to 1.1 lbs/day for GRO, increased from 0.04 to 0.06 lbs/day for MTBE, and were <0.002 lbs/day for benzene (Table 8).

- Groundwater drawdown was observed in each of the shallow observation/ monitoring wells, ranging from 0.32 feet to 1.12 feet (Table 3). The drawdown calculations are relative to baseline measurements prior to Test 1, and assumes complete recovery after Test 1.

- Approximately 1,060 gallons of groundwater were extracted, at average rate of approximately 4.6 gpm (Table 3).

- Only GRO, MTBE and benzene were reported in the influent water samples. GRO concentrations increased from 290 to 330 µg/L, MTBE concentrations increased from 520 to 630 µg/L, and benzene concentrations decreased from 0.64 to 0.57 µg/L (Table 9).

- Petroleum hydrocarbon mass extraction rates in groundwater increased from 16 to 18 lbs/day for GRO, increased from 29 to 33 lbs/day for MTBE, and decreased from 0.04 to 0.03 lbs/day for benzene (Table 10).

- Given the relatively good air flow rates at low applied vacuum and the observed groundwater drawdown in the observation wells, the ROI for DPE in well EX-2 is at least of 25 feet, and may be as much as 35 feet.

Test 3 (Extraction from Well EX-3 only):

- During Test 3, an average applied vacuum of 22 "Hg resulted in an average influent soil vapor flow rate of 87.3 cfm (Table 4).

- Stinger depth was set at 8 feet bgs throughout the test.

- Induced vacuum was not observed in wells EX-1, EX-2, and MW-1 through MW-4 (Table 4), or in SV-1 and SV-3 (Table 6). Positive pressure was observed in SV-4 (0.8 to 1.7 "WC) and SV-5 (0.1 to 0.3 "WC). Vacuum was observed in SV-2 (0.1 and 0.3 "WC).

- PID measurements of the influent vapor stream increased from 13 to 65 ppmv during the test period (Table 4).

- Only GRO, MTBE, and benzene were reported in the influent vapor stream samples. GRO concentrations increased from 180 to 260 mg/m^3, MTBE concentrations increased from 0.34 to 0.38 mg/m^3, and benzene concentrations increased from 0.44 to 0.58 mg/m^3 (Table 7).

- Petroleum hydrocarbon mass extraction rates in soil vapor increased from 1.9 to 3.1 lbs/day for GRO, remained constant at 0.004 lbs/day for MTBE, and increased from 0.005 to 0.01 lbs/day for benzene (Table 8).

- Groundwater drawdown was observed in each of the shallow observation/monitoring wells, ranging from 0.44 feet to 0.94 feet (Table 4). The

drawdown calculations are relative to baseline measurements prior to Test 1, and assumes complete recovery after Test 2.

- Approximately 880 gallons of groundwater were extracted, at average rate of approximately 4.4 gpm (Table 4).

- Only GRO, MTBE, and benzene were reported in the influent water samples. GRO concentrations increased from 190 to 250 µg/L, MTBE concentrations increased from 90 to 95 µg/L, and benzene concentrations increased from 18 to 21 µg/L (Table 9).

- Petroleum hydrocarbon mass extraction rates in groundwater increased from 10 to 13 lbs/day for GRO, increased from 4.9 to 5.0 lbs/day for MTBE, and increased from 1.0 lbs/day to 1.1 lbs/day for benzene (Table 10).

- Given the relatively good air flow rates at low applied vacuum and the observed groundwater drawdown in the observation wells, the ROI for DPE in well EX-3 is at least of 25 feet, and may be as much as 35 feet.

Test 4 (Combined DPE Test Using Wells EX-1, EX-2 and EX-3):

- Test 4 was initiated at 16:30 on June 7, and lasted until 12:00 on June 12, with an interruption from 16:24 on June 10 to 15:45 on June 11. Based on the system hour meter reading (Table 5), the total operational time was 93.3 hours.

- During Test 4, an average applied vacuum of 15.8 "Hg resulted in an average influent soil vapor flow rate of 95.0 cfm (Table 5).

- Stinger depths were initially set at 10, 9, and 8 feet bgs in wells EX-1, EX-2, and EX-3, respectfully. After adjusting the stinger depths to maximize soil vapor and groundwater flow for approximately 24 hours, the stingers had been adjusted to depths of 6, 5, and 5 feet bgs, respectively, where they remained for the duration of the test (Table 5).

- Induced vacuum was not observed in wells MW-1, MW-2, and MW-3 during Test 4 (Table 5); vacuum was observed in well MW-4 (0.1 to 0.5 "WC). Vacuum was observed in SV-1 (0.1 "WC) at the end of Test 4 (Table 6), and in SV-2 throughout the test (0.1 to 0.8 "WC). In SV-3, both vacuum (0.1 to 1.3 "WC) and pressure (0.1 to 0.7 "WC) were observed during the test. In SV-4, pressure (0.1 to 0.6 "WC) was observed throughout most of Test 4, with vacuum (0.1 and 1.3 "WC) being observed at the end of the test. In SV-5, both vacuum (0.1 to 0.6 "WC) and pressure (0.1 to 0.2 "WC) were observed during the test.

- PID measurements of the influent air stream ranged from 60 ppmv to 446 ppmv, fluctuating throughout the test period (Table 5).

- Five influent vapor samples were submitted for chemical analysis during Test 4; petroleum hydrocarbons were reported in all the vapor samples. GRO concentrations decreased from 2,000 to 940 mg/m^3 from the start of the test period to June 10. Following service interruption, the GRO concentration increased to 5,700 mg/m^3 in the final sample. For MTBE, concentrations dropped from an initial 4.2 mg/m^3 to <2.5 mg/m^3, then increased to 5.7 mg/m^3 in the final sample. Benzene concentrations decreased from 4.6 mg/m^3 to 3.0 mg/m^3, then increased to 18 mg/m^3 (Table 7).

- Through June 10, the hydrocarbon mass extraction rates for soil vapor all exhibit a decreasing trend, with a dramatic increase at the end of the test period (after service interruption). GRO extraction rates decreased from 21 to 9.8 lbs/day, and then increased to 64 lbs/day at the end of the test period. MTBE extraction rates decreased from 0.04 to 0.01 lbs/day, and then increased to 0.06 lbs/day. And benzene extraction rates decreased from 0.05 to 0.03 lbs/day, and then increased to 0.20 lbs/day (Table 8).

- Groundwater drawdown was observed in each of the shallow observation/ monitoring wells, ranging from 0.91 feet to 1.44 feet (Table 5). The drawdown calculations were based on initial DTWs observed prior to Test 1 and assumes complete recovery after Test 3.

- Approximately 25,395 gallons of groundwater were extracted during Test 4 at average extraction rates of approximately 5.0 gpm (Table 5).

- Four influent groundwater samples were collected during Test 4. GRO, MTBE, and BTEX were reported in all samples. GRO concentrations showed an initial increase from 840 to 1,700 µg/L, then decreased to 1,300 µg/L, MTBE decreased from 300 to 220 µg/L, and benzene initially increased from 63 to 110 µg/L, then decreased to 69 µg/L (Table 9).

- The increased soil vapor mass extraction rates observed following service interruption were not mirrored in the groundwater mass extraction rates. Petroleum hydrocarbon extraction rates in groundwater decreased steadily from 94 to 70 lbs/day for GRO, decreased from 0.3 to 0.1 lbs/day for MTBE, and decreased from 0.05 to 0.03 lbs/day for benzene (Table 10).

DISCUSSION AND RECOMMENDATIONS

During each of the individual extraction well tests (Tests 1 through 3), field observations indicate a ROI of at least 25 feet developed around the extraction wells. During these tests, the highest extraction rates were observed while extracting from well EX-1 (up to 13 lb/day of GRO in soil vapor, and up to 49 lb/day of GRO in groundwater). During the course of the pilot study (approximately 104 total hours of operation), the DPE system removed approximately 118 lbs of GRO, <0.14 lbs of MTBE, and <0.37 lbs of benzene in soil vapor, and approximately 323 lbs of GRO, 6.3 lbs of MTBE, and 0.92 lbs of benzene in groundwater. Approximately 29,450 gallons of water were extracted during the course of test, at an average rate of 5 gpm.

The field observations and data collected during the course of this portion of the pilot study demonstrate that DPE is a viable remedial technology for the former Olympic Station facility. Following completion of the ozone injection study and the preparation of the ozone injection report, a Feasibility Analysis will be prepared to select between the two remedial options based on technical and cost benefit considerations.

LIMITATIONS

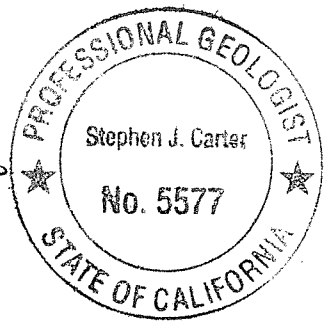
This report was prepared in general accordance with accepted standards of care that existed at the time this work was performed. No other warranty, expressed or implied, is made. Conclusions and recommendations are based on field observations and data obtained from this work and previous investigations. It should be recognized that definition and evaluation of geologic conditions is a difficult and somewhat inexact science. Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the subsurface conditions present. More extensive studies may be performed to reduce uncertainties. This report is solely for the use and information of our client unless otherwise noted.

If you have any questions regarding this report, or the project in general, please contact Steve Carter by email at scarter@stratusinc.net, or by telephone at (530) 676-6008.

Sincerely,
STRATUS ENVIRONMENTAL, INC.

Deborah L. Barr
Staff Engineer

Stephen J. Carter, P.G.
Project Manager



Attachments:

Table 1	Well Construction and Soil Boring Summary
Table 2	Summary of Field Observations: DPE Test Using Well EX-1
Table 3	Summary of Field Observations: DPE Test Using Well EX-2
Table 4	Summary of Field Observations: DPE Test Using Well EX-3
Table 5	Summary of Field Observations: DPE Test Using Wells EX-1, EX-2, and EX-3
Table 6	Induced Vacuum at Soil Vapor Sampling Points
Table 7	Influent Soil Vapor Analytical Results
Table 8	Petroleum Hydrocarbon Mass Removal Summary-Soil Vapor
Table 9	Influent Groundwater Analytical Results
Table 10	Petroleum Hydrocarbon Mass Removal Summary- Groundwater
Figure 1	Site Location Map
Figure 2	Site Plan
Appendix A	Historical Analytical Data
Appendix B	Boring Logs/Well Construction Details and GeoTracker Electronic Submittal Confirmations
Appendix C	Surveyor's Report and GeoTracker Electronic Submittal Confirmations
Appendix D	Waste Disposal Certificates
Appendix E	Soil Analytical Report, Chain-of-Custody Documentation, and GeoTracker Electronic Submittal Confirmation
Appendix F	DPE Pilot Test Field Data Sheets
Appendix G	DPE Analytical Reports, Chain-of-Custody Documentation, and GeoTracker Electronic Submittal Confirmations

cc: Mr. Phillip Jaber

TABLE 1

WELL CONSTRUCTION AND SOIL BORING SUMMARY
Former Olympic Station
1436 Grant Avenue, San Lorenzo, California

Well I.D.	Date	Boring Depth (feet)	Boring Diameter (inches)	Well Diameter (inches)	Well Depth (feet)	Screen Interval (feet bgs)	Slot Size (inches)	Drilling Method	Consultant
BH-A	04/30/02	20	2	--	--	--	--	Direct Push	Aqua Science Engineers, Inc.
BH-B	04/30/02	20	2	--	--	--	--	Direct Push	Aqua Science Engineers, Inc.
BH-C	04/30/02	20	2	--	--	--	--	Direct Push	Aqua Science Engineers, Inc.
B-1	02/25/08	25	3.25	--	--	--	--	Direct Push	Conestoga-Rovers & Assoc.
B-2	02/25/08	25	3.25	--	--	--	--	Direct Push	Conestoga-Rovers & Assoc.
B-3	02/26/08	25	3.25	--	--	--	--	Direct Push	Conestoga-Rovers & Assoc.
B-4	02/25/08	25	3.25	--	--	--	--	Direct Push	Conestoga-Rovers & Assoc.
B-5	02/26/08	25	3.25	--	--	--	--	Direct Push	Conestoga-Rovers & Assoc.
B-6	02/26/08	25	3.25	--	--	--	--	Direct Push	Conestoga-Rovers & Assoc.
B-7	02/26/08	25	3.25	--	--	--	--	Direct Push	Conestoga-Rovers & Assoc.
B-8	02/25/08	25	3.25	--	--	--	--	Direct Push	Conestoga-Rovers & Assoc.
B-9	02/11/10	25	2.5	--	--	--	--	Direct Push	Conestoga-Rovers & Assoc.
B-10	02/11/10	25	2.5	--	--	--	--	Direct Push	Conestoga-Rovers & Assoc.
B-11	02/10/10	11	2.5	--	--	--	--	Hand Auger	Conestoga-Rovers & Assoc.
B-12	02/11/10	25	2.5	--	--	--	--	Hand Auger	Conestoga-Rovers & Assoc.
B-13	02/10/10	4	3.25	--	--	--	--	Hand Auger	Conestoga-Rovers & Assoc.
B-13A	02/10/10	8	3.25	--	--	--	--	Hand Auger	Conestoga-Rovers & Assoc.
B-13B	02/10/10	9	3.25	--	--	--	--	Hand Auger	Conestoga-Rovers & Assoc.
B-13C	02/12/10	12	3.25	--	--	--	--	Hand Auger	Conestoga-Rovers & Assoc.
MW-1	09/24/99	26.5	8	2	26.5	5 - 26.5	0.020	HSA	Aqua Science Engineers, Inc.
MW-2	09/24/99	20	8	2	20	5 - 20	0.020	HSA	Aqua Science Engineers, Inc.
MW-3	09/24/99	21.5	8	2	21	5 - 21	0.020	HSA	Aqua Science Engineers, Inc.
MW-4	02/09/10	10	10	4	10	5 - 10	0.010	HSA	Conestoga-Rovers & Assoc.
EX-1	05/19/11	20	10	4	20	5 -20	0.020	HSA	Stratus Environmental, Inc.
EX-2	05/19/11	20	10	4	20	5 -20	0.020	HSA	Stratus Environmental, Inc.
EX-3	05/19/11	20	10	4	20	5 -20	0.020	HSA	Stratus Environmental, Inc.
IW-1	05/20/11	11.5	8	0.75	11.5	9.5 - 11.5	micro[1]	HSA	Stratus Environmental, Inc.
IW-2	05/20/11	16	8	0.75	16	14 - 16	micro[1]	HSA	Stratus Environmental, Inc.
SV-1	02/12/10	5.5	3.25	0.375	5	5[2]	0.002[2]	Hand Auger	Conestoga-Rovers & Assoc.
SV-2	02/09/10	5.5	3.25	0.375	5	5[2]	0.002[2]	Hand Auger	Conestoga-Rovers & Assoc.
SV-3	02/09/10	5.5	3.25	0.375	5	5[2]	0.002[2]	Hand Auger	Conestoga-Rovers & Assoc.
SV-4	02/09/10	5.5	3.25	0.375	5	5[2]	0.002[2]	Hand Auger	Conestoga-Rovers & Assoc.
SV-5	05/20/11	5.5	3.25	0.375	5	5[3]	0.002[3]	Hand Auger	Stratus Environmental, Inc.

Notes:
HSA = hollow stem auger

1 = Wells were constructed with 3/4-inch casing attached to a 2" diameter x 24" long ceramic microsparge unit.
2 = Vapor points were constructed with a 3/8" diameter x 1" long 40- to 60-micron (0.002 inch) pore polyethylene vapor probe.
3 = Vapor point was constructed with a 3/8" diameter x 1/2" long 50-micron (0.002 inch) pore stainless-steel vapor probe.

Table 2
Summary of Field Observations: DPE Test Using Well EX-1
Olympic Station
1436 Grant Avenue
San Lorenzo, California

Date & Time	Hour Meter Reading	Stinger Depth	Applied Vacuum	System Influent Flow Rate[1]	Dilution Air Flow Rate[2]	System Influent PID	System Effluent PID	GW Flow Totalizer	GW Extraction Rate	Wellhead Vacuum	Induced Vacuum and Depth to Water											
										EX-1	EX-2		EX-3		MW-1		MW-2		MW-3		MW-4	
	hours	feet	"Hg	cfm	cfm	ppmv	ppmv	gallons	gpm	"Hg	"WC	DTW	"WC	DTW	"WC	DTW	"WC	DTW	"WC	DTW	"WC	DTW
6/6/11 5:30	--	--	--	--	--	--	--	--	--	--	0	6.34	0	5.94	0	6.66	0	6.22	0	6.26	0	6.13
	Begin EX-1 Test																					
6/7/11 4:20	7770.0	7	13	109.1	43.3	140	2.6	242,130	--	--	0	--	0	--	0	--	0	--	0	--	0	--
6/7/11 4:30	--	7	--	--	--	--	--	--	--	2	0	6.35	0	6.14	0	6.82	0	6.40	0	6.69	0	6.37
6/7/11 5:00	7770.6	7	13	109.1	37.4	170	2.8	242,210	2.2	2	0	6.35	0	6.18	0	6.86	0	6.46	0	6.77	0	6.50
6/7/11 5:30	7771.1	10	23	65.4	20.2	191	2.6	242,300	3.0	2	0	6.37	0	6.25	0	6.92	0	6.51	0	7.00	0	6.75
6/7/11 6:00	7771.6	10	23	65.4	20.2	186	2.6	242,480	6.0	2	0	6.38	0	6.32	0	6.97	0	6.57	0	7.09	0	7.06
6/7/11 6:30	7772.1	10	23	65.4	21.7	201	2.1	242,570	3.0	2	0	6.38	0	6.34	0	7.00	0	6.59	0	7.10	0	7.25
6/7/11 7:00	7772.6	10	23	65.4	21.7	198	2.0	242,740	5.7	2	0	6.39	0	6.35	0	7.00	0	6.61	0	7.13	0	7.44
6/7/11 7:30	7773.1	10	23	65.4	18.8	176	2.0	242,840	3.3	2	0	6.41	0	6.37	0	7.02	0	6.62	0	7.15	0	7.50
6/7/11 8:00	7773.6	10	23	65.4	19.8	179	2.0	242,930	3.0	2	0	6.41	0	6.37	0	7.02	0	6.63	0	7.15	0	7.52
Average/ Max DTW	NA	NA	20.5	76.4	25.4	180	2.3	NA	3.7	2.0	0	6.41	0	6.37	0	7.02	0	6.63	0	7.15	0	7.52
Distance to EX-1 (feet)										NA	46.8		64.6		44.6		62.1		29.0		16.2	
Well Screen Interval (feet bgs)										5-20	5-20		5-20		5-26.5		5-20		5-21		5-10	

Notes:

cfm = cubic feet per minute
-- = not measured, not recorded, or not calculated
"WC = inches of water column
ppmv = parts per million by volume
gpm = gallons per minute
NA - not applicable
"Hg = inches of mercury
PID = photo ionization detector
DTW = depth to water in feet below top of well casing
bgs = below ground surface

Footnotes:

[1]Air flow rate was recorded in the field in feet per minute (fpm) using a handheld anemometer. Field measurements were converted to cfm in a 2-inch diameter pipe [flowrate(cfm)=velocity of flow(fpm) x area of pipe (ft^2)]
[2]Air flow rate was recorded in the field in feet per minute (fpm) using a handheld anemometer. Field measurements were converted to cfm in a 1.5-inch diameter pipe [flowrate(cfm)=velocity of flow(fpm) x area of pipe (ft^2)]

Table 3
Summary of Field Observations: DPE Test Using Well EX-2
Olympic Station
1436 Grant Avenue
San Lorenzo, California

Date & Time	Hour Meter Reading	Stinger Depth	Applied Vacuum	System Influent Flow Rate[1]	Dilution Air Flow Rate[2]	System Influent PID	System Effluent PID	GW Flow Totalizer	GW Ext Rate	Wellhead Vacuum	Induced Vacuum and Depth to Water											
										EX-2	EX-1		EX-3		MW-1		MW-2		MW-3		MW-4	
	hours	feet	"Hg	cfm	cfm	ppmv	ppmv	gallons	gpm	"Hg	"WC	DTW	"WC	DTW	"WC	DTW	"WC	DTW	"WC	DTW	"WC	DTW
												6.38*		5.94*		6.66*		6.22*		6.26*		6.13*
6/7/11 8:15	7773.8	8	15	98.2	37.8	173	2.5	242,930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/7/11 8:30	7774.0	8	20	104.7	30.3	44	2.4	243,020	7.5	4.7	0	6.82	0	6.27	0	6.98	0	6.54	0	6.65	0	7.25
6/7/11 9:00	7774.6	8	20	104.7	35.3	30	2.4	243,190	4.7	5.0	0	6.65	0	6.21	0	6.94	0	6.50	0	6.54	0	6.94
6/7/11 9:30	7775.1	9	20	104.7	33.6	23	2.3	243,290	3.3	3.0	0	6.64	0	6.20	0	6.95	0	6.50	0	6.51	0	6.77
6/7/11 10:00	7775.6	9	20	104.7	36.4	20	2.3	243,470	6.0	3.8	0	6.62	0	6.21	0	6.96	0	6.50	0	6.52	0	6.66
6/7/11 10:30	7776.1	9	20	102.5	39.5	20	2.2	243,560	3.0	3.8	0	6.61	0	6.19	0	6.95	0	6.50	0	6.51	0	6.58
6/7/11 11:00	7776.6	9	20	104.7	39.4	17	2.0	243,730	5.7	4.0	0	6.61	0	6.18	0	6.97	0	6.50	0	6.51	0	6.54
6/7/11 11:30	7777.1	9	20	98.2	34.4	20	2.0	243,820	3.0	4.0	0	6.61	0	6.20	0	6.97	0	6.51	0	6.50	0	6.51
6/7/11 12:00	7777.6	9	20	98.2	36.7	29	2.0	243,990	5.7	4.0	0	6.61	0	6.19	0	6.97	0	6.50	0	6.48	0	6.49
Average/ Max DTW	NA	NA	19.4	102.3	35.9	41.8	2.2	NA	4.6	4.0	0	6.82	0	6.27	0	6.98	0	6.54	0	6.65	0	7.25
Distance to EX-2 (feet)										NA	46.8		72.3		14.2		51.7		68.4		60.1	
Well Screen Interval (feet bgs)										5 - 20	5-20		5-20		5-26.5		5-20		5-21		5-10	

Notes:

cfm = cubic feet per minute
-- = not measured, not recorded, or not calculated
"WC = inches of water column
ppmv = parts per million by volume
gpm = gallons per minute
NA - not applicable
"Hg = inches of mercury
PID = photo ionization detector
DTW = depth to water in feet below top of well casing
bgs = below ground surface

* DTW was measured prior to test 1; full recovery was assumed, therefore, values presented are from the baseline measurements prior to Test 1.

Footnotes:

[1]Air flow rate was recorded in the field in feet per minute (fpm) using a handheld anemometer. Field measurements were converted to cfm in a 2-inch diameter pipe [flowrate(cfm)=velocity of flow(fpm) x area of pipe (ft^2)]

[2]Air flow rate was recorded in the field in feet per minute (fpm) using a handheld anemometer. Field measurements were converted to cfm in a 1.5-inch diameter pipe [flowrate(cfm)=velocity of flow(fpm) x area of pipe (ft^2)]

Table 4
Summary of Field Observations: DPE Test Using Well EX-3
Olympic Station
1436 Grant Avenue
San Lorenzo, California

Date & Time	Hour Meter Reading	Stinger Depth	Applied Vacuum	System Influent Flow Rate[1]	Dilution Air Flow Rate[2]	System Influent PID	System Effluent PID	GW Flow Totalizer	GW Ext Rate	Wellhead Vacuum	Induced Vacuum and Depth to Water											
										EX-3	EX-1		EX-2		MW-1		MW-2		MW-3		MW-4	
	hours	feet	"Hg	cfm	cfm	ppmv	ppmv	gallons	gpm	"Hg	"WC	DTW	"WC	DTW	"WC	DTW	"WC	DTW	"WC	DTW	"WC	DTW
6/7/11 12:15	7777.8	8	22	87.3	41.1	13	2.6	243,990	--	--	--	6.38*	--	6.34*	--	6.66*	--	6.22*	--	6.26*	--	6.13*
6/7/11 12:30	7778.1	8	22	87.3	37.1	40	2.4	244,080	5.0	3.9	0	6.71	0	6.78	0	7.04	0	7.05	0	6.84	0	6.49
6/7/11 13:00	7778.6	8	22	87.3	33.2	37	2.0	244,220	4.7	3.9	0	6.77	0	6.77	0	7.09	0	7.10	0	6.90	0	6.53
6/7/11 13:30	7779.1	8	22	87.3	31.9	42	2.0	244,340	4.0	3.9	0	6.79	0	6.77	0	7.10	0	7.13	0	6.93	0	6.55
6/7/11 14:00	7779.6	8	22	87.3	36.7	50	2.0	244,440	3.3	3.9	0	6.81	0	6.75	0	7.11	0	7.14	0	6.95	0	6.55
6/7/11 14:30	7780.1	8	22	87.3	44.3	57	2.1	244,530	3.0	3.9	0	6.82	0	6.75	0	7.12	0	7.15	0	6.97	0	6.57
6/7/11 15:00	7780.6	8	22	87.3	40.7	60	2.0	244,700	5.7	4.0	0	6.83	0	6.75	0	7.12	0	7.15	0	6.97	0	6.58
6/7/11 15:30	7781.1	8	22	87.3	43.5	65	2.0	244,870	5.7	3.8	0	6.84	0	6.75	0	7.13	0	7.16	0	6.97	0	6.58
Average/ Max DTW	NA	NA	22	87.3	38.6	45.5	2.1	NA	4.4	3.9	0	6.80	0	6.76	0	7.10	0	7.13	0	6.93	0	6.55
Distance to EX-3 (feet)										NA	64.6		72.3		58.4		27.1		50.2		77.8	
Well Screen Interval (feet bgs)										5-20	5-20		5-20		5-26.5		5-20		5-21		5-10	

Notes:

cfm = cubic feet per minute
-- = not measured, not recorded, or not calculated
"WC = inches of water column
ppmv = parts per million by volume
gpm = gallons per minute
NA - not applicable
"Hg = inches of mercury
PID = photo ionization detector
DTW = depth to water in feet below top of well casing
bgs = below ground surface

* DTW was measured prior to test 1; full recovery was assumed, therefore, values presented are from the baseline measurements prior to Test 1.

Footnotes:

[1]Air flow rate was recorded in the field in feet per minute (fpm) using a handheld anemometer. Field measurements were converted to cfm in a 2-inch diameter pipe [flowrate(cfm)=velocity of flow(fpm) x area of pipe (ft^2)]

[2]Air flow rate was recorded in the field in feet per minute (fpm) using a handheld anemometer. Field measurements were converted to cfm in a 1.5-inch diameter pipe [flowrate(cfm)=velocity of flow(fpm) x area of pipe (ft^2)]

Table 5
Summary of Field Observations: DPE Test Using Wells EX-1,EX-2, and EX-3
Olympic Station
1436 Grant Avenue
San Lorenzo, California

Date & Time	Hour Meter Reading	Applied Vacuum	System Influent Flow Rate[1]	Dilution Air Flow Rate[2]	System Influent PID	System Effluent PID	GW Flow Totalizer	GW Ext Rate	Wellfield Observations													
									EX-1		EX-2		EX-3		MW-1		MW-2		MW-3		MW-4	
	hours	"Hg	cfm	cfm	ppmv	ppmv	gallons	gpm	Stinger Depth (feet)	"WC	Stinger Depth (feet)	"WC	Stinger Depth (feet)	"WC	"WC	DTW	"WC	DTW	"WC	DTW	"WC	DTW
6/7/11 16:30	7781.1	Begin simultaneous extraction (wells EX-1, 2 and 3)					244,870	--	10		--	--	--	--	--	6.66*	--	6.22*	--	6.26*	--	6.13*
6/7/11 17:00	7782.6	17	87.3	35.3	165	2.0	245,560	7.7	10	27	9	7	8	42	0.0	7.32	0.0	7.26	0.0	6.50	0.0	7.19
6/7/11 18:00	7783.6	17	87.3	24.3	191	2.0	246,120	9.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/8/11 10:00	7799.6	17	87.3	31.2	300	4.0	249,270	3.3	5	54	--	--	--	--	0.0	7.16	0.0	6.77	0.0	7.06	0.5	7.31
6/8/11 11:00	7800.1	17	87.3	27.1	281	3.0	249,350	2.7	5	54	--	--	--	--	0.0	7.13	0.0	6.75	0.0	7.05	0.4	7.30
6/8/11 12:00	7801.6	16	87.3	32.2	280	13.6	249,500	1.7	5	54	--	--	--	--	0.0	7.15	0.0	6.74	0.0	7.06	0.4	7.28
6/8/11 13:00	7802.6	16	87.3	32.6	274	6.0	249,660	2.7	5	54	--	--	--	--	0.0	7.14	0.1	6.81	0.0	7.05	0.3	7.30
6/8/11 14:00	7803.6	20	87.3	20.1	280	2.6	249,990	5.5	7	54	7	11	7	43	0.0	7.38	0.0	7.27	0.0	7.45	0.2	7.39
6/8/11 15:00	7804.6	17	87.3	18.1	257	2.4	250,450	7.7	7	54	6	20	6	13	0.0	7.38	0.0	7.23	0.0	7.44	0.2	7.47
6/8/11 16:00	7805.6	17	87.3	19.2	250	2.9	250,760	5.2	6	54	5	7	5	13	0.0	7.38	0.0	7.20	0.0	7.41	0.0	7.47
6/8/11 17:00	7806.6	16	87.3	18.5	300	2.5	251,170	6.8	6	54	5	6	5	13	0.0	7.39	0.0	7.22	0.0	7.43	0.0	7.47
6/8/11 18:00	7807.6	17	87.3	15.1	344	2.8	251,490	5.3	6	54	5	6	5	12	0.0	7.40	0.0	7.24	0.0	7.44	0.0	7.49
6/8/11 19:00	7808.6	17	87.3	15.6	370	2.9	251,880	6.5	6	54	5	6	5	13	0.0	7.43	0.0	7.27	0.0	7.45	0.0	7.51
6/9/11 7:00	7820.6	15	98.2	16.0	392	2.4	255,820	5.47	6	53	5	20	5	49	0.0	7.47	0.0	7.28	+2.5[3]	7.47	0.3	7.51
6/9/11 8:00	7821.6	15	98.2	15.2	423	2.5	256,090	4.50	6	52	5	21	5	49	0.0	7.48	0.0	7.30	0.0	7.48	0.0	7.51
6/9/11 9:00	7822.6	15	98.2	15.0	446	3.7	256,360	4.50	6	52	5	21	5	48	0.0	7.48	0.0	7.31	0.0	7.46	0.3	7.52
6/9/11 10:00	7823.6	15	98.2	15.7	412	2.7	256,670	5.17	6	50	5	21	5	49	0.0	7.48	0.0	7.30	0.0	7.46	0.4	7.52
6/9/11 11:00	7824.6	15	98.2	15.1	400	2.6	256,970	5.00	6	51	5	21	5	47	0.0	7.48	0.0	7.28	0.0	7.48	0.2	7.53
6/9/11 12:00	7825.6	15	98.2	15.1	380	2.5	257,260	4.83	6	50	5	20	5	46	0.0	7.48	0.0	7.28	0.0	7.45	0.2	7.53
6/9/11 19:00	7833.0	15	98.2	15.1	342	2.4	259,200	4.4	6	51	5	18	5	47	0.0	7.50	0.0	7.32	0.0	7.48	0.2	7.51
6/10/11 3:30	7841.5	14	102.5	15.6	404	2.2	261,390	4.3	6	51	5	19	5	49	0.0	7.53	0.0	7.32	0.0	7.50	0.1	7.55

Table 5
Summary of Field Observations: DPE Test Using Wells EX-1,EX-2, and EX-3
Olympic Station
1436 Grant Avenue
San Lorenzo, California

Date & Time	Hour Meter Reading	Applied Vacuum	System Influent Flow Rate[1]	Dilution Air Flow Rate[2]	System Influent PID	System Effluent PID	GW Flow Totalizer	GW Ext Rate	Wellfield Observations													
									EX-1		EX-2		EX-3		MW-1		MW-2		MW-3		MW-4	
	hours	"Hg	cfm	cfm	ppmv	ppmv	gallons	gpm	Stinger Depth (feet)	"WC	Stinger Depth (feet)	"WC	Stinger Depth (feet)	"WC	"WC	DTW	"WC	DTW	"WC	DTW	"WC	DTW
6/10/11 4:30	7842.1	14	102.5	15.6	403	2.2	261,560	4.7	6	51	5	19	5	49	0.0	7.53	0.0	7.32	0.0	7.49	0.1	7.55
6/10/11 5:30	7843.1	14	102.5	15.7	385	2.0	261,820	4.3	6	51	5	19	5	49	0.0	7.52	0.0	7.33	0.0	7.51	0.1	7.55
6/10/11 6:30	7844.1	14	102.5	13.0	380	2.0	262,080	4.3	6	51	5	19	5	49	0.0	7.52	0.0	7.33	0.0	7.51	0.1	7.55
6/10/11 7:30	7845.1	14	102.5	13.2	410	2.0	262,260	3.0	6	51	5	19	5	49	0.0	7.53	0.0	7.33	0.0	7.51	0.3	7.57
6/11/11 8:30	7854.0	System down 6/10/11 at 16:24.				--	264,470	4.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6/11/11 15:45	7854.0	16	98.2	13.2	--	--	264,470	Restart system		--	--	--	--	--	--	--	--	--	--	--	--	--
6/11/11 17:00	7855.3	16	98.2	13.2	234	0.1	265,095	8.0	6	53	5	22	5	50	0.0	7.46	0.0	7.27	0.0	7.40	0.3	7.27
6/11/11 21:45	7860.1	16	104.7	13.2	215	0.3	266,425	4.6	6	53	5	20	5	45	0.0	7.52	0.0	7.30	0.0	7.47	0.2	7.54
6/12/11 12:00	7874.4	15.5	111.3	13.2	60	0.2	270,265	4.5	6	50	5	20	5	49	0.0	7.57	0.0	7.34	0.0	7.51	0.4	--
Average/ Max DTW	NA	15.8	95.0	18.7	318	2.8	NA	5.0	6	51	5	16	5	40	0.0	7.57	0.0	7.34	0.0	7.51	0.2	7.57
Well Screen Interval (feet bgs)									5 - 20		5 - 20		5 - 20		5 - 26.5		5 - 20		5 - 21		5 - 10	

Notes:

cfm = cubic feet per minute
ppmv = parts per million by volume
"Hg = inches of mercury
bgs = below ground surface
-- = not measured, not recorded, or not calculated
gpm = gallons per minute
PID = photo ionization detector
"WC = inches of water column
NA - not applicable
DTW = depth to water in feet below top of well casing

* DTW was measured prior to test 1; full recovery was assumed, therefore, values presented are from the baseline measurements prior to Test 1.

Footnotes:

[1]Air flow rate was recorded in the field in feet per minute (fpm) using a handheld anemometer. Field measurements were converted to cfm in a 2-inch diameter pipe [flowrate(cfm)=velocity of flow(fpm) x area of pipe (ft^2)]

[2]Air flow rate was recorded in the field in feet per minute (fpm) using a handheld anemometer. Field measurements were converted to cfm in a 1.5-inch diameter pipe [flowrate(cfm)=velocity of flow(fpm) x area of pipe (ft^2)]

[3]Positive pressure measured.

Table 6
Induced Vacuum at Soil Vapor Sampling Points
Former Olympic Station
1436 Grant Avenue, San Lorenzo, California

Date and Time	SV-1 ("WC)	SV-2 ("WC)	SV-3 ("WC)	SV-4 ("WC)	SV-5 ("WC)
Extraction from Well EX-1 (Test 1)					
6/7/11 4:30	0.0	0.0	0.0	0.0	**0.1**
6/7/11 5:00	0.0	0.0	0.0	0.0	0.0
6/7/11 5:30	0.0	0.0	0.0	**+0.4**	0.0
6/7/11 6:00	0.0	0.0	0.0	**+0.5**	0.0
6/7/11 6:30	0.0	0.0	0.0	**+0.7**	**0.1**
6/7/11 7:00	0.0	0.0	0.0	**+0.3**	**+0.1**
6/7/11 7:30	0.0	0.0	**0.1**	**+0.5**	0.0
Extraction from Well EX-2 (Test 2)					
6/7/11 8:30	0.0	0.0	0.0	0.0	0.0
6/7/11 9:00	0.0	0.0	0.0	**+0.1**	0.0
6/7/11 9:30	0.0	0.0	0.0	0.0	0.0
6/7/11 10:00	0.0	0.0	0.0	**+0.7**	0.0
6/7/11 10:30	0.0	0.0	0.0	**+0.6**	0.0
6/7/11 11:00	0.0	0.0	0.0	**+0.3**	0.0
6/7/11 11:30	0.0	0.0	0.0	**+1.2**	0.0
6/7/11 12:00	0.0	0.0	0.0	**+0.8**	0.0
Extraction from Well EX-3 (Test 3)					
6/7/11 12:30	0.0	**0.3**	0.0	**+0.8**	0.0
6/7/11 13:00	0.0	**0.2**	--	**+1.0**	**+0.1**
6/7/11 13:30	0.0	**0.1**	--	**+1.6**	**+0.1**
6/7/11 14:00	0.0	**0.2**	--	**+1.7**	**+0.3**
6/7/11 14:30	0.0	**0.1**	--	**+1.0**	**+0.2**
6/7/11 15:00	0.0	0.0	0.0	**+0.8**	0.0
6/7/11 15:30	0.0	0.0	0.0	**+0.3**	0.0
Extraction from Wells EX-1, EX-2 and EX-3 (Test 4)					
6/7/11 17:00	0.0	0.0	0.0	**+0.5**	0.0
6/8/11 10:00	0.0	**0.2**	**1.0**	**+0.3**	**0.2**
6/8/11 11:00	0.0	**0.2**	**1.0**	**+0.1**	**0.1**
6/8/11 12:00	0.0	0.0	0.0	**+0.1**	**+0.1**

Table 6
Induced Vacuum at Soil Vapor Sampling Points
Former Olympic Station
1436 Grant Avenue, San Lorenzo, California

Date and Time	SV-1 ("WC)	SV-2 ("WC)	SV-3 ("WC)	SV-4 ("WC)	SV-5 ("WC)
Extraction from Wells EX-1, EX-2 and EX-3 (continued)					
6/8/11 13:00	0.0	**0.1**	**0.7**	**+0.1**	0.0
6/8/11 14:00	0.0	**0.5**	**+0.1**	**+0.2**	**0.6**
6/8/11 15:00	0.0	**0.3**	0.0	0.0	0.0
6/8/11 16:00	0.0	0.0	0.0	0.0	0.0
6/8/11 17:00	0.0	0.0	0.0	**+0.2**	**+0.1**
6/8/11 18:00	0.0	0.0	0.0	**+0.1**	0.0
6/8/11 19:00	0.0	0.0	0.0	**+0.2**	0.0
6/9/11 7:00	0.0	**0.5**	**+0.2**	**+0.2**	**+0.2**
6/9/11 8:00	0.0	**0.5**	**+0.4**	**+0.6**	0.0
6/9/11 9:00	0.0	**0.7**	0.0	**+0.3**	0.0
6/9/11 10:00	0.0	**0.7**	**+0.1**	0.0	0.0
6/9/11 11:00	0.0	**0.8**	0.0	**+0.3**	0.0
6/9/11 12:00	0.0	**0.7**	0.0	**+0.2**	0.0
6/11/11 17:00	0.0	**0.3**	**1.3**	**1.3**	**0.7**
6/11/11 21:45	**0.1**	**0.6**	**+0.3**	**+0.4**	**+0.1**
6/12/11 12:00	**0.1**	**0.5**	**+0.7**	**0.1**	**+0.2**

Notes:
"WC = measured vacuum in inches of water column
+ = positive pressure measured

Table 7
Influent Soil Vapor Analytical Results
Olympic Station
1436 Grant Avenue
San Lorenzo, California

Sample Date and Time	Sample ID	GRO (mg/m^3)	MTBE (mg/m^3)	Benzene (mg/m^3)	Toluene (mg/m^3)	Ethylbenzene (mg/m^3)	Xylenes (mg/m^3)
EX-1 Test							
6/7/11 5:42	Oly A Sys INF	**1,700**	<2.0	**5.7**	<2.0	<2.0	<2.0
6/7/11 7:55	Oly A Sys INF	**1,600**	<2.0	**6.0**	<2.0	<2.0	<2.0
EX-2 Test							
6/7/11 9:35	Oly A Sys INF	**100**	**3.4**	<0.15	<0.15	<0.15	<0.15
6/7/11 11:35	Oly A Sys INF	**95**	**4.7**	<0.15	<0.15	<0.15	<0.15
EX-3 Test							
6/7/11 13:35	Oly A Sys INF	**180**	**0.34**	**0.44**	<0.30	<0.30	<0.30
6/7/11 15:35	Oly A Sys INF	**260**	**0.38**	**0.58**	<0.30	<0.30	<0.30
EX-1, EX-2 and EX-3 Test							
6/7/11 17:30	Oly A Sys INF	**2,000**	**4.2**	**4.6**	<2.5	<2.5	<2.5
6/8/11 10:22	Oly A Sys INF	**1,400**	<2.5	**4.8**	<2.5	<2.5	<2.5
6/9/11 10:20	Oly A Sys INF	**1,500**	**1.8**	**4.2**	<1.0	<1.0	<1.0
6/10/11 6:33	Oly A Sys INF	**940**	**1.3**	**3.0**	<1.0	**1.0**	<1.0
6/12/11 11:30	Oly A Sys INF	**5,700**	**5.7**	**18**	**0.46**	**12**	**10.4**

Notes:
GRO = Gasoline range organics C4-C13
BTEX = Benzene, toluene, ethylbenzene and xylenes
MTBE = Methyl tert-butyl ether

Analytical Methods (6/7/11 to 6/10/11)
GRO analyzed by EPA Method SW8015B
BTEX and MTBE analyzed by EPA Method SW8260B
Sample collected in Tedlar bags
Analyzed by Alpha Analytical, Inc. (ELAP #01154CA)

Analytical Methods (6/12/11)
GRO, BTEX and MTBE analyzed by EPA Method TO-15
Sample collected in 6 Liter Summa canister
Analyzed by Air Toxics Ltd. (ELAP #02110CA)

Table 8
Petroleum Hydrocarbon Mass Removal Summary - Soil Vapor
Olympic Station
1436 Grant Avenue
San Lorenzo, California

Date	Time	Test Well ID	Elapsed Time Between Samples (hours)[1]	Elapsed Time Between Samples (day)	Total Inf Flowrate (cfm)	Influent Concentration (mg/m^3)			Extraction Rate from Wells (lbs/day)			Cumulative Mass (GRO) Removed		Cumulative Mass (MTBE) Removed		Cumulative Mass (Benzene) Removed	
												Period[1]	Total	Period[1]	Total	Period[1]	Total
						GRO	MTBE	Benzene	GRO	MTBE	Benzene	lbs	lbs	lbs	lbs	lbs	lbs
06/07/11	4:20	**EX-1 Test**															
06/07/11	5:42	Oly A Sys INF	1.1	0.05	85.7	1,700	<2.0	5.7	13.1	<0.02	0.04	0.60	0.60	<0.001	<0.001	0.002	0.002
06/07/11	7:55	Oly A Sys INF	2.5	0.1	85.2	1,600	<2.0	6.0	12.2	<0.02	0.05	1.3	1.9	<0.002	<0.002	0.005	0.007
06/07/11	8:15	**EX-2 Test**															
06/07/11	9:35	Oly A Sys INF	1.3	0.05	138.3	100	3.4	<0.15	1.2	0.04	<0.002	0.07	1.9	0.002	<0.005	<0.0001	<0.007
06/07/11	11:35	Oly A Sys INF	2.0	0.08	132.5	95	4.7	<0.15	1.1	0.06	<0.002	0.09	2.0	0.005	<0.009	<0.0001	<0.007
06/07/11	12:15	**EX-3 Test**															
06/07/11	13:35	Oly A Sys INF	1.3	0.05	119.1	180	0.34	0.44	1.9	0.004	0.005	0.10	2.1	0.0002	<0.009	0.0003	<0.01
06/07/11	15:35	Oly A Sys INF	2.0	0.08	130.7	260	0.38	0.58	3.1	0.004	0.01	0.25	2.4	0.0004	<0.01	0.0006	<0.01
06/07/11	17:00	**EX-1, EX-2 and EX-3 Test**															
06/07/11	17:30	Oly A Sys INF	0.5	0.02	117.0	2,000	4.2	4.6	21	0.04	0.05	0.44	2.8	0.00	<0.01	0.001	<0.01
06/08/11	10:22	Oly A Sys INF	17.0	0.7	118.4	1,400	<2.5	4.8	15	<0.03	0.05	11	13	0.02	<0.03	0.04	<0.05
06/09/11	10:20	Oly A Sys INF	24.0	1.0	113.8	1,500	1.8	4.2	15	0.02	0.04	15	29	0.02	<0.05	0.04	<0.09
06/10/11	6:33	Oly A Sys INF	20.5	0.9	115.5	940	1.3	3.0	9.8	0.01	0.03	8	37	0.01	<0.06	0.03	<0.11
06/12/11	11:30	Oly A Sys INF	30.3	1.3	124.4	5,700	5.7	18.0	64	0.06	0.20	80	118	0.08	<0.14	0.25	<0.37

Notes:
cfm = cubic feet per minute
mg/m^3 = milligrams per cubic meter
lbs = pounds

Sample Calculations

Extraction rate $\frac{196.3 \text{ cu ft}}{\text{min}} \times \frac{380 \text{ mg}}{\text{cu meter}} \times \frac{\text{lb}}{453593 \text{ mg}} \times \frac{1{,}440 \text{ min}}{\text{day}} \times \frac{\text{cu meter}}{35.314 \text{ cu ft}} = 6.71 \text{ lbs/day}$

[1] For mass estimates between the sampling dates, average mass extraction rate and time elapsed (operational uptime) between the sampling events were used

Table 9
Influent Groundwater Analytical Results
Olympic Station
1436 Grant Avenue
San Lorenzo, California

Sample Date and Time	Sample ID	GRO (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
EX-1 Test							
6/7/11 5:35	Oly W INF	**1,000**	**110**	**99**	**1.0**	**12**	**3.02**
6/7/11 7:50	Oly W INF	**980**	**130**	**92**	**1.2**	**16**	**4.51**
EX-2 Test							
6/7/11 9:40	Oly W INF	**290**	**520**	**0.64**	<0.50	<0.50	<0.50
6/7/11 11:40	Oly W INF	**330**	**630**	**0.57**	<0.50	<0.50	<0.50
EX-3 Test							
6/7/11 13:40	Oly W INF	**190**	**90**	**18**	<0.50	<0.50	<0.50
6/7/11 15:40	Oly W INF	**250**	**95**	**21**	<0.50	<0.50	<0.50
EX-1, EX-2 and EX-3 Test							
6/7/11 17:25	Oly W INF	**840**	**300**	**63**	**0.74**	**11**	**2.4**
6/9/11 10:30	Oly W INF	**1,700**	**300**	**110**	**2.0**	**38**	**26.7**
6/10/11 6:42	Oly W INF	**1,600**	**270**	**96**	**1.8**	**42**	**29.7**
6/12/11 10:50	Oly W INF	**1,300**	**220**	**69**	**1.6**	**35**	**35.9**

Notes:
GRO = Gasoline range organics C4-C13
MTBE = Methyl tert-butyl ether
µg/L = micrograms/liter

Analytical Methods
GRO analyzed by EPA Method SW8015B
BTEX and MTBE analyzed by EPA Method SW8260B
Sample collected in Tedlar bags
Analyzed by Alpha Analytical, Inc. (ELAP #2019)

Table 10
Petroleum Hydrcarbon Mass Removal Summary - Groundwater
Olympic Station
1436 Grant Avenue
San Lorenzo, California

Date	Time	Test Well ID	Test Duration (hours)[1]	Test Duration (day)	Average Flowrate (gpm)	Influent Concentration (µg/L)			Extraction Rate from Wells (lbs/day)			Cumulative Mass (GRO) Removed		Cumulative Mass (MTBE) Removed		Cumulative Mass (Benzene) Removed	
												Period[1]	Total	Period[1]	Total	Period[1]	Total
						GRO	MTBE	Benzene	GRO	MTBE	Benzene	lbs	lbs	lbs	lbs	lbs	lbs
6/7/2011	4:20	EX-1 Test															
6/7/2011	5:35	Oly W INF	1.10	0.05	2.58	1,000	110	99	31	3.4	3.1	1.4	1.4	0.16	0.16	0.14	0.14
6/7/2011	7:50	Oly W INF	2.50	0.10	4.20	980	130	92	49	6.6	4.6	5.2	6.6	0.68	0.84	0.48	0.62
6/7/2011	8:15	EX-2 Test															
6/7/2011	9:40	Oly W INF	1.30	0.05	4.62	290	520	0.64	16	29	0.04	0.9	7.4	1.6	2.4	0.002	0.63
6/7/2011	11:40	Oly W INF	2.00	0.08	4.42	330	630	0.57	18	33	0.03	1.5	8.9	2.8	5.2	0.003	0.63
6/7/2011	12:15	EX-3 Test															
6/7/2011	13:40	Oly W INF	1.30	0.05	4.49	190	90	18	10	4.9	1.0	0.6	9.5	0.26	5.5	0.05	0.68
6/7/2011	15:40	Oly W INF	2.00	0.08	4.42	250	95	21	13	5.0	1.1	1.1	10.6	0.42	5.9	0.09	0.77
6/7/2011	17:00	EX-1, EX-2 and EX-3 Test															
6/7/2011	17:25	Oly W INF	0.50	0.02	9.33	840	300	63	94	0.3	0.05	2.0	12.5	0.005	5.9	0.001	0.78
6/9/2011	10:30	Oly W INF	41.00	1.71	4.41	1,700	300	110	90	0.1	0.04	154	166	0.20	6.1	0.07	0.85
6/10/2011	6:42	Oly W INF	20.50	0.85	4.15	1,600	270	96	80	0.1	0.04	68	235	0.09	6.2	0.03	0.88
6/12/2011	10:50	Oly W INF	30.30	1.26	4.50	1,300	220	69	70	0.1	0.03	89	323	0.11	6.3	0.04	0.92

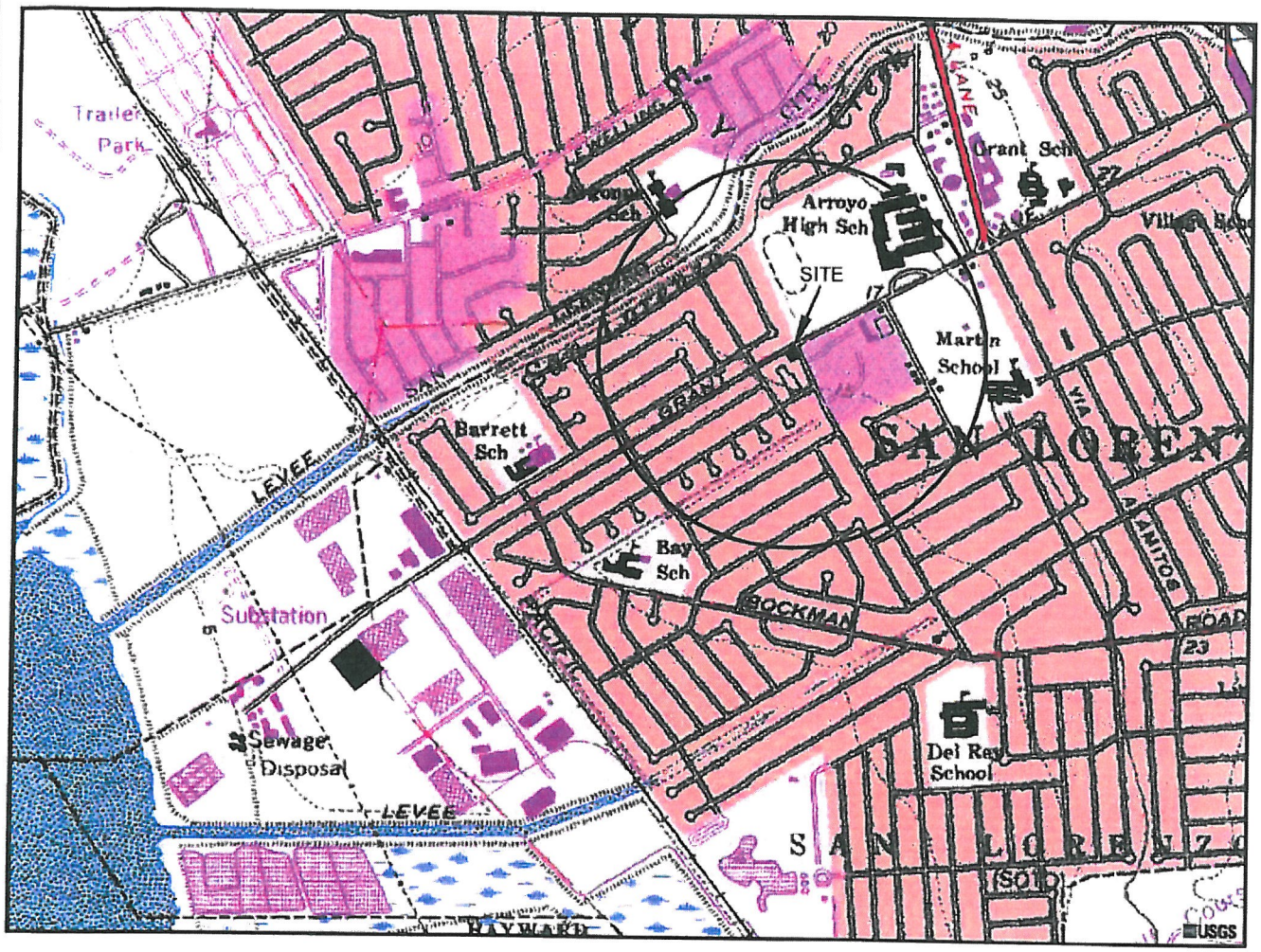
Notes:
gpm = gallons per minute
$\mu g/m^3$ = micrograms per cubic meter
lbs = pounds

Sample Calculations

Extraction rate = $\frac{1{,}000\ \mu g}{L} \times \frac{3.7854\ L}{gal} \times \frac{2.58\ gal}{min} \times \frac{lb}{453593\ \mu g} \times \frac{1{,}440\ min}{day}$

= 30.95 lbs/day

[1] For mass estimates between the sampling dates, average mass extraction rate and time elapsed (operational uptime) between the sampling events were used



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
SAN LORENZO, CA.
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1978

N

QUADRANGLE LOCATION

0 1800 FT

APPROXIMATE SCALE

STRATUS ENVIRONMENTAL, INC.

FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA

SITE LOCATION MAP

FIGURE
1

PROJECT NO.
2115-1436-01

LEGEND

- MW-1 MONITORING WELL LOCATION
- SV-1 VAPOR EXTRACTION WELL LOCATION
- B-1 SOIL BORING LOCATION
- EX-1 EXTRACTION WELL LOCATION
- IW-1 OZONE INJECTION WELL LOCATION
- ASSUMED RADIUS OF INFLUENCE = 25' (DPE)
- ASSUMED RADIUS OF INFLUENCE = 20' (OZONE)
- COMMUNICATIONS LINE
- OVERHEAD ELECTRICAL LINE
- ELECTRICAL LINE
- WATER LINE
- SANITARY SEWER LINE
- GAS LINE
- STORM DRAIN
- UTILITY FLOW DIRECTION

ARROYO HIGH SCHOOL
RESIDENTIAL
GRANT AVENUE
MANHOLE (TYP.)
VALVE (TYP.)
DRAIN INLET-DI (TYP.)
CONDOMINIUMS/ APARTMENT
CHANNEL STREET
PLANTER
SIGN
YARD LIGHT
DRIVEWAY
B-13
B-13C
B-13A
B-13B
B-12
B-11
B-10
B-9
B-8
B-5
B-6
B-7
B-4
B-3
B-2
BH-A
BH-B
BH-C
IW-1
IW-2
MW-1
MW-2
MW-3
MW-4
SV-1
SV-2
SV-3
SV-4
SV-5
EX-1
EX-2
EX-3
FORMER UNDERGROUND FUEL PIPING
FORMER UST EXCAVATION
FORMER PUMP ISLANDS
OFFICE & GARAGE
PROPERTY LINE
PHONE BOOTH
ELECTRICAL PANEL
GAS METER
FORMER WASTE OIL UST EXCAVATION
ARROYO CENTER BUILDINGS
ARROYO CENTER PARKING LOT
VIA SECO
DI

0 40 FT
APPROXIMATE SCALE

Olympic Service Station JMP REV May 3, 2011 Olympic Siteplan

STRATUS ENVIRONMENTAL, INC.

FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA

SITE PLAN

FIGURE
2

PROJECT NO.
2115-1436-01

APPENDIX A

HISTORICAL ANALYTICAL DATA

TABLE 2
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)*	Grouwater Elevation (ft msl)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-1	02/04/11	7.20	15.71	8.51	<50	0.90	<0.5	<0.5	<0.5	62
	06/03/11	7.28	18.60	11.32	Not Sampled					
	08/02/11	7.47		11.13	120	<0.50	<0.50	<0.50	<0.50	160
MW-2	02/04/11	6.79	15.17	8.38	<50	<0.50	<0.50	<0.50	<0.50	4.4
	06/03/11	6.82	18.00	11.18	Not Sampled					
	08/02/11	7.06		10.94	<50	<0.50	<0.50	<0.50	<0.50	46
MW-3	2/4/2011[1]	6.80	15.13	8.33	220[1]	64	1.6	<0.5	<0.5	36
	06/03/11	6.87	17.95	11.08	200	26	<0.50	<0.50	<0.50	34
	08/02/11	7.07		10.88	<50	2.5	<0.50	<0.50	<0.50	36
MW-4	2/4/2011[1]	6.71	15.15	8.44	4,800[1]	350	7.1	23	<2.5	440
	06/03/11	6.78	17.99	11.21	4,700	350	2.6	19	<2.5[2]	670
	08/02/11	7.01		10.98	4,700	290	<2.5[2]	12	<2.5[2]	970
EX-1	06/03/11	6.96	18.14	11.18	76	8.3	<0.50	<0.50	0.99	37
	08/02/11	7.20		10.94	420	37	0.65	3.5	2.9	32
EX-2	06/03/11	6.81	18.14	11.33	760	<1.5[2]	<1.5[2]	<1.5[2]	<1.5[2]	1,100
	08/02/11	7.03		11.11	920	8.7	<1.0[2]	<1.0[2]	<1.0[2]	920
EX-3	06/03/11	6.55	17.63	11.08	95	0.93	<0.50	<0.50	<0.50	78
	08/02/11	6.82		10.81	130	1.5	<0.50	<0.50	<0.50	150

TABLE 2

GROUNDWATER ANALYTICAL DATA
ENCINAL PROPERTIES
FORMER OLYMPIAN SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA

Well ID / TOC (ft above msl)	Date Sampled	DTW (ft)	GWE (ft above msl)	Oil & Grease	TPHmo	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	SVOCs & HVOCs	DIPE	TAME	ETBE	TBA	Ethanol	EDB	1,2- DCA	Notes
				← Concentrations in micrograms per liter (µg/L) →																	
ESL*: Groundwater is not a current or potential drinking water resource				NE	NE	210	210	46	130	43	100	1,600	--	NE	NE	NE	18,000	NE	NE	200	
Grab Groundwater Samples																					
Pit Water	9/13/1998	--	--	--	--	2,100	3,600	350	130	39	380	17,000	--	--	--	--	--	--	--	--	
BH-A	4/30/2002	17/8	--	--	<100	<100	180	<0.50	<0.50	8.8	<0.50	82	--	<0.50	<0.50	<0.50	<5.0	--	--	--	
BH-B	4/30/2002	16/8	--	--	<100	<200	2,300	120	11	60	150	2,000	--	<5.0	<5.0	<5.0	<50	--	--	--	
BH-C	4/30/2002	16/8	--	--	<100	<150	1,200	57	0.72	43	87	240	--	<0.50	1.0	<0.50	<5.0	--	--	--	
B-1-gw	2/25/2008	3/3.95	--	--	--	260,000	4,600	330	<5.0	33	<5.0	370	--	<5.0	<5.0	<5.0	<20	<500	<5.0	<5.0	*
B-2-gw	2/25/2008	7.5/6.95	--	--	--	1,900	540	12	<2.5	<2.5	<2.5	220	--	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5	*
B-3-gw	2/26/2008	8/NA	--	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	4.0	--	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	*
B-4-gw	2/25/2008	7.5/7.80	--	--	--	6,800	7,300	150	<50	150	<50	2,700	--	<50	<50	<50	1,700	<5,000	<50	<50	*
B-5-gw	2/26/2008	8/6.40	--	--	--	250	320	<10	<10	13	<10	630	--	<10	<10	<10	<40	<1,000	<10	<10	*
B-6-gw	2/26/2008	8/6.95	--	--	--	120	<50	<5.0	<5.0	<5.0	<5.0	240	--	<5.0	<5.0	<5.0	<20	<500	<5.0	<5.0	*
B-7-gw	2/26/2008	8/6.55	--	--	--	84	<50	<0.5	<0.5	<0.5	<0.5	27	--	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	*
B-8-gw	2/25/2008	8/6.10	--	--	--	1,000	930	37	<2.5	64	23	160	--	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5	*
B-9	2/11/2010	6.33	--	--	--	<50	<50	<2.5	<2.5	<2.5	<2.5	160	--	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5	*
B-10	2/11/2010	6.89	--	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	5.1	--	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	*
B-11	2/10/2010	5.20	--	--	--	3,700	130	0.69	<0.5	<0.5	<0.5	25	--	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	*
B-12	2/11/2010	6.65	--	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	1.2	--	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	*
B-13C	2/12/2010	8.97	--	--	--	3,400	2,300	<2.5	<2.5	<2.5	<2.5	92	--	<2.5	<2.5	<2.5	92	<250	<2.5	<2.5	*
Quarterly Groundwater Samples																					
MW-1	10/6/1999	8.35	6.65	--	--	84	3,900	<25	<25	<25	<25	3,500	--	--	--	--	--	--	--	--	*
15.00	1/13/2000	7.90	7.10	--	--	<50	<1,300	18	<13	<13	<13	1,700	--	--	--	--	--	--	--	--	*
	4/12/2000	7.08	7.92	--	--	56	<1,000	66	<10	<10	<10	1,600	--	--	--	--	--	--	--	--	
	7/19/2000	7.66	7.34	--	--	52	<1,000	<10	<10	<10	<10	1,200	--	--	--	--	--	--	--	--	
	10/25/2000	7.91	7.09	--	--	76	4,100	120	<25	<25	<25	6,100	--	--	--	--	--	--	--	--	*
	2/16/2007	6.32	8.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*
	3/1/2007	5.88	9.12	--	<250	<50	<50	<1.2	<1.2	<1.2	<1.2	78	--	<1.2	<1.2	<1.2	<12	<120	<1.2	<1.2	*
15.71	5/1/2007	7.24	8.47	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	250	--	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0	*
	8/1/2007	7.77	7.94	--	--	<50	<50	<25	<25	<25	<25	520	--	<25	<25	<25	<250	<2500	<25	<25	*
	11/1/2007	7.71	8.00	--	--	<50	<50	<12	<12	<12	<12	460	--	<12	<12	<12	<120	<1,200	<12	<12	
	2/1/2008	5.71	10.00	--	--	<50	<50	<2.5	<2.5	<2.5	<2.5	110	--	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5	*
	5/2/2008	7.52	8.19	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	240	--	<5.0	<5.0	<5.0	<20	<500	<5.0	<5.0	
	8/1/2008	8.02	7.69	--	--	<50	<50	<10	<10	<10	<10	500	--	<10	<10	<10	<40	<1,000	<10	<10	*
	11/4/2008	7.28	8.43	--	--	<50	<50	<5.0	<5.0	<5.0	<5.0	260	--	<5.0	<5.0	<5.0	26	<500	<5.0	<5.0	-
	8/11/2009	8.08	7.63	--	--	<50	<50	<5.0	<5.0	<5.0	<5.0	270	--	<5.0	<5.0	<5.0	<20	<500	<5.0	<5.0	-
	2/3/2010	6.14	9.57	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	39	--	--	--	--	--	--	--	--	-
	5/18/2010	7.09	8.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2

GROUNDWATER ANALYTICAL DATA
ENCINAL PROPERTIES
FORMER OLYMPIAN SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA

Well ID TOC (ft above msl)	Date Sampled	DTW (ft)	GWE (ft above msl)	Oil & Grease	TPHmo	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	SVOCs & HVOCs	DIPE	TAME	ETBE	TBA	Ethanol	EDB	1,2- DCA	Notes
				← Concentrations in micrograms per liter (ug/L) →																	
ESL*: Groundwater is not a current or potential drinking water resource				NE	NE	210	210	46	130	43	100	1,800	--	NE	NE	NE	18,000	NE	NE	200	
	8/5/2010	**7.65**	**8.06**	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**350**	--	--	--	--	--	--	--	--	
MW-2	10/6/1999	7.87	6.59	<1,000	<500	<50	70	<0.5	<0.5	<0.5	<0.5	11	ND	--	--	--	--	--	--	--	*
14.46	1/13/2000	7.46	7.00	<1,000	<500	<50	<50	<0.5	<0.5	<0.5	<0.5	6.2	ND	--	--	--	--	--	--	--	
	4/12/2000	6.67	7.79	1,100	<500	<50	<50	<0.5	<0.5	<0.5	<0.5	39	--	--	--	--	--	--	--	--	
	7/19/2000	7.23	7.23	1,300	<500	<50	<1,000	<10	<10	<10	<10	990	--	--	--	--	--	--	--	--	
	10/25/2000	7.52	6.94	--	<500	<50	370	<2.5	<2.5	<2.5	<2.5	690	--	--	--	--	--	--	--	--	
	2/16/2007	5.89	8.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/1/2007	5.45	9.01	--	<250	<50	<50	<0.5	<0.5	<0.5	<0.5	9.8	--	<0.5	<0.5	<0.5	<5.0	<50	<0.5	<0.5	*
15.17	5/1/2007	6.83	8.34	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	120	--	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0	*
	8/1/2007	7.35	7.82	--	--	<50	<50	<5.0	<5.0	<5.0	<5.0	130	--	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0	*
	11/1/2007	7.27	7.90	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	19	--	<0.5	<0.5	<0.5	<5.0	<50	<0.5	<0.5	
	2/1/2008	5.25	9.92	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	3.3	--	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	*
	5/2/2008	7.12	8.05	--	--	<50	<50	<2.5	<2.5	<2.5	<2.5	83.0	--	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5	
	8/1/2008	7.59	7.58	--	--	<50	<50	<1.0	<1.0	<1.0	<1.0	52	--	<1.0	<1.0	<1.0	<4.0	<100	<1.0	<1.0	*
MW-2	11/4/2008	6.84	8.33	--	--	80	<50	<0.5	<0.5	<0.5	<0.5	5.9	--	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	*
cont.	8/11/2009	7.65	7.52	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	9.4	--	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	*
	2/3/2010	5.75	9.42	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.86	--	--	--	--	--	--	--	--	--
	5/18/2010	6.67	8.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/5/2010	**7.25**	**7.92**	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**57**	--	--	--	--	--	--	--	--	--
MW-3	10/6/1999	7.90	6.51	--	--	300	3,900	900	89	160	560	790	--	--	--	--	--	--	--	--	
14.41	1/13/2000	7.50	6.91	--	--	210	740	110	4.8	35	18	290	--	--	--	--	--	--	--	--	
	4/12/2000	6.61	7.80	--	--	640	2,200	650	9.7	180	24	140	--	--	--	--	--	--	--	--	
	7/19/2000	7.24	7.17	--	--	270	2,700	420	<2.5	160	<2.5	99	--	--	--	--	--	--	--	--	
	10/25/2000	7.52	6.89	--	--	150	710	180	<2.5	24	<2.5	71	--	--	--	--	--	--	--	--	*
	2/16/2007	5.90	8.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*
	3/1/2007	5.44	8.97	--	<250	<50	82	20	<1.7	<1.7	<1.7	100	--	<1.7	<1.7	<1.7	<17	<170	<1.7	<1.7	*
15.13	5/1/2007	6.87	8.26	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	88	--	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0	*
	8/1/2007	7.40	7.73	--	--	<50	130	12	<2.5	<2.5	<2.5	98	--	<2.5	<2.5	<2.5	<25	<250	<2.5	<2.5	*
	11/1/2007	7.35	7.78	--	--	<50	77	<2.5	<2.5	<2.5	<2.5	68	--	<2.5	<2.5	<2.5	<25	<250	<2.5	<2.5	*
	2/1/2008	5.28	9.85	--	--	<50	<50	<2.5	<2.5	<2.5	<2.5	97	--	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5	
	5/2/2008	7.15	7.98	--	--	<50	68	2.3	<1.7	<1.7	<1.7	86	--	<1.7	<1.7	<1.7	7.20	<170	<1.7	<1.7	
	8/1/2008	7.66	7.47	--	--	<50	85	3.5	<1.0	<1.0	<1.0	66	--	<1.0	<1.0	<1.0	7.2	<100	<1.0	<1.0	*
	11/4/2008	6.96	8.17	--	--	<50	<50	<1.0	<1.0	<1.0	<1.0	40	--	<1.0	<1.0	<1.0	<4.0	<100	<1.0	<1.0	
	8/11/2009	7.72	7.41	--	--	<50	110	33	<0.5	<0.5	<0.5	28	--	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5	*
	2/3/2010	5.72	9.41	--	--	--	<50	0.55	<0.5	<0.5	<0.5	25	--	--	--	--	--	--	--	--	--
	5/18/2010	6.73	8.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2

GROUNDWATER ANALYTICAL DATA
ENCINAL PROPERTIES
FORMER OLYMPIAN SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA

Well ID TOC (ft above msl)	Date Sampled	DTW (ft)	GWE (ft above msl)	Oil & Grease	TPHmo	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	SVOCs & HVOCs	DIPE	TAME	ETBE	TBA	Ethanol	EDB	1,2- DCA	Notes
				← Concentrations in micrograms per liter (µg/L) →																	
ESL: Groundwater is not a current or potential drinking water resource				NE	NE	210	210	46	130	43	100	1,800	--	NE	NE	NE	18,000	NE	NE	200	
	8/5/2010	7.31	7.82	--	--	--	450	110	2.2	0.76	0.64	32	--	--	--	--	--	--	--	--	*
MW-4	5/18/2010	6.68	8.47	--	--	--	13,000	620	36	170	12	1,200	--	--	--	--	--	--	--	--	*
15.15	8/5/2010	7.25	7.90	--	--	--	9,200	780	13	230	4.3	1,800	--	--	--	--	--	--	--	--	*

Abbreviations / Notes

" = San Francisco Bay Regional Waer Quality Control Board ESL for groundwater where groundwater is not a current or potential drinking water resource

NE = Not Evaluated
TOC = Top of casing
DTW = Depth to water
GWE = Groundwater elevation in feet above mean sea level
ft above msl = feet above mean sea level
17/8 = Depth to first encountered groundwater/depth of static groundwater
<n = Not detected above laboratory reporting limit
-- = Not sampled, not analyzed, not available
ND = Not detected above laboratory reporting limit
Oil and grease by EPA Method 5520 E&F
TPHd = Total Petroleum Hydrocarbons as diesel range by EPA Method 8015
TPHg = Total Petroleum Hydrocarbons as gasoline range by EPA Method 8015
TPHmo = Total Petroleum Hydrocarbons as motor oil by EPA Method 8015
Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020
MTBE = Methyl tertiary butyl ether by EPA Method 8260
Di-isopropyl ether (DIPE), tertiary-amyl methyl ether (TAME), ethyl tertiary-butyl ether (ETBE), tertiary-butyl alcohol (TBA) by EPA Method 8260B
SVOCs = Semi-volatile organic compounds by EPA Method 8270, refer to corresponding analytical laboratory report for a full list of compounds
HVOCs = Halogenated volatile organic compoundy by EPA Method 8010, refer to corresponding analytical laboratory report for a full list of compounds
1,2 DCA = 1,2 dichloroethane
EDB = 1,2-dibromoethane
* = See Analytical Laboratory Report for laboratory sample description and TPH chromatogram interpretation.
TOC elevations were surveyed on March 8, 2007 by Virgil Chavez Land Surveying. Prior to this date, TOC elevation were relative to a project datum determined by Aqua Science Engineers, Inc. in 1998.

TABLE 2

SOIL ANALYTICAL SUMMARY

Former Olympic Station

1436 Grant Avenue, San Lorenzo, California

Sample Location	Sample Depth (feet bgs)	Date Collected	Oil and Grease (mg/kg)	TPH-mo (mg/kg)	DRO (mg/kg)	GRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	TBA (mg/Kg)	DIPE (mg/Kg)	ETBE (mg/Kg)	TAME (mg/Kg)	1,2-DCA (mg/Kg)	EDB (mg/Kg)	Ethanol (mg/kg)	Naph-thalene (mg/kg)
Shallow Soil (≤10' bgs) ESL[1]:			**NE**	**NE**	**180**	**180**	**0.27**	**9.3**	**4.7**	**11**	**8.4**	**110**	**NE**	**NE**	**NE**	**0.48**	**0.044**	**NE**	**2.8**
Deep Soil (>10' bgs) ESL[1]:			**NE**	**NE**	**180**	**180**	**2.0**	**9.3**	**4.7**	**11**	**8.4**	**110**	**NE**	**NE**	**NE**	**0.48**	**1.0**	**NE**	**4.8**
July 1998 UST Removal																			
WO-1-7.5	7.5	7/10/1998	4,300	--	**1,300**	**200**	**1.5**	**11**	3.6	**20**	1.4	--	--	--	--	<0.025	--	--	--
T-1E-7.5	7.5	7/10/1998	--	--	--	**180**	<0.01	0.94	4.6	0.56	<0.2	--	--	--	--	--	--	--	--
T-2E-8.0	8	7/10/1998	--	--	--	82	<0.01	0.39	2.9	0.28	0.45	--	--	--	--	--	--	--	--
T-3E-7.0	7	7/10/1998	--	--	--	**3,800**	**30**	**180**	**93**	**430**	**27**	--	--	--	--	--	--	--	--
T-3W-10.0	10	7/10/1998	--	--	--	170	<0.02	0.71	**5.3**	6.6	<0.4	--	--	--	--	--	--	--	--
D-1G-1.5	1.5	7/10/1998	--	--	--	**5,700**	<0.25	**14**	**54**	**280**	<5	--	--	--	--	--	--	--	--
D-2G-1.5	2	7/10/1998	--	--	--	**460**	<0.02	0.26	0.61	5.0	<0.4	--	--	--	--	--	--	--	--
D-1D-2.0	2	7/10/1998	--	--	5.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-2D-2.0	2	7/10/1998	--	--	39	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PL-1-1.5	1.5	7/10/1998	--	--	2.8	5.8	0.062	0.062	0.33	0.14	<0.05	--	--	--	--	--	--	--	--
PL-2-2.0	2	7/10/1998	--	--	1.3	5.9	0.10	0.56	0.19	0.42	0.75	--	--	--	--	--	--	--	--
December 1998 Waste Oil Tank Overexcavation																			
WO-OEX-12	12	12/18/1998	570	940	**250**	<1.3	<0.0050	0.024	0.057	0.24	<0.0050	--	--	--	--	<0.0050	--	--	--
D1G-OEX-3.5	3.5	12/18/1998	--	<50	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--
1999 Assessment																			
MW-1	10.5	9/24/1999	--	--	**250**	6.5	0.42	0.18	0.065	0.027	1.7	--	--	--	--	--	--	--	--
MW-2	10	9/24/1999	700	2,400	**1,000**	2.9	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--
MW-3	10	9/24/1999	--	--	26	11	**0.63**	0.18	0.31	1.1	<0.0050	--	--	--	--	--	--	--	--
2002 Assessment																			
BH-A	11.5	4/30/2002	--	180	**270**	150	<0.025	0.027	1.9	0.28	<0.025	<0.25	<0.025	<0.025	<0.025	--	--	--	--
BH-B	11.5	4/30/2002	--	<10	**320**	**290**	**2.2**	0.49	**5.0**	**12**	<0.050	<0.25	<0.050	<0.050	<0.050	--	--	--	--
BH-C	11.5	4/30/2002	--	12	**280**	**240**	1.7	0.016	4.3	5.1	0.014	<0.050	<0.0050	<0.0050	<0.0050	--	--	--	--
2008 Assessment																			
B-1	3	2/25/2008	--	--	8.3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	7	2/25/2008	--	--	**1,700**	**290**	0.25	<0.20	<0.20	<0.20	<0.20	<2.0	<0.20	<0.20	<0.20	<0.16	<0.16	<10	--
	10.5	2/25/2008	--	--	120	140	0.31	0.089	0.11	<0.050	1.0	<0.50	<0.050	<0.050	<0.050	<0.040	<0.040	<2.5	--
	19.5	2/25/2008	--	--	120	85	0.42	<0.050	0.91	<0.050	1.7	<0.50	<0.050	<0.050	<0.050	<0.040	<0.040	<2.5	--

TABLE 2

SOIL ANALYTICAL SUMMARY

Former Olympic Station

1436 Grant Avenue, San Lorenzo, California

Sample Location	Sample Depth (feet bgs)	Date Collected	Oil and Grease (mg/kg)	TPH-mo (mg/kg)	DRO (mg/kg)	GRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	TBA (mg/Kg)	DIPE (mg/Kg)	ETBE (mg/Kg)	TAME (mg/Kg)	1,2-DCA (mg/Kg)	EDB (mg/Kg)	Ethanol (mg/kg)	Naph-thalene (mg/kg)
Shallow Soil (≤10' bgs) ESL[1]:			**NE**	**NE**	**180**	**180**	**0.27**	**9.3**	**4.7**	**11**	**8.4**	**110**	**NE**	**NE**	**NE**	**0.48**	**0.044**	**NE**	**2.8**
Deep Soil (>10' bgs) ESL[1]:			**NE**	**NE**	**180**	**180**	**2.0**	**9.3**	**4.7**	**11**	**8.4**	**110**	**NE**	**NE**	**NE**	**0.48**	**1.0**	**NE**	**4.8**
B-2	7	2/25/2008	--	--	14	30	0.016	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	11.5	2/25/2008	--	--	41	86	0.12	<0.005	0.020	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	15	2/25/2008	--	--	2.2	4.9	0.018	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	24.5	2/25/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.033	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
B-3	7	2/26/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	15	2/26/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.0084	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	24.5	2/26/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
B-4	7	2/25/2008	--	--	**260**	**250**	0.016	<0.010	0.037	<0.010	0.28	0.34	<0.010	<0.010	<0.010	<0.0080	<0.0080	<0.50	--
	11.5	2/25/2008	--	--	12	110	0.28	<0.050	1.1	<0.050	1.8	<0.50	<0.050	<0.050	<0.050	<0.040	<0.040	<2.5	--
	15	2/25/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.045	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	24.5	2/25/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
B-5	7	2/26/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	11.5	2/26/2008	--	--	7.2	49	<0.005	<0.005	0.15	<0.005	0.0056	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	15	2/26/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.019	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	24.5	2/26/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.022	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
B-6	7	2/26/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	11.5	2/26/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	15.5	2/26/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	24.5	2/26/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.020	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
B-7	7	2/26/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	11.5	2/26/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	15.5	2/26/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	24.5	2/26/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
B-8	6.5	2/25/2008	--	--	4.3	5.8	0.015	<0.005	0.0075	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	11.5	2/25/2008	--	--	16	**270**	0.72	<0.20	2.5	0.99	<0.20	<2.0	<0.20	<0.20	<0.20	<0.16	<0.16	<10	--
	15	2/25/2008	--	--	1.5	4.9	<0.005	<0.005	0.014	<0.005	0.027	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
	24.5	2/25/2008	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.25	--
2010 Assessment																			
MW-4	3	2/9/2010	--	--	**530**	160	<0.050	<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050	<0.050	<0.040	<0.040	<5.0	1.3
	5	2/9/2010	--	--	**1,800**	**360**	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<0.10	<0.10	<0.080	<0.080	<10	**3.1**
	8	2/9/2010	--	--	50	**270**	<0.050	<0.050	0.70	<0.050	0.20	<0.50	<0.050	<0.050	<0.050	<0.040	<0.040	<5.0	1.1

TABLE 2

SOIL ANALYTICAL SUMMARY

Former Olympic Station

1436 Grant Avenue, San Lorenzo, California

Sample Location	Sample Depth (feet bgs)	Date Collected	Oil and Grease (mg/kg)	TPH-mo (mg/kg)	DRO (mg/kg)	GRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	TBA (mg/Kg)	DIPE (mg/Kg)	ETBE (mg/Kg)	TAME (mg/Kg)	1,2-DCA (mg/Kg)	EDB (mg/Kg)	Ethanol (mg/kg)	Naph-thalene (mg/kg)
Shallow Soil (≤10' bgs) ESL[1]:			**NE**	**NE**	**180**	**180**	**0.27**	**9.3**	**4.7**	**11**	**8.4**	**110**	**NE**	**NE**	**NE**	**0.48**	**0.044**	**NE**	**2.8**
Deep Soil (>10' bgs) ESL[1]:			**NE**	**NE**	**180**	**180**	**2.0**	**9.3**	**4.7**	**11**	**8.4**	**110**	**NE**	**NE**	**NE**	**0.48**	**1.0**	**NE**	**4.8**
B-9	3	2/11/2010	--	--	1.9	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	5	2/11/2010	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	10	2/11/2010	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	15	2/11/2010	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	20	2/11/2010	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	24.5	2/11/2010	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0.5	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
B-10	3	2/11/2010	--	--	2.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	5	2/11/2010	--	--	1.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	9.5	2/11/2010	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	15	2/11/2010	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	20	2/11/2010	--	--	1.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	24.5	2/11/2010	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
B-11	3	2/10/2010	--	--	2.1	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	5	2/10/2010	--	--	2.9	<1.0	<0.005	<0.005	<0.005	0.0078	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	8	2/10/2010	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	10	2/10/2010	--	--	2.7	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
B-12	3	2/11/2010	--	--	1.8	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	5	2/11/2010	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	10	2/11/2010	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	15	2/11/2010	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	20	2/11/2010	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	24.5	2/11/2010	--	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
B-13A	3	2/10/2010	--	--	6.1	<1.0	0.023	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	5	2/10/2010	--	--	1.2	<1.0	0.0060	<0.005	0.010	0.011	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
	7	2/10/2010	--	--	2.8	3.3	<0.005	<0.005	0.016	0.021	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
B-13C	11.5	2/12/2010	--	--	8.0	15	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.004	<0.004	<0.5	<0.005
Remediation Well Installation 2011																			
EX-1	6	5/19/2011	--	--	--	83	0.15	<0.020	1.3	0.041	0.076	--	--	--	--	--	--	--	--
	11	5/19/2011	--	--	--	110	1.5	0.19	1.7	3.5	0.21	--	--	--	--	--	--	--	--
	16	5/19/2011	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	0.046	--	--	--	--	--	--	--	--
	21	5/19/2011	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--
EX-2	11	5/19/2011	--	--	--	**340**	0.19	<0.10	0.31	<0.10	1.7	--	--	--	--	--	--	--	--
	16	5/19/2011	--	--	--	1.6	<0.005	<0.005	<0.005	<0.005	1.2	--	--	--	--	--	--	--	--
	21	5/19/2011	--	--	--	2.3	<0.005	<0.005	<0.005	<0.005	0.098	--	--	--	--	--	--	--	--

TABLE 2

SOIL ANALYTICAL SUMMARY

Former Olympic Station

1436 Grant Avenue, San Lorenzo, California

Sample Location	Sample Depth (feet bgs)	Date Collected	Oil and Grease (mg/kg)	TPH-mo (mg/kg)	DRO (mg/kg)	GRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	TBA (mg/Kg)	DIPE (mg/Kg)	ETBE (mg/Kg)	TAME (mg/Kg)	1,2-DCA (mg/Kg)	EDB (mg/Kg)	Ethanol (mg/kg)	Naph-thalene (mg/kg)
Shallow Soil (≤10' bgs) ESL[1]:			**NE**	**NE**	**180**	**180**	**0.27**	**9.3**	**4.7**	**11**	**8.4**	**110**	**NE**	**NE**	**NE**	**0.48**	**0.044**	**NE**	**2.8**
Deep Soil (>10' bgs) ESL[1]:			**NE**	**NE**	**180**	**180**	**2.0**	**9.3**	**4.7**	**11**	**8.4**	**110**	**NE**	**NE**	**NE**	**0.48**	**1.0**	**NE**	**4.8**
EX-3	6	5/19/2011	--	--	--	41	0.023	<0.010	<0.010	<0.010	<0.010	--	--	--	--	--	--	--	--
	11	5/19/2011	--	--	--	**340**	<0.10	<0.10	<0.10	<0.10	<0.10	--	--	--	--	--	--	--	--
	16	5/19/2011	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--
IW-1	6	5/20/2011	--	--	--	**220**	<0.050	<0.050	0.49	0.40	0.054	--	--	--	--	--	--	--	--
	11	5/20/2011	--	--	--	170	0.17	0.11	1.9	1.8	0.070	--	--	--	--	--	--	--	--
IW-2	6	5/20/2011	--	--	--	140	0.39	<0.050	2.9	0.17	<0.050	--	--	--	--	--	--	--	--
	11	5/20/2011	--	--	--	160	0.89	0.18	2.4	3.8	<0.050	--	--	--	--	--	--	--	--
	21	5/20/2011	--	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--

Explanation

TPH-mo = Total purgeable hydrocarbons as motor oil
DRO = Diesel range organics
GRO = Gasoline range organics (C4 - C13)
BTEX = Benzene, toluene, ethylbenzene, and xylenes
MTBE = Methyl tertiary butyl ether
TBA=Tertiary butyl alcohol
DIPE =Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
1,2-DCA=1,2-Dichloroethane
EDB = 1,2-Dibromoethane
mg/Kg = milligrams per kilogram
1 =

All data reported prior to 2011 provided by Conestoga-Rovers & Associates.

Analytical Methods

Oil and grease analyzed using EPA Method 5520 E&F
TPH-mo, DRO, and GRO analyzed using EPA Method SW8015B/DHS LUFT Manual
BTEX and MTBE analyzed prior to 2002 using EPA Method 8020
BTEX, MTBE, TBA, DIPE, ETBE, TAME, 1,2-DCA, and EDB analyzed using EPA Method SW8260B

Analytical Laboratory

Alpha Analytical, Inc. (ELAP #2019)

TABLE 4

SOIL VAPOR ANALYTICAL DATA
ENCINAL PROPERTIES
1436 GRANT AVE,
SAN LORENZO, CALIFORNIA

Sample ID	*Date Sampled*	*Depth (ft)*	*TPHg (ug/m^3)*	*Benzene (ug/m^3)*	*Toluene (ug/m^3)*	*Ethylbenzene (ug/m^3)*	*m,p-Xylene (ug/m^3)*	*o-Xylene (ug/m^3)*	*MTBE (ug/m^3)*	*Naphthalene (ug/m^3)*	*Helium (%)*	*Oxygen (%)*	*Methane (%)*	*Carbon Dioxide (%)*
SV-1	2/25/2010	5	36,000,000	18,000	<2,100	<2,500	<2,500	<2,500	<2,000	<12,000	<0.11	1.4	35	8.5
SV-2	2/25/2010	5	44,000,000	160,000	<2,500	<2,900	<2,900	<2,900	<2,400	<14,000	<0.13	1.2	13	9.0
SV-3	2/25/2010	5	52,000,000	52,000	<2,200	<2,500	<2,500	<2,500	<2,100	<12,000	<0.12	1.2	18	5.8
SV-4	2/25/2010	5	41,000,000	120,000	<4,400	<5,000	<5,000	<5,000	5,400	<24,000	<0.12	1.2	5.2	9.5
Duplicate Samples														
SV-2-D	2/25/2010	5	43,000,000	160,000	<2,400	<2,800	<2,800	<2,800	<2,300	<13,000	<0.13	1.1	13	8.9

Abbreviations and Analyses:

<n = Not dectected above laboratory detection limit, n.
ug/m^3 = Microgram per cubic meter.
% = Percent
ft = Measured in feet
MTBE = methyl tert-butyl ether
TPHg by EPA Method TO-3
Benzene, Toluene, Ethylbenzene, m,p-Xylenes, o-Xylenes, MTBE, & Naphthalene by modified EPA Method TO-15.
Oxygen, Methane, Carbon Dioxide, & Helium by ASTM D-1946

APPENDIX B

BORING LOGS / WELL CONSTRUCTION DETAILS AND GEOTRACKER ELECTRONIC SUBMITTAL CONFIRMATIONS

SOIL BORING LOG **Boring No. EX-1** **Sheet: 1 of 2**

Client	Former Olympic Station	Date	May 19, 2011
Address	1436 Grant Avenue	Drilling Co.	All Well Abandonment rig type: CME-75
	San Lorenzo, Ca.	Driller	Juan Ceja
Project No.	2115-1436-01	Method	Hollow Stem Auger Hole Diameter: 10 inches
Logged By:	Levi Ford	Sampler:	2" diameter x 18" long California Split Spoon
Well Pack	sand: 20 ft. to 4 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 20 ft. to 5 ft.
	bent: 4 ft. to 3 ft.		Casing Diameter: 4 in. Screen Slot Size: 0.020 in.
	grout: 3 ft. to 0 ft.	Depth to GW:	▽ first encountered: 11 feet bgs ▼ static:

Sample Type	Sample No.	Blow Count	Sample Time	Sample Recov.	Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
						1	SC	2" Asphalt, 2" rock backfill, borehole cleared with hand auger to 5 feet bgs.	
						2		Clayey Sand, SC, dark olive gray (5Y 3/2), moist, 80% very fine grained sand, 20% clay.	
						3	CL	Clay some silt, CL, dark olive gray (5Y 3/2), moist, low plasticity, 85% clay, 15% silt.	
						4			
						5			
		6 11				6		Clay, CL, dark olive gray (5Y 3/2), moist, medium plasticity, 100% clay	
S	EX-1 6'	16	1444	100		7			471
						8			
						9			
						10			
		5 7				11	▽	Same as above with 1" lenses of wet medium grained sand.	
S	EX-1 11'	10	1449	100		12			737
						13			
						14			
						15			
		7 10				16		Clay some silt, CL, dark yellowish brown (10YR 4/6), wet, low plasticity, 85% clay, 15% silt.	
S	EX-1 16'	16	1453	100		17			6.8
						18			
						19			
						20	ML		

Recovery

Comments:

Sample

PROFESSIONAL GEOLOGIST
Stephen J. Carter
No. 5577
STATE OF CALIFORNIA

STRATUS ENVIRONMENTAL, INC.

SOIL BORING LOG **Boring No. EX-1** **Sheet: 2 of 2**

Client	Former Olympic Station	Date	May 19, 2011
Address	1436 Grant Avenue	Drilling Co.	All Well Abandonment rig type: CME-75
	San Lorenzo, Ca.	Driller	Juan Ceja
Project No.	2115-1436-01	Method	Hollow Stem Auger Hole Diameter: 10 inches
Logged By:	Levi Ford	Sampler:	2" diameter x 18" long California Split Spoon
Well Pack	sand: 20 ft. to 4 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 20 ft. to 5 ft.
	bent: 4 ft. to 3 ft.		Casing Diameter: 4 in. Screen Slot Size: 0.020 in.
	grout: 3 ft. to 0 ft.	Depth to GW:	▽ first encountered: 11 feet bgs ▼ static:

Sample Type	Sample No.	Blow Count	Sample Time	Sample Recov.	Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
		6					ML	Clayey silt with sand, ML, dark yellowish brown (10YR 4/6), wet,	
		8				21		low plasticity, 60% silt, 25% clay, 15% very fine grained sand.	
S	EX-1 21'	12	1456	100					14.7
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			
						31			
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

Recovery

Sample

Comments: Drilled boring EX-1 to a total depth of 20 feet bgs and set well.

STRATUS ENVIRONMENTAL, INC.

SOIL BORING LOG **Boring No. EX-2** **Sheet: 1 of 2**

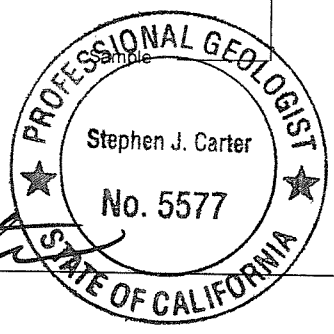
Client	Former Olympic Station	Date	May 19, 2011
Address	1436 Grant Avenue	Drilling Co.	All Well Abandonment rig type: CME-75
	San Lorenzo, CA.	Driller	Juan Ceja
Project No.	2115-1436-01	Method	Hollow Stem Auger Hole Diameter: 10 inches
Logged By:	Levi Ford	Sampler:	2" diameter x 18" long California Split Spoon
Well Pack	sand: 20 ft. to 4 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 20 ft. to 5 ft.
	bent: 4 ft. to 3 ft.		Casing Diameter: 4 in. Screen Slot Size: 0.020 in.
	grout: 3 ft. to 0 ft.	Depth to GW:	▽ first encountered: 6 feet bgs ▼ static

Sample Type	Sample No.	Blow Count	Sample Time	Sample Recov.	Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
						1		3" Asphalt, borehole cleared with hand auger to 5 feet bgs.	
						2		3"-1'6" Angular rock backfill	
						3		1'6"-5'6" Fine grained sand backfill	
						4			
						5			
		8						5'6"-6'6" Angular pea gravel backfill	
		9				6	▽		
S	EX-2 6'	8	0852	100					63
						7			
						8			
						9			
						10			
		5					CL	Silty clay , CL, dark olive gray (5Y 3/2), moist, low plasticity,	
		6				11		70% clay, 30% silt, 1" lenses of fine sand and gravel	
S	EX-2 11'	8	0855	100					165
						12			
						13			
						14			
						15			
		6						Clay with silt, CL, dark yellowish brown (10YR 4/6), wet, medium plasticity,	
		8				16		80% clay, 20% silt.	
S	EX-2 16'	11	0858	100					13
						17			
						18			
						19			
						20	SP		

Recovery

Sample

Comments:



STRATUS ENVIRONMENTAL, INC.

SOIL BORING LOG **Boring No. EX-2** **Sheet: 2 of 2**

Client	Former Olympic Station	Date	May 19, 2011
Address	1436 Grant Avenue	Drilling Co.	All Well Abandonment rig type: CME-75
	San Lorenzo, CA.	Driller	Juan Ceja
Project No.	2115-1436-01	Method	Hollow Stem Auger Hole Diameter: 10 inches
Logged By:	Levi Ford	Sampler:	2" diameter x 18" long California Split Spoon
Well Pack	sand: 20 ft. to 4 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 20 ft. to 5 ft.
	bent: 4 ft. to 3 ft.		Casing Diameter: 4 in. Screen Slot Size: 0.020 in.
	grout: 3 ft. to 0 ft.	Depth to GW:	▽ first encountered: 6 feet bgs ▼ static

Sample Type	Sample No.	Blow Count	Sample Time	Sample Recov.	Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
		4				21	SC	Clayey Sand, SC, dark yellowish brown (10YR 4/6), wet,	
		5						80% fine grained sand, 20% clay.	
S	EX-2 21'	6	0901	100					3
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			
						31			
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

Recovery

Sample

Comments: Drilled boring EX-2 to a total depth of 20 feet bgs and set well.

STRATUS ENVIRONMENTAL, INC.

SOIL BORING LOG **Boring No. EX-3** **Sheet: 1 of 2**

Client	Former Olympic Station	Date	May 19, 2011
Address	1436 Grant Avenue	Drilling Co.	All Well Abandonment rig type: CME-75
	San Lorenzo, Ca.	Driller	Juan Ceja
Project No.	2115-1436-01	Method	Hollow Stem Auger Hole Diameter: 10 inches
Logged By:	Levi Ford	Sampler:	2" diameter x 18" long California Split Spoon
Well Pack	sand: 20 ft. to 4 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 20 ft. to 5 ft.
	bent: 4 ft. to 3 ft.		Casing Diameter: 4 in. Screen Slot Size: 0.020 in.
	grout: 3 ft. to 0 ft.	Depth to GW:	▽ first encountered: 11 feet bgs ▼ static:

Sample Type	Sample No.	Blow Count	Sample Time	Sample Recov.	Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
						1	ML	3" asphalt, borehole cleared with hand auger to 5 feet bgs.	
						2		3"-1'6" Silt with clay, ML, dark olive gray (5Y 3/2), moist, low plasticity, 85% silt, 15% clay.	
						3		1'6"-3'6" Clay increases, 70% silt, 30% clay.	
						4		3'6"-5' Clay with silt, CL, dark olive gray (5Y 3/2), moist, medium plasticity, 75% clay, 25% silt.	
						5	CL		
		9 12				6		Clay, CL, dark olive gray (5Y 3/2), moist, medium plasticity, 100% clay.	
S	EX-3 6'	18	1123	100		7			222
						8			
						9			
		7				10			
S	EX-3 11'	10 14	1126	100%		11	▽	Same as above with trace medium grained sand, high plasticity and wet.	181
						12			
						13			
						14			
						15			
		5 7				16		Clay little silt, CL, yellowish brown (10YR 5/6), wet, medium plasticity, 90% clay, 10% silt, 1" lenses of medium grained sand.	
S	EX-3 16'	10	1129	100		17			0
						18			
						19			
						20	ML		

Recovery

Sample

Comments:

PROFESSIONAL GEOLOGIST
Stephen J. Carter
No. 5577
STATE OF CALIFORNIA

STRATUS ENVIRONMENTAL, INC.

SOIL BORING LOG **Boring No. EX-3** **Sheet: 2 of 2**

Client	Former Olympic Station	Date	May 19, 2011
Address	1436 Grant Avenue	Drilling Co.	All Well Abandonment rig type: CME-75
	San Lorenzo, Ca.	Driller	Juan Ceja
Project No.	2115-1436-01	Method	Hollow Stem Auger Hole Diameter: 10 inches
Logged By:	Levi Ford	Sampler:	2" diameter x 18" long California Split Spoon
Well Pack	sand: 20 ft. to 4 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 20 ft. to 5 ft.
	bent: 4 ft. to 3 ft.		Casing Diameter: 4 in. Screen Slot Size: 0.020 in.
	grout: 3 ft. to 0 ft.	Depth to GW:	▽ first encountered: 11 feet bgs ▼ static:

Sample Type	Sample No.	Blow Count	Sample Time	Sample Recov.	Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
		6				21	ML	Sandy silt with clay, ML, yellowish brown (10YR 5/6), wet, low plasticity, 40% silt, 25% clay, 35% fine grained sand.	
		9							
S	EX-3 21'	14	1132	100		22			0
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			
						31			
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

Recovery

Sample

Comments: Drilled boring EX-3 to a total depth of 20 feet bgs and set well.

STRATUS ENVIRONMENTAL, INC.

SOIL BORING LOG **Boring No. IW-1** **Sheet: 1 of 1**

Client	Former Olympic Station	Date	May 20, 2011
Address	1436 Grant Avenue	Drilling Co.	All Well Abandonment rig type: CME-75
	San Lorenzo, Ca.	Driller	Juan Ceja
Project No.	2115-1436-01	Method	Hollow Stem Auger Hole Diameter: 8 inches
Logged By:	Levi Ford	Sampler:	2" diameter x 18" long California Split Spoon
Well Pack	sand: 11.5 ft. to 8.5 ft.	Well Construction	Casing Material: Schedule 80 PVC Diffuser Interval: 11.5ft. to 9.5ft.
	bent: 8.5 ft. to 6.5 ft.		Casing Diameter: .75 in. Screen Slot Size:
	grout: 6.5 ft. to 0 ft.	Depth to GW:	▽ first encountered static ▼

Sample Type	Sample No.	Blow Count	Sample Time	Sample Recov.	Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
						1	SM	2" asphalt, 3" baserock, borehole cleared with hand auger to 5 feet bgs.	
						2		5"-2' Silty Sand, SM, dark yellowish brown (10YR 4/6), moist, 85% fine grained sand, 15% silt.	
						3	CL	2'-5' silty clay, CL, dark olive gray (5Y 3/2), moist, low plasticity, 60% clay, 40% silt.	
						4			
						5			
		5							
		8				6		Clay little silt, CL, dark olive gray (5Y 3/2), moist, medium plasticity 90% clay, 10% silt.	
S	IW-1 6'	14	0931	100					476
						7			
						8			
						9			
		6				10			
		9							
S	IW-1 11'	15	0936	100%		11			1078
						12		Same as above with 1" lenses of medium grained sand.	
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20			

Recovery = Sample

Comments: Drilled boring IW-1 to a total depth of 11.5 feet bgs and set well.

PROFESSIONAL GEOLOGIST
Stephen J. Carter
No. 5577
STATE OF CALIFORNIA

STRATUS ENVIRONMENTAL, INC.

SOIL BORING LOG **Boring No. IW-2** **Sheet: 1 of 1**

Client	Former Olympic Station	Date	May 20, 2011
Address	1436 Grant Avenue	Drilling Co.	All Well Abandonment rig type: CME-75
	San Lorenzo, Ca.	Driller	Juan Ceja
Project No.	2115-1436-01	Method	Hollow Stem Auger Hole Diameter: 8 inches
Logged By:	Levi Ford	Sampler:	2" diameter x 18" long California Split Spoon
Well Pack	sand: 16 ft. to 13 ft.	Well Construction	Casing Material: Schedule 80 PVC Diffuser Interval: 16 ft. to 14 ft.
	bent: 13 ft. to 11 ft.		Casing Diameter: .75 in. Screen Slot Size:
	grout: 11 ft. to 0 ft.	Depth to GW:	▽ first encountered static ▼

Sample Type	Sample No.	Blow Count	Sample Time	Sample Recov.	Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
						1	SM	3" asphalt, 2" baserock, borehole cleared with handauger to 5 feet bgs.	
						2		5"- 2'6" Silty Sand, SM, dark olive gray (5Y 3/2), moist, 80% fine grained sand, 20% silt.	
						3			
						4	CL	2'6"-4' silty clay, CL, dark olive gray (5Y 3/2), moist, low plasticity, 60% clay, 40% silt.	
		4				5		4'-6' Clay some silt, trace sand, dark olive gray (5Y 3/2), moist, low plasticity, 80% clay, 15% silt, 5% very fine grained sand.	
S	IW-2 6'	9 14	0831	100%		6			99
						7			
						8			
						9			
		6				10			
S	IW-2 11'	9 14	0835	100%		11		Same as above with trace medium grained sand.	67
						12			
						13			
						14			
						15			
		5 7				16			
S	IW-2 16'	7	0839	100		17		Clay some silt, CL, dark yellowish brown (10YR 4/6), moist, medium plasticity, 80% clay, 15% silt.	3
						18			
						19			
						20			

Recovery

Comments:

PROFESSIONAL GEOLOGIST
Stephen J. Carter
No. 5577
STATE OF CALIFORNIA

STRATUS ENVIRONMENTAL, INC.

SOIL BORING LOG **Boring No. SV-5** **Sheet: 1 of 1**

Client	Former Olympic Station	Date	May 20, 2011
Address	1436 Grant Avenue	Drilling Co.	All Well Abandonment rig type: N/A
	San Lorenzo, Ca.	Driller	Juan Ceja
Project No.	2115-1436-01	Method	Hand Auger Hole Diameter: 3.25 inches
Logged By:	Levi Ford	Sampler:	N/A
Well Pack	sand: 5.5 ft. to 4.5 ft.	Well Construction	Casing Material: Teflon Tubing Implant Interval: 5 ft.
	bent: 4.5 ft. to 3.5 ft.		Casing Diameter: .25 in. Screen Slot Size: 50 Micron
	grout: 3.5 ft. to 0 ft.	Depth to GW:	▽ first encountered static ▼

Sample Type	Sample No.	Blow Count	Sample Time	Sample Recov.	Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
						1	SP	3" asphalt, 2" baserock.	
						2		5"-2'6" Sand with silt, SP, dark olive gray (5Y3/2), moist, 80% very fine grained sand, 20% silt.	
						3	CL	2'6"-4' Clay with silt, CL, dark olive gray (5Y 3/2), moist, low plasticity, 80% clay, 20% silt.	
						4		4'-5'6" Clay little silt, CL, dark olive gray (5Y 3/2), moist, medium plasticity, 95% clay, 5% silt.	
						5			
						6			
						7			
						8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20			

Recovery _____

Sample _____

Comments: Hand Augered boring SG-5 to a total depth of 5.5 feet bgs and set well at 5 feet bgs.

PROFESSIONAL GEOLOGIST
Stephen J. Carter
No. 5577
STATE OF CALIFORNIA

STRATUS ENVIRONMENTAL, INC.

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_BORE FILE

SUCCESS

Your GEO_BORE file has been successfully submitted!

Submittal Type:	**GEO_BORE**
Facility Global ID:	**T0600102256**
Field Point:	**EX-1**
Facility Name:	**OLYMPIC STATION**
File Name:	**EX-1.pdf**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**10/25/2011 1:14:45 PM**
Confirmation Number:	**6442910730**

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_BORE FILE

SUCCESS

Your GEO_BORE file has been successfully submitted!

Submittal Type:	**GEO_BORE**
Facility Global ID:	**T0600102256**
Field Point:	**EX-2**
Facility Name:	**OLYMPIC STATION**
File Name:	**EX-2.pdf**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**10/25/2011 1:15:32 PM**
Confirmation Number:	**4654022157**

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_BORE FILE

SUCCESS

Your GEO_BORE file has been successfully submitted!

Submittal Type:	**GEO_BORE**
Facility Global ID:	**T0600102256**
Field Point:	**EX-3**
Facility Name:	**OLYMPIC STATION**
File Name:	**EX-3.pdf**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**10/25/2011 1:16:50 PM**
Confirmation Number:	**1575208306**

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_BORE FILE

SUCCESS

Your GEO_BORE file has been successfully submitted!

Submittal Type:	**GEO_BORE**
Facility Global ID:	**T0600102256**
Field Point:	**IW-1**
Facility Name:	**OLYMPIC STATION**
File Name:	**IW-1.pdf**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**10/25/2011 1:17:29 PM**
Confirmation Number:	**9654998719**

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_BORE FILE

SUCCESS

Your GEO_BORE file has been successfully submitted!

Submittal Type:	**GEO_BORE**
Facility Global ID:	**T0600102256**
Field Point:	**IW-2**
Facility Name:	**OLYMPIC STATION**
File Name:	**IW-2.pdf**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**10/25/2011 1:18:01 PM**
Confirmation Number:	8671772778

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_BORE FILE

SUCCESS

Your GEO_BORE file has been successfully submitted!

Submittal Type:	**GEO_BORE**
Facility Global ID:	**T0600102256**
Field Point:	**SV-5**
Facility Name:	**OLYMPIC STATION**
File Name:	**SV-5.pdf**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**10/25/2011 1:18:31 PM**
Confirmation Number:	**6355941712**

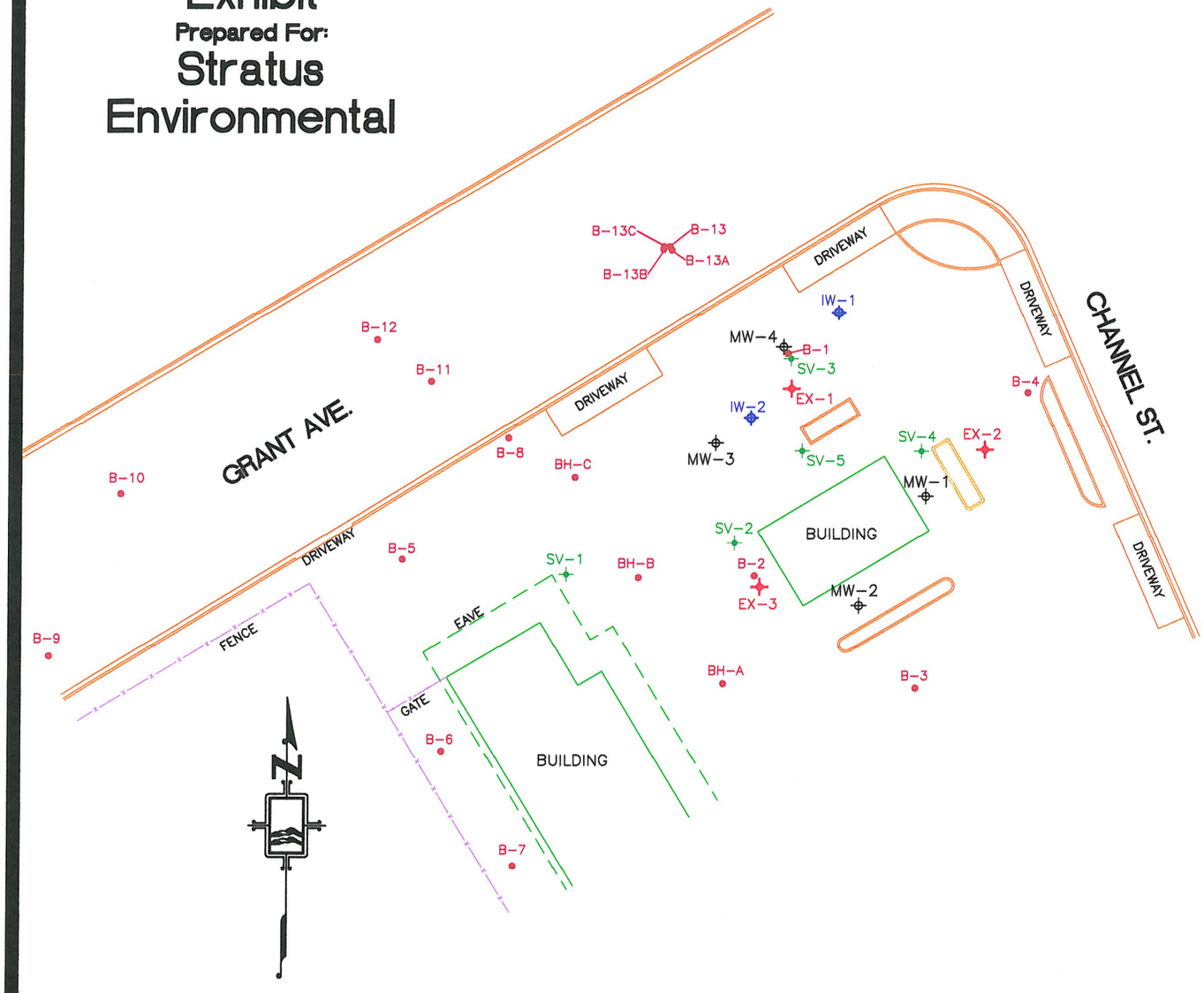
APPENDIX C

SURVEYOR'S REPORT AND GEOTRACKER ELECTRONIC SUBMITTAL CONFIRMATIONS

Monitoring Well Exhibit

Prepared For:

Stratus Environmental



1"=40'

0 20 40 80 120

SCALE IN FEET

DESC.	NORTHING	EASTING	LATITUDE	LONGITUDE	EL. PVC	EL. RIM	EL. GND
MW-1	2073110.1	6086281.0	37.6769020	-122.1427262	18.60	19.04	
MW-2	2073077.2	6086261.0	37.6768106	-122.1427932	18.00	18.43	
MW-3	2073126.0	6086218.5	37.6769427	-122.1429430	17.95	18.37	
MW-4	2073155.0	6086238.6	37.6770233	-122.1428754	17.99	18.34	
EX-1	2073142.4	6086241.1	37.6769888	-122.1428659	18.14	18.54	
EX-2	2073124.0	6086298.7	37.6769411	-122.1426660	18.14	18.53	
EX-3	2073082.6	6086231.8	37.6768243	-122.1428945	17.63	18.14	
IW-1	2073165.3	6086255.0	37.6770525	-122.1428193		18.41	
IW-2	2073133.6	6086229.1	37.6769642	-122.1429069		18.50	
SV-1	2073086.3	6086174.1	37.6768315	-122.1430940		18.34	
SV-2	2073095.9	6086224.3	37.6768603	-122.1429212		18.37	
SV-3	2073151.4	6086240.9	37.6770136	-122.1428672		18.38	
SV-4	2073123.5	6086279.8	37.6769389	-122.1427312		18.92	
SV-5	2073123.6	6086244.2	37.6769374	-122.1428541		18.79	
B-1	2073153.0	6086239.9	37.6770179	-122.1428709			18.3
B-2	2073086.0	6086230.2	37.6768335	-122.1429001			18.3
B-3	2073052.2	6086278.1	37.6767431	-122.1427329			18.0
B-4	2073141.3	6086311.4	37.6769891	-122.1426229			18.1
B-5	2073090.8	6086125.6	37.6768415	-122.1432620			18.1
B-6	2073033.1	6086137.4	37.6766836	-122.1432178			18.2
B-7	2072998.5	6086158.6	37.6765898	-122.1431422			18.4
B-8	2073127.3	6086157.0	37.6769435	-122.1431558			17.7
B-9	2073061.4	6086020.6	37.6767558	-122.1436230			17.9
B-10	2073110.2	6086041.8	37.6768909	-122.1435526			18.4
B-11	2073144.4	6086134.0	37.6769891	-122.1432360			18.7
B-12	2073156.8	6086117.8	37.6770226	-122.1432928			18.7
B-13	2073185.1	6086204.8	37.6771043	-122.1429940			18.9
B-13A	2073184.0	6086205.4	37.6771015	-122.1429919			18.8
B-13B	2073184.3	6086202.9	37.6771020	-122.1430006			18.9
B-13C	2073185.1	6086203.1	37.6771042	-122.1430000			18.9
BH-A	2073053.5	6086221.0	37.6767438	-122.1429301			18.3
BH-B	2073085.4	6086195.7	37.6768301	-122.1430193			18.2
BH-C	2073115.5	6086176.8	37.6769120	-122.1430866			18.2

BASIS OF COORDINATES AND ELEVATIONS:

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3 COORDINATES FROM GPS OBSERVATIONS USING CSDS VIRTUAL SURVEY NETWORK.

COORDINATE DATUM IS NAD 83.

REFERENCE GEOID IS GEOID03.

VERTICAL DATUM IS NAVD 88 FROM GPS OBSERVATIONS.

Former Olympic Service Station
1436 Grant Ave.
San Lorenzo
Alameda County
California

Morrow Surveying
LAND SURVEYORS

1255 Starboard Drive
West Sacramento
California 95691
(916) 372-8124
mark@morrowsurveying.com

Date: June, 2011
Field: 6-15-11
Scale: 1"=40'
Sheet 1 of 1
Revised:
Field Book: MW-53
Dwg. No.7502-106 MAM

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_XY FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	**GEO_XY**
Submittal Title:	**GEO _XY Points**
Facility Global ID:	**T0600102256**
Facility Name:	**OLYMPIC STATION**
File Name:	**GEO_XY.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**6/21/2011 7:54:59 AM**
Confirmation Number:	**2364163994**

VIEW GEO_XY SUBMITTAL DATA ON MAP

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_Z FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	**GEO_Z**
Submittal Title:	**Geo_Z**
Facility Global ID:	**T0600102256**
Facility Name:	**OLYMPIC STATION**
File Name:	**GEO_Z.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**6/21/2011 7:58:27 AM**
Confirmation Number:	**8109601616**

APPENDIX D

WASTE DISPOSAL CERTIFICATES

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC.
1945 CONCOURSE DRIVE, SAN JOSE, CA 95131
PHONE: 408.433.1990 FAX: 408.433.9521

CERTIFICATE OF DISPOSAL

Generator Name:	Jaber Family Trust	Facility Name:	Former Olympic Station
Address:	2801 Encinal Avenue	Address:	1436 Grant Avenue
	Alameda, CA 94501		San Lorenzo, CA
Contact:	Phil Jaber	Facility Contact:	Steve Carter, Status Environmental
Phone:	510-523-4923	Phone:	530-676-6008

IWM Job #:	99708-DS
Description of Waste:	10 Drum(s) of
	Non-Hazardous
	Soil
Removal Date:	6/14/11
Ticket #:	RSVRL140611

Transporter Information

Name:	IWM, Inc.
Address:	1945 Concourse Drive
	San Jose, CA 95131
Phone:	(408) 433-1990

Disposal Facility Information

Name:	Republic Services Vasco Road Landfill
Address:	4001 N. Vasco Road
	Livermore, CA 94550
Phone:	(925) 447-0491

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

William T. DeLon William T. DeLon
Authorized Representative (Print Name and Signature)

6/14/11
Date

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC.
1945 CONCOURSE DRIVE, SAN JOSE, CA 95131
PHONE: 408.433.1990 FAX: 408.433.9521

CERTIFICATE OF DISPOSAL

Generator Name:	Jaber Family Trust	Facility Name:	Former Olympic Station
Address:	2801 Encinal Avenue	Address:	1436 Grant Avenue
	Alameda, CA 94501		San Lorenzo, CA
Contact:	Phil Jaber	Facility Contact:	Steve Carter, Stratus Environmental
Phone:	510-523-4923	Phone:	530-676-6008

IWM Job #:	99709-DW
Description of Waste:	9 Drum(s) of
	Non-Hazardous
	Water
Removal Date:	6/14/11
Ticket #:	SP140611-MISC

Transporter Information

Name:	IWM, Inc.
Address:	1945 Concourse Drive
	San Jose, CA 95131
Phone:	(408) 433-1990

Disposal Facility Information

Name:	Seaport Refining & Environmental
Address:	700 Seaport Blvd
	Redwood City, CA 94063
Phone:	(650) 364-1024

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

William T. DeLon William T. DeLon
Authorized Representative (Print Name and Signature)

6/14/11
Date

NON-HAZARDOUS WATER TRANSPORT FORM

Ticket #: SP 07021 -MISC

GENERATOR INFORMATION

Name: Phil Jaber
Company: Jaber Family Trust
Address: 2801 Encinal Avenue
City, State Zip: Alameda, CA 94501
Phone: 510-523-4923

CUSTOMER INFORMATION

IWM, Inc.
950 Ames Avenue
Milpitas, CA 95035
Phone (408) 942-8955

P.O. Number: 99699-TK

DESCRIPTION OF WATER: **Non-Hazardous Waste Water**
NON-HAZARDOUS WASTE WATER, MONITORING WELL PURGE WATER AND/OR AUGER RINSATE, TANK RINSATE OR ABOVE DESCRIBED WATER. THIS WATER MAY CONTAIN DISSOLVED HYDROCARBONS. I CERTIFY THAT THE ABOVE NAMED MATERIAL IS A LIQUID EXEMPT FROM RCRA PER 40 CFR 261.4 (b)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

Tom DeLoach for Phil Jaber
Generator/Authorized Agent

Sign

6/7/11
Date

SITE INFORMATION

Former Olympian Station
1436 Grant Avenue
Oakland, CA

GROSS	
TARE	
NET	
TOTAL GALLONS	4,700

Calculated at 8.34lbs per USG

TRANSPORTER INFORMATION

IWM, Inc.
950 Ames Avenue
Milpitas, CA 95035
Phone (408) 942-8955

Truck ID: 106 / 114

Driver: Joe Miller
Print Full Name & Sign

6-7-11
Date

TIME OUT	636 AM
TIME IN	600 AM
TIME SPENT	

DISPOSAL FACILITY INFORMATION

Seaport Environmental
675 Seaport Boulevard
Redwood City, CA 94063
Phone (650) 364-1024

Approval Number: 302-640

Solid %Wt: 0

pH: 7

Solids Surcharge ¢ / USG:

Received by: Hector Arroyo Hector Arroyo 6-8-11
Print Full Name & Sign Date

Revised: 7/13/01

NON-HAZARDOUS WATER TRANSPORT FORM

Ticket #: SP080611 -MISC1

GENERATOR INFORMATION

Name: Phil Jaber
Company: Jaber Family Trust
Address: 2801 Encinal Avenue
City, State Zip: Alameda, CA 94501
Phone: 510-523-4923

CUSTOMER INFORMATION

IWM, Inc.
950 Ames Avenue
Milpitas, CA 95035
Phone (408) 942-8955

P.O. Number: 99699-TK

DESCRIPTION OF WATER: **Non-Hazardous Waste Water**
NON-HAZARDOUS WASTE WATER, MONITORING WELL PURGE WATER AND/OR AUGER RINSATE, TANK RINSATE OR ABOVE DESCRIBED WATER. THIS WATER MAY CONTAIN DISSOLVED HYDROCARBONS. I CERTIFY THAT THE ABOVE NAMED MATERIAL IS A LIQUID EXEMPT FROM RCRA PER 40 CFR 261.4 (b)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

TOM DEVON for Phil Jaber
Generator/Authorized Agent

Tom Devon 6/8/11
Sign Date

SITE INFORMATION

Former Olympian Station
1436 Grant Avenue
Oakland, CA

GROSS	
TARE	
NET	
TOTAL GALLONS	2,600

Calculated at 8.34lbs per USG

TRANSPORTER INFORMATION

IWM, Inc.
950 Ames Avenue
Milpitas, CA 95035
Phone (408) 942-8955

Truck ID: 106 / 114

Driver: JOE MILLER Joe Miller 6-8-11
Print Full Name & Sign Date

TIME OUT	1043 AM
TIME IN	1015 AM
TIME SPENT	

DISPOSAL FACILITY INFORMATION

Seaport Environmental
675 Seaport Boulevard
Redwood City, CA 94063
Phone (650) 364-1024

Approval Number: 302-640

Solid %Wt: 0

pH: 7

Solids Surcharge ¢ / USG:

Received by: Hector Arroyo Hector Arroyo 6-8-11
Print Full Name & Sign Date

Revised 7/13/01

NON-HAZARDOUS WATER TRANSPORT FORM

Ticket #: SP080611-MISC2

GENERATOR INFORMATION

Name: Phil Jaber
Company: Jaber Family Trust
Address: 2801 Encinal Avenue
City, State Zip: Alameda, CA 94501
Phone: 510-523-4923

CUSTOMER INFORMATION

IWM, Inc.
950 Ames Avenue
Milpitas, CA 95035
Phone (408) 942-8955

P.O. Number: 99699-TK

DESCRIPTION OF WATER: **Non-Hazardous Waste Water**
NON-HAZARDOUS WASTE WATER, MONITORING WELL PURGE WATER AND/OR AUGER RINSATE, TANK RINSATE OR ABOVE DESCRIBED WATER. THIS WATER MAY CONTAIN DISSOLVED HYDROCARBONS. I CERTIFY THAT THE ABOVE NAMED MATERIAL IS A LIQUID EXEMPT FROM RCRA PER 40 CFR 261.4 (b)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

Tom DeLay for Phil Jaber
Generator/Authorized Agent

Sign

6/8/11
Date

SITE INFORMATION

Former Olympian Station
1436 Grant Avenue
Oakland, CA

GROSS	
TARE	
NET	
TOTAL GALLONS	3,000

Calculated at 8.34lbs per USG

TRANSPORTER INFORMATION

IWM, Inc.
950 Ames Avenue
Milpitas, CA 95035
Phone (408) 942-8955

Truck ID: 106 /114

Driver: Joe Miller
Print Full Name & Sign

6-8-11
Date

TIME OUT	1040 PM
TIME IN	1000 PM
TIME SPENT	

DISPOSAL FACILITY INFORMATION

Seaport Environmental
675 Seaport Boulevard
Redwood City, CA 94063
Phone (650) 364-1024

Approval Number: 302-640

Solid %Wt: 0

pH: 7

Solids Surcharge ¢ / USG:

Received by: Hector Arroyo Hector Arroyo 6-8-11
Print Full Name & Sign Date

Revised: 7/13/01

NON-HAZARDOUS WATER TRANSPORT FORM

Ticket #: SP090611 -MISC

GENERATOR INFORMATION

Name: Phil Jaber
Company: Jaber Family Trust
Address: 2801 Encinal Avenue
City, State Zip: Alameda, CA 94501
Phone: 510-523-4923

CUSTOMER INFORMATION

IWM, Inc.
950 Ames Avenue
Milpitas, CA 95035
Phone (408) 942-8955

P.O. Number: 99699-TK

DESCRIPTION OF WATER: **Non-Hazardous Waste Water**
NON-HAZARDOUS WASTE WATER, MONITORING WELL PURGE WATER AND/OR AUGER RINSATE, TANK RINSATE OR ABOVE DESCRIBED WATER. THIS WATER MAY CONTAIN DISSOLVED HYDROCARBONS. I CERTIFY THAT THE ABOVE NAMED MATERIAL IS A LIQUID EXEMPT FROM RCRA PER 40 CFR 261.4 (b)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

Tom Dean for Phil Jaber
Generator/Authorized Agent

Sign

6/9/11
Date

SITE INFORMATION

Former Olympian Station
1436 Grant Avenue
Oakland, CA

GROSS	
TARE	
NET	
TOTAL GALLONS	4,000

Calculated at 8.34lbs per USG

TRANSPORTER INFORMATION

IWM, Inc.
950 Ames Avenue
Milpitas, CA 95035
Phone (408) 942-8955

Truck ID: 16/114

Driver: Joe Miller
Print Full Name & Sign

6-9-11
Date

TIME OUT	1030AM
TIME IN	948AM
TIME SPENT	

DISPOSAL FACILITY INFORMATION

Seaport Environmental
675 Seaport Boulevard
Redwood City, CA 94063
Phone (650) 364-1024

Approval Number: 302-640

Solid %Wt: 0

pH: 7

Solids Surcharge ¢ / USG:

Received by: Hector Arroyo Hector Arroyo 6-9-11
Print Full Name & Sign Date

Revised: 7/13/01

NON-HAZARDOUS WATER TRANSPORT FORM

Ticket #: SP/006 // -MISC /

GENERATOR INFORMATION

Name:	Phil Jaber
Company:	Jaber Family Trust
Address:	2801 Encinal Avenue
City, State Zip	Alameda, CA 94501
Phone:	510-523-4923

CUSTOMER INFORMATION

IWM, Inc.
950 Ames Avenue
Milpitas, CA 95035
Phone (408) 942-8955

P.O. Number: 99699-TK

DESCRIPTION OF WATER: **Non-Hazardous Waste Water**
NON-HAZARDOUS WASTE WATER, MONITORING WELL PURGE WATER AND/OR AUGER RINSATE, TANK RINSATE OR ABOVE DESCRIBED WATER. THIS WATER MAY CONTAIN DISSOLVED HYDROCARBONS. I CERTIFY THAT THE ABOVE NAMED MATERIAL IS A LIQUID EXEMPT FROM RCRA PER 40 CFR 261.4 (b)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

Tom DeLoach for Phil Jaber
Generator/Authorized Agent

Sign 6/10/11 Date

SITE INFORMATION

Former Olympian Station
1436 Grant Avenue
Oakland, CA

GROSS	
TARE	
NET	
TOTAL GALLONS	6,000

Calculated at 8.34lbs per USG

TRANSPORTER INFORMATION

IWM, Inc.
950 Ames Avenue
Milpitas, CA 95035
Phone (408) 942-8955

Truck ID: 106 /114

Driver: JOE MILLER Print Full Name & Sign 6/10-11 Date

TIME OUT	824 AM
TIME IN	730 AM
TIME SPENT	

DISPOSAL FACILITY INFORMATION

Seaport Environmental
675 Seaport Boulevard
Redwood City, CA 94063
Phone (650) 364-1024

Approval Number: 302-640

Solid %Wt: 0

pH: 7

Solids Surcharge ¢ / USG:

Received by: Hector Arroyo Print Full Name & Sign Hector Arroyo 6-10-11 Date

Revised: 7/13/01

NON-HAZARDOUS WATER TRANSPORT FORM

Ticket #: SP1006 11 -MISC2

GENERATOR INFORMATION

Name:	Phil Jaber
Company:	Jaber Family Trust
Address:	2801 Encinal Avenue
City, State Zip	Alameda, CA 94501
Phone:	510-523-4923

CUSTOMER INFORMATION

IWM, Inc.
950 Ames Avenue
Milpitas, CA 95035
Phone (408) 942-8955

P.O. Number: 99699-TK

DESCRIPTION OF WATER: **Non-Hazardous Waste Water**
NON-HAZARDOUS WASTE WATER, MONITORING WELL PURGE WATER AND/OR AUGER RINSATE, TANK RINSATE OR ABOVE DESCRIBED WATER. THIS WATER MAY CONTAIN DISSOLVED HYDROCARBONS. I CERTIFY THAT THE ABOVE NAMED MATERIAL IS A LIQUID EXEMPT FROM RCRA PER 40 CFR 261.4 (b)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

Tom DeLon for Phil Jaber
Generator/Authorized Agent

Sign

6/10/11
Date

SITE INFORMATION

Former Olympian Station
1436 Grant Avenue
Oakland, CA

GROSS	
TARE	
NET	
TOTAL GALLONS	3,000

Calculated at 8.34lbs per USG

TRANSPORTER INFORMATION

IWM, Inc.
950 Ames Avenue
Milpitas, CA 95035
Phone (408) 942-8955

Truck ID: 106/114

Driver: Joe Miller
Print Full Name & Sign

6/10/11
Date

TIME OUT	1158 PM
TIME IN	1130 PM
TIME SPENT	

DISPOSAL FACILITY INFORMATION

Seaport Environmental
675 Seaport Boulevard
Redwood City, CA 94063
Phone (650) 364-1024

Approval Number	Solid %Wt	pH
302-640	0	7

Solids Surcharge ¢ / USG

Received by: Arroyo Hector Arroyo
Print Full Name & Sign

Hector Arroyo 6/10/11
Date

Revised: 7/13/01

NON-HAZARDOUS WATER TRANSPORT FORM

Ticket #: SP/140611 -MISC

GENERATOR INFORMATION

Name: Phil Jaber
Company: Jaber Family Trust
Address: 2801 Encinal Avenue
City, State Zip: Alameda, CA 94501
Phone: 510-523-4923

CUSTOMER INFORMATION

IWM, Inc.
950 Ames Avenue
Milpitas, CA 95035
Phone (408) 942-8955

P.O. Number: 99699-TK

DESCRIPTION OF WATER: **Non-Hazardous Waste Water**
NON-HAZARDOUS WASTE WATER, MONITORING WELL PURGE WATER AND/OR AUGER RINSATE, TANK RINSATE OR ABOVE DESCRIBED WATER. THIS WATER MAY CONTAIN DISSOLVED HYDROCARBONS. I CERTIFY THAT THE ABOVE NAMED MATERIAL IS A LIQUID EXEMPT FROM RCRA PER 40 CFR 261.4 (b)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

Tom DeLoach for Phil Jaber — Generator/Authorized Agent
Sign — 6/14/11 Date

SITE INFORMATION

Former Olympian Station
1436 Grant Avenue
Oakland, CA

GROSS	
TARE	
NET	
TOTAL GALLONS	6,150

Calculated at 8.34lbs per USG

TRANSPORTER INFORMATION

IWM, Inc.
950 Ames Avenue
Milpitas, CA 95035
Phone (408) 942-8955

Truck ID: 106/114

Driver: JOE MILLER — Print Full Name & Sign — 6-14-11 Date

TIME OUT	
TIME IN	1046 AM
TIME SPENT	1150 AM

DISPOSAL FACILITY INFORMATION

Seaport Environmental
675 Seaport Boulevard
Redwood City, CA 94063
Phone (650) 364-1024

Approval Number: 302-640
Solid %Wt: 0
pH: 7
Solids Surcharge ¢ / USG:

Received by: Hector Arroyo — Print Full Name & Sign — Hector Arroyo 6-14-11 Date

Revised: 7/13/01

APPENDIX E

SOIL ANALYTICAL REPORT, CHAIN-OF-CUSTODY DOCUMENTATION, AND GEOTRACKER ELECTRONIC SUBMITTAL CONFIRMATION

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Steve Carter
Phone: (530) 676-6008
Fax: (530) 676-6005
Date Received : 05/25/11

Job: 2115-1436-01/Former Olympic Station

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

	Parameter	Concentration		Reporting Limit	Date Extracted	Date Analyzed
Client ID : **EX-1 6ft.**						
Lab ID : STR11052543-01A	TPH-P (GRO)	83,000		4,000 µg/Kg	05/26/11	05/26/11
Date Sampled 05/19/11 14:44	Methyl tert-butyl ether (MTBE)	76		20 µg/Kg	05/26/11	05/26/11
	Benzene	150		20 µg/Kg	05/26/11	05/26/11
	Toluene	ND	V	20 µg/Kg	05/26/11	05/26/11
	Ethylbenzene	1,300		20 µg/Kg	05/26/11	05/26/11
	m,p-Xylene	41		20 µg/Kg	05/26/11	05/26/11
	o-Xylene	ND	V	20 µg/Kg	05/26/11	05/26/11
Client ID : **EX-1 11ft.**						
Lab ID : STR11052543-02A	TPH-P (GRO)	110,000		4,000 µg/Kg	05/26/11	05/26/11
Date Sampled 05/19/11 14:49	Methyl tert-butyl ether (MTBE)	210		20 µg/Kg	05/26/11	05/26/11
	Benzene	1,500		20 µg/Kg	05/26/11	05/26/11
	Toluene	190		20 µg/Kg	05/26/11	05/26/11
	Ethylbenzene	1,700		20 µg/Kg	05/26/11	05/26/11
	m,p-Xylene	3,300		20 µg/Kg	05/26/11	05/26/11
	o-Xylene	210		20 µg/Kg	05/26/11	05/26/11
Client ID : **EX-1 16ft.**						
Lab ID : STR11052543-03A	TPH-P (GRO)	ND		1,000 µg/Kg	05/26/11	05/26/11
Date Sampled 05/19/11 14:53	Methyl tert-butyl ether (MTBE)	46		5.0 µg/Kg	05/26/11	05/26/11
	Benzene	ND		5.0 µg/Kg	05/26/11	05/26/11
	Toluene	ND		5.0 µg/Kg	05/26/11	05/26/11
	Ethylbenzene	ND		5.0 µg/Kg	05/26/11	05/26/11
	m,p-Xylene	ND		5.0 µg/Kg	05/26/11	05/26/11
	o-Xylene	ND		5.0 µg/Kg	05/26/11	05/26/11
Client ID : **EX-1 21ft.**						
Lab ID : STR11052543-04A	TPH-P (GRO)	ND		1,000 µg/Kg	05/26/11	05/26/11
Date Sampled 05/19/11 14:56	Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	05/26/11	05/26/11
	Benzene	ND		5.0 µg/Kg	05/26/11	05/26/11
	Toluene	ND		5.0 µg/Kg	05/26/11	05/26/11
	Ethylbenzene	ND		5.0 µg/Kg	05/26/11	05/26/11
	m,p-Xylene	ND		5.0 µg/Kg	05/26/11	05/26/11
	o-Xylene	ND		5.0 µg/Kg	05/26/11	05/26/11
Client ID : **EX-2 11ft.**						
Lab ID : STR11052543-05A	TPH-P (GRO)	340,000		20,000 µg/Kg	05/26/11	05/26/11
Date Sampled 05/19/11 08:55	Methyl tert-butyl ether (MTBE)	1,700		100 µg/Kg	05/26/11	05/26/11
	Benzene	190		100 µg/Kg	05/26/11	05/26/11
	Toluene	ND	V	100 µg/Kg	05/26/11	05/26/11
	Ethylbenzene	310		100 µg/Kg	05/26/11	05/26/11
	m,p-Xylene	ND	V	100 µg/Kg	05/26/11	05/26/11
	o-Xylene	ND	V	100 µg/Kg	05/26/11	05/26/11

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
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Client ID :	**EX-2 16ft.**						
Lab ID :	STR11052543-06A	TPH-P (GRO)	1,600		1,000 µg/Kg	05/26/11	05/26/11
Date Sampled	05/19/11 08:58	Methyl tert-butyl ether (MTBE)	1,200		5.0 µg/Kg	05/26/11	05/26/11
		Benzene	ND		5.0 µg/Kg	05/26/11	05/26/11
		Toluene	ND		5.0 µg/Kg	05/26/11	05/26/11
		Ethylbenzene	ND		5.0 µg/Kg	05/26/11	05/26/11
		m,p-Xylene	ND		5.0 µg/Kg	05/26/11	05/26/11
		o-Xylene	ND		5.0 µg/Kg	05/26/11	05/26/11
Client ID :	**EX-2 21ft.**						
Lab ID :	STR11052543-07A	TPH-P (GRO)	2,300		1,000 µg/Kg	05/26/11	05/26/11
Date Sampled	05/19/11 09:01	Methyl tert-butyl ether (MTBE)	98		5.0 µg/Kg	05/26/11	05/26/11
		Benzene	ND		5.0 µg/Kg	05/26/11	05/26/11
		Toluene	ND		5.0 µg/Kg	05/26/11	05/26/11
		Ethylbenzene	ND		5.0 µg/Kg	05/26/11	05/26/11
		m,p-Xylene	ND		5.0 µg/Kg	05/26/11	05/26/11
		o-Xylene	ND		5.0 µg/Kg	05/26/11	05/26/11
Client ID :	**EX-3 6ft.**						
Lab ID :	STR11052543-08A	TPH-P (GRO)	41,000		2,000 µg/Kg	05/27/11	05/27/11
Date Sampled	05/19/11 11:23	Methyl tert-butyl ether (MTBE)	ND	V	10 µg/Kg	05/27/11	05/27/11
		Benzene	23		10 µg/Kg	05/27/11	05/27/11
		Toluene	ND	V	10 µg/Kg	05/27/11	05/27/11
		Ethylbenzene	ND	V	10 µg/Kg	05/27/11	05/27/11
		m,p-Xylene	ND	V	10 µg/Kg	05/27/11	05/27/11
		o-Xylene	ND	V	10 µg/Kg	05/27/11	05/27/11
Client ID :	**EX-3 11ft.**						
Lab ID :	STR11052543-09A	TPH-P (GRO)	340,000		20,000 µg/Kg	05/27/11	05/27/11
Date Sampled	05/19/11 11:26	Methyl tert-butyl ether (MTBE)	ND	V	100 µg/Kg	05/27/11	05/27/11
		Benzene	ND	V	100 µg/Kg	05/27/11	05/27/11
		Toluene	ND	V	100 µg/Kg	05/27/11	05/27/11
		Ethylbenzene	ND	V	100 µg/Kg	05/27/11	05/27/11
		m,p-Xylene	ND	V	100 µg/Kg	05/27/11	05/27/11
		o-Xylene	ND	V	100 µg/Kg	05/27/11	05/27/11
Client ID :	**EX-3 16ft.**						
Lab ID :	STR11052543-10A	TPH-P (GRO)	ND		1,000 µg/Kg	05/26/11	05/26/11
Date Sampled	05/19/11 11:29	Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	05/26/11	05/26/11
		Benzene	ND		5.0 µg/Kg	05/26/11	05/26/11
		Toluene	ND		5.0 µg/Kg	05/26/11	05/26/11
		Ethylbenzene	ND		5.0 µg/Kg	05/26/11	05/26/11
		m,p-Xylene	ND		5.0 µg/Kg	05/26/11	05/26/11
		o-Xylene	ND		5.0 µg/Kg	05/26/11	05/26/11
Client ID :	**IW-1 6ft.**						
Lab ID :	STR11052543-11A	TPH-P (GRO)	220,000		10,000 µg/Kg	05/26/11	05/26/11
Date Sampled	05/20/11 09:31	Methyl tert-butyl ether (MTBE)	54		50 µg/Kg	05/26/11	05/26/11
		Benzene	ND	V	50 µg/Kg	05/26/11	05/26/11
		Toluene	ND	V	50 µg/Kg	05/26/11	05/26/11
		Ethylbenzene	490		50 µg/Kg	05/26/11	05/26/11
		m,p-Xylene	400		50 µg/Kg	05/26/11	05/26/11
		o-Xylene	ND	V	50 µg/Kg	05/26/11	05/26/11
Client ID :	**IW-1 11ft.**						
Lab ID :	STR11052543-12A	TPH-P (GRO)	170,000		10,000 µg/Kg	05/26/11	05/26/11
Date Sampled	05/20/11 09:36	Methyl tert-butyl ether (MTBE)	70		50 µg/Kg	05/26/11	05/26/11
		Benzene	170		50 µg/Kg	05/26/11	05/26/11
		Toluene	110		50 µg/Kg	05/26/11	05/26/11
		Ethylbenzene	1,900		50 µg/Kg	05/26/11	05/26/11
		m,p-Xylene	1,400		50 µg/Kg	05/26/11	05/26/11
		o-Xylene	370		50 µg/Kg	05/26/11	05/26/11

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Client ID :	**IW-2 6ft.**						
Lab ID :	STR11052543-13A	TPH-P (GRO)	140,000		10,000 µg/Kg	05/26/11	05/26/11
Date Sampled	05/20/11 08:31	Methyl tert-butyl ether (MTBE)	ND	V	50 µg/Kg	05/26/11	05/26/11
		Benzene	390		50 µg/Kg	05/26/11	05/26/11
		Toluene	ND	V	50 µg/Kg	05/26/11	05/26/11
		Ethylbenzene	2,900		50 µg/Kg	05/26/11	05/26/11
		m,p-Xylene	170		50 µg/Kg	05/26/11	05/26/11
		o-Xylene	ND	V	50 µg/Kg	05/26/11	05/26/11
Client ID :	**IW-2 11ft.**						
Lab ID :	STR11052543-14A	TPH-P (GRO)	160,000		10,000 µg/Kg	05/26/11	05/26/11
Date Sampled	05/20/11 08:35	Methyl tert-butyl ether (MTBE)	ND	V	50 µg/Kg	05/26/11	05/26/11
		Benzene	890		50 µg/Kg	05/26/11	05/26/11
		Toluene	180		50 µg/Kg	05/26/11	05/26/11
		Ethylbenzene	2,400		50 µg/Kg	05/26/11	05/26/11
		m,p-Xylene	3,400		50 µg/Kg	05/26/11	05/26/11
		o-Xylene	400		50 µg/Kg	05/26/11	05/26/11
Client ID :	**IW-2 21ft.**						
Lab ID :	STR11052543-15A	TPH-P (GRO)	ND		1,000 µg/Kg	05/26/11	05/26/11
Date Sampled	05/20/11 08:39	Methyl tert-butyl ether (MTBE)	ND		5.0 µg/Kg	05/26/11	05/26/11
		Benzene	ND		5.0 µg/Kg	05/26/11	05/26/11
		Toluene	ND		5.0 µg/Kg	05/26/11	05/26/11
		Ethylbenzene	ND		5.0 µg/Kg	05/26/11	05/26/11
		m,p-Xylene	ND		5.0 µg/Kg	05/26/11	05/26/11
		o-Xylene	ND		5.0 µg/Kg	05/26/11	05/26/11

Gasoline Range Organics (GRO) C4-C13

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

Sample results were calculated on a wet weight basis.
ND = Not Detected
Reported in micrograms per Kilogram, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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

6/2/11
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *01-Jun-11*

QC Summary Report

Work Order: 11052543

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **11052606.D** Batch ID: **MS08S6618B** Analysis Date: **05/26/2011 12:13**

Sample ID: **MBLK MS08S6618B** Units : **µg/Kg** Run ID: **MSD_08_110526A** Prep Date: **05/26/2011 12:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	1000								
Surr: 1,2-Dichloroethane-d4	197		200		99	70	130			
Surr: Toluene-d8	207		200		103	70	130			
Surr: 4-Bromofluorobenzene	212		200		106	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **11052610.D** Batch ID: **MS08S6618B** Analysis Date: **05/26/2011 13:47**

Sample ID: **GLCS MS08S6618B** Units : **µg/Kg** Run ID: **MSD_08_110526A** Prep Date: **05/26/2011 13:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	13800	2000	16000		86	63	148			
Surr: 1,2-Dichloroethane-d4	394		400		98	70	130			
Surr: Toluene-d8	396		400		99	70	130			
Surr: 4-Bromofluorobenzene	436		400		109	70	130			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C**

File ID: **11052611.D** Batch ID: **MS08S6618B** Analysis Date: **05/26/2011 14:10**

Sample ID: **11052543-07AGS** Units : **µg/Kg** Run ID: **MSD_08_110526A** Prep Date: **05/26/2011 14:10**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	17200	2000	16000	2343	93	35	166			
Surr: 1,2-Dichloroethane-d4	384		400		96	70	130			
Surr: Toluene-d8	394		400		98	70	130			
Surr: 4-Bromofluorobenzene	473		400		118	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **11052612.D** Batch ID: **MS08S6618B** Analysis Date: **05/26/2011 14:33**

Sample ID: **11052543-07AGSD** Units : **µg/Kg** Run ID: **MSD_08_110526A** Prep Date: **05/26/2011 14:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	17600	2000	16000	2343	95	35	166	17240	1.9(33)	
Surr: 1,2-Dichloroethane-d4	388		400		97	70	130			
Surr: Toluene-d8	401		400		100	70	130			
Surr: 4-Bromofluorobenzene	446		400		112	70	130			

Comments:

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

Reported in micrograms per Kilogram, per client request.

Alpha Analytical, Inc.

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Date: 01-Jun-11

QC Summary Report

Work Order: 11052543

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**
File ID: **11052606.D** Batch ID: **MS08S6618A** Analysis Date: **05/26/2011 12:13**
Sample ID: **MBLK MS08S6618A** Units : **µg/Kg** Run ID: **MSD_08_110526A** Prep Date: **05/26/2011 12:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	5								
Benzene	ND	5								
Toluene	ND	5								
Ethylbenzene	ND	5								
m,p-Xylene	ND	5								
o-Xylene	ND	5								
Surr: 1,2-Dichloroethane-d4	197		200		99	70	130			
Surr: Toluene-d8	207		200		103	70	130			
Surr: 4-Bromofluorobenzene	212		200		106	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8260B**
File ID: **11052607.D** Batch ID: **MS08S6618A** Analysis Date: **05/26/2011 12:37**
Sample ID: **LCS MS08S6618A** Units : **µg/Kg** Run ID: **MSD_08_110526A** Prep Date: **05/26/2011 12:37**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	409	10	400		102	61	147			
Benzene	400	10	400		100	70	138			
Toluene	377	10	400		94	70	137			
Ethylbenzene	363	10	400		91	70	138			
m,p-Xylene	362	10	400		91	70	145			
o-Xylene	351	10	400		88	70	145			
Surr: 1,2-Dichloroethane-d4	431		400		108	70	130			
Surr: Toluene-d8	372		400		93	70	130			
Surr: 4-Bromofluorobenzene	472		400		118	70	130			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8260B**
File ID: **11052608.D** Batch ID: **MS08S6618A** Analysis Date: **05/26/2011 13:00**
Sample ID: **11052543-07AMS** Units : **µg/Kg** Run ID: **MSD_08_110526A** Prep Date: **05/26/2011 13:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	499	10	400	98.46	100	42	157			
Benzene	442	10	400	0	110	53	150			
Toluene	418	10	400	0	104	51	149			
Ethylbenzene	407	10	400	0	102	54	150			
m,p-Xylene	408	10	400	0	102	50	161			
o-Xylene	396	10	400	0	99	35	177			
Surr: 1,2-Dichloroethane-d4	431		400		108	70	130			
Surr: Toluene-d8	371		400		93	70	130			
Surr: 4-Bromofluorobenzene	476		400		119	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8260B**
File ID: **11052609.D** Batch ID: **MS08S6618A** Analysis Date: **05/26/2011 13:23**
Sample ID: **11052543-07AMSD** Units : **µg/Kg** Run ID: **MSD_08_110526A** Prep Date: **05/26/2011 13:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	485	10	400	98.46	97	42	157	498.7	2.8(32)	
Benzene	451	10	400	0	113	53	150	441.9	2.1(26)	
Toluene	436	10	400	0	109	51	149	417.8	4.2(26)	
Ethylbenzene	420	10	400	0	105	54	150	406.8	3.1(29)	
m,p-Xylene	423	10	400	0	106	50	161	408.5	3.6(38)	
o-Xylene	405	10	400	0	101	35	177	395.9	2.4(40)	
Surr: 1,2-Dichloroethane-d4	426		400		106	70	130			
Surr: Toluene-d8	377		400		94	70	130			
Surr: 4-Bromofluorobenzene	479		400		120	70	130			

Comments:

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : STR11052543

Report Due By : 5:00 PM On : 02-Jun-11

Report Attention	Phone Number	EMail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

EDD Required : **Yes**

Sampled by : Levi Ford

PO :

Client's COC # : 55616. 55617 Job : 2115-1436-01/Former Olympic Station

Cooler Temp	Samples Received	Date Printed
0 °C	25-May-11	**25-May-11**

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_S	VOC_S	Sample Remarks
STR11052543-01A	EX-1 6ft.	SO	05/19/11 14:44	1	0	5	GAS-C	BTXE/M_C	
STR11052543-02A	EX-1 11ft.	SO	05/19/11 14:49	1	0	5	GAS-C	BTXE/M_C	
STR11052543-03A	EX-1 16ft.	SO	05/19/11 14:53	1	0	5	GAS-C	BTXE/M_C	
STR11052543-04A	EX-1 21ft.	SO	05/19/11 14:56	1	0	5	GAS-C	BTXE/M_C	
STR11052543-05A	EX-2 11ft.	SO	05/19/11 08:55	1	0	5	GAS-C	BTXE/M_C	
STR11052543-06A	EX-2 16ft.	SO	05/19/11 08:58	1	0	5	GAS-C	BTXE/M_C	
STR11052543-07A	EX-2 21ft.	SO	05/19/11 09:01	1	0	5	GAS-C	BTXE/M_C	
STR11052543-08A	EX-3 6ft.	SO	05/19/11 11:23	1	0	5	GAS-C	BTXE/M_C	
STR11052543-09A	EX-3 11ft.	SO	05/19/11 11:26	1	0	5	GAS-C	BTXE/M_C	
STR11052543-10A	EX-3 16ft.	SO	05/19/11 11:29	1	0	5	GAS-C	BTXE/M_C	

Comments: Security seals intact. Frozen ice. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Tara Jackson	Tara Jickinson	Alpha Analytical, Inc.	5/25/11 1249

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : STR11052543

Report Due By : 5:00 PM On : 02-Jun-11

Report Attention	Phone Number	EMail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

PO :

EDD Required : **Yes**

Sampled by : Levi Ford

Client's COC # : 55616. 55617 Job : 2115-1436-01/Former Olympic Station

Cooler Temp	Samples Received	Date Printed
0 °C	25-May-11	25-May-11

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_S	VOC_S							Sample Remarks
STR11052543-11A	IW-1 6ft.	SO	05/20/11 09:31	1	0	5	GAS-C	BTXE/M_C							
STR11052543-12A	IW-1 11ft.	SO	05/20/11 09:36	1	0	5	GAS-C	BTXE/M_C							
STR11052543-13A	IW-2 6ft.	SO	05/20/11 08:31	1	0	5	GAS-C	BTXE/M_C							
STR11052543-14A	IW-2 11ft.	SO	05/20/11 08:35	1	0	5	GAS-C	BTXE/M_C							
STR11052543-15A	IW-2 21ft.	SO	05/20/11 08:39	1	0	5	GAS-C	BTXE/M_C							

Comments: Security seals intact. Frozen ice. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Tara Dickinson	Tara Dickinson	Alpha Analytical, Inc.	5/25/11 1249

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

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

55616

Billing Information:

Company Name: Stratus Environmental
Attn:
Address: 3330 Cameron Park Dr. #550
City, State, Zip: Cameron Park 95682
Phone Number: 676 6004 Fax: 676 6005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ___ CA X NV ___ WA ___ DOD Site ___
ID ___ OR ___ OTHER ___

Consultant / Client Name: Former Olympic Station
Address: 1436 Grant Ave
City, State, Zip: San Lorenzo, CA.

Job #: 2115-1436-01
Job Name: Former Olympic Station

Report Attention / Project Manager
Name: Steve Carter
Email: SCarter@Stratusinc.net
Phone: ___ Mobile: ___

P.O. #: 2115-1436-01

Data Validation Level: III or IV

EDD / EDF? YES ___ NO ___
Global ID # ___

Time Sampled	Date Sampled	Matrix* See Key Below	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required: GRO	BTEX	MTBE					REMARKS
1444	5/19	SO	STL11052543-01	Ex-1 6'	STD	N/A	1B	X	X	X					
1449			-02	11'											
1453			-03	16'											
1456			-04	21'											
0855			-05	Ex-2 11'											
0858			-06	16'											
0901			-07	21'											
1123			-08	Ex-3 6'											
1126			-09	11'											
1129			-10	16'											
0931	5/20		-11	IW-1 6'											
0936			-12	11'											
0831			-13	IW-2 6'											

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: Levi Ford

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date: 5-24-11	Time: 10:10
Relinquished by: (Signature/Affiliation) 5-24-11 1530	Received by: (Signature/Affiliation) Dave Jackson / Alpha	Date: 5/25/11	Time: 1245
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

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

55617

Billing Information:
Company Name: Stratus Environmental
Attn:
Address: 3330 Cameron Park Dr. #550
City, State, Zip: Cameron Park, CA. 95682
Phone Number: 6766 6004 Fax: 6766 6005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State? AZ ___ CA X NV ___ WA ___ DOD Site ___
ID ___ OR ___ OTHER ___ Page # 2 of 2

Consultant / Client Name: Former Olympic Station
Address: 1436 Grant Ave.
City, State, Zip: San Lorenzo, CA.
Job #: 2115-1436-01
Job Name: Former Olympic Station
Report Attention / Project Manager
Name: Steve Carter
Email: scarter@stratusinc.net
Phone: ___ Mobile: ___
P.O. #: 2115-1436-01

Analyses Required: GRO, BTEX, MTBE
Data Validation Level: III or IV
EDD / EDF? YES ___ NO ___
Global ID #: ___

Time Sampled	Date Sampled	Matrix* See Key Below	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	GRO	BTEX	MTBE					REMARKS
0835	5/20	SO	STR1105254314	IW-2 11'	STD	N/A	1B	X	X	X					
0839	↓	↓	-5	↓ 21'	↓	↓	↓	X	X	X					

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: Levi Ford

Relinquished by: (Signature/Affiliation) Levi Ford	Received by: (Signature/Affiliation) Lisa de Silva	Date: 5-24-11	Time: 10:10
Relinquished by: (Signature/Affiliation) Lisa de Silva 5-24-11 1530	Received by: (Signature/Affiliation) Mae Jackson / Alpha	Date: 5/25/11	Time: 1245
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

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

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	**EDF - Pilot Study/ Treatability Report**
Submittal Title:	**Soil analytical 5/19/11**
Facility Global ID:	**T0600102256**
Facility Name:	**OLYMPIC STATION**
File Name:	**11052543_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**10/17/2011 2:34:38 PM**
Confirmation Number:	6304258227

VIEW QC REPORT

VIEW DETECTIONS REPORT

APPENDIX F

DPE PILOT TEST FIELD DATA SHEETS

Site Name & Address: Former Olympic Station, 1436 Grant Avenue, San Lorenzo

Test Well ID: EX-1

Date: 6-6-11

Test Operators: CHILL

Equipment Model and Serial Nos.: 250 TCAT LR C117Z

PID Model: MINI RAE

Date & Time 6/11	Hour Meter Reading hrs	Applied Vacuum "H2O	Sys Inf Air Flow Rate[1] fpm/cfm	Sys Inf Air Temp deg F	Dilution Air Flow Rate[2] fpm/cfm	Dilution Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	Flow Totalizer (DPE unit) gallons	System Influent PID ppmv	Effluent PID ppmv		Comments/Notes 242130 start Total
0420	7770	13*	5000	60	3530	59	1490	760	242130	140	2.6		
0500	7770.6	13	5000	100	3049	59	1515	920	242210	170	2.8		
0530	7771.1	23	3000	100	1650	60	1591	979	242300	191	2.6		Oly W INF 0535 Oly A SYSINF 0542 Oly A EFF 0539
0600	7771.6	23	3000	105	1642	61	1632	1015	242480	186	2.6		
0630	7772.1	23	3000	105	1766	58	1654	777	242570	201	2.1		
0700	7772.6	23	3000	105	1766	58	1664	1000	242740	198	2.0		
0730	7773.1	23	3000	110	1528	51	1547	868	242840	176	2.0		
0800	7773.6	23	3000	110	1610	57	1630	903	242930	179	2.0		Oly W Inf 0750 Oly A SysInf 0759
									800 GALS				

* Raise VAC Every 30 mins Lowered Stinger To 10 ' To Expose More Screen
Let System Run AT 23" HG AT 10'

[1] Diameter of the system influent air flow pipe is 2 inches

[2] Diameter of the dilution air flow pipe is 1.5 inches

Site Name & Address: Former Olympic Station
1436 Grant Avenue, San Lorenzo

Date: 6-6-11
Operators: CHILL

Test Well ID: EX-1

DTB DTW DTB DTW DTB DTW

Date & Time	20.10 EX-1	6.38	19.70 EX-2	6.34	20.05 EX-3	5.94	MW-1		MW-3		MW-2		MW-4			
	Stinger Depth	Wellhead Vacuum	Stinger Depth	Wellhead Vacuum	Stinger Depth	Wellhead Vacuum	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water	Induced Vacuum	to water	Induced Vacuum	to water		
6-6-11	feet bgs	"Hg	feet bgs	"Hg	feet bgs	"Hg	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs		
0530	—	0	—	0	—	0	0	6.60	0	6.26	0	6.22	0	6.13		
0430	7'	2" Hg	6.35	0	6.14	0	0	6.82	0	6.69	0	6.40	0	6.37		
0500	7'	2"	6.35	0	6.16	0	0	6.86	0	6.77	0	6.46	0	6.50		
0530	10'	2	6.37	0	6.25	0	0	6.92	0	7.00	0	6.51	0	6.75		
0600	10'	2	6.38	0	6.32	0	0	6.97	0	7.09	0	6.57	0	7.06		
0630	10'	2	6.38	0	6.34	0	0	7.00	0	7.10	0	6.59	0	7.25		
0700	10'	2	6.39	0	6.35	0	0	7.00	0	7.13	0	6.61	0	7.44		
0730	10'	2	6.41	0	6.37	0	0	7.02	0	7.15	0	6.62	0	7.50		
0800	10'	2	6.41	0	6.37	0	0	7.02	0	7.15	0	6.63	0	7.52		

STRATUS

Site Name & Address: Former Olympic Station, 1436 Grant Avenue, San Lorenzo

Test Well ID: EX-2

Date: 6-7-11

Test Operators: CHILL

Equipment Model and Serial Nos.:

PID Model:

Date & Time 6-7-11	Hour Meter Reading hrs	Applied Vacuum "Hg	Sys Inf Air Flow Rate[1] fpm/cfm	Sys Inf Air Temp deg F	Dilution Air Flow Rate[2] fpm/cfm	Dilution Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	Flow Totalizer (DPE unit) gallons	System Influent PID ppmv	Effluent PID ppmv		Comments/Notes
0815	7773.8	15	4500	110	3083	64	1604	716	242930	173	2.5		
0830	7774.0	20	4800	120	2469	64	1507	830	243020	44	2.4		
0900	7774.6	20	4800	125	2879	61	1485	750	243190	30	2.4		
0930	7775.1	20	4800	125	2739	62	1479	699	243290	23	2.3		OLW Inf 0940 OLY A Sys Inf 0935
1000	7775.6	20	4800	125	2969	62	1473	746	243470	20	2.3		
1030	7776.1	20	4700	125	3222	62	1469	676	243560	20	2.2		
1100	7776.6	20	4800	125	3213	65	1460	707	243730	17	2.0		
1130	7777.1	20	4500	125	2805	69	1467	930	243820	20	2.0		OLY W Inf 1140 OLY A Sys Inf 1135
1200	7777.6	20	4500	125	2986	67	1468	784	243990	29	2.0		
									1060				

[1] Diameter of the system influent air flow pipe is 2 inches

System will not Run At Low Vac for this well

[2] Diameter of the dilution air flow pipe is 1.5 inches

Site Name & Address: Former Olympic Station
1436 Grant Avenue, San Lorenzo

Date: 6-7-11
Operators: CHILL

Test Well ID: EX-2

Date & Time	EX-1		EX-2		EX-3		MW-1		MW-2		MW-3		MW-4			
	Stinger Depth	Wellhead Vacuum	Stinger Depth	Wellhead Vacuum	Stinger Depth	Wellhead Vacuum	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water	Induced Vacuum	to water	Induced Vacuum	to water		
6-7-11	feet bgs	"Hg	feet bgs	"H2O	feet bgs	"Hg	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs		
0830	6.82	0	8'	4.7"H2O	6.27	0	0	6.98	0	6.65	0	6.54	0	7.25		
0900	6.65	0	8'	5"H2O	6.21	0	0	6.94	0	6.54	0	6.50	0	6.94		
0930	6.64	0	9'	3"H2O	6.20	0	0	6.95	0	6.51	0	6.50	0	6.77		
1000	6.62	0	9'	3.8"	6.21	0	0	6.96	0	6.52	0	6.50	0	6.66		
1030	6.61	0	9'	3.8	6.19	0	0	6.95	0	6.51	0	6.50	0	6.58		
1100	6.61	0	9'	4.0	6.18	0	0	6.97	0	6.51	0	6.50	0	6.54		
1130	6.61	0	9'	4.0	6.20	0	0	6.97	0	6.50	0	6.51	0	6.51		
1200	6.61	0	9'	4.0	6.19	0	0	6.97	0	6.48	0	6.50	0	6.49		

Lower Stinger Dian 1' more well makes good water

Site Name & Address: Former Olympic Station, 1436 Grant Avenue, San Lorenzo

Test Well ID: EX-3

Date: 6-7-11

Test Operators: CHLC

Equipment Model and Serial Nos.:

PID Model:

Date & Time 6/7/11	Hour Meter Reading hrs	Applied Vacuum "Hg	Sys Inf Air Flow Rate[1] (ppm)/cfm	Sys Inf Air Temp deg F	Dilution Air Flow Rate[2] (ppm)/cfm	Dilution Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	Flow Totalizer (DPE unit) gallons	System Influent PID ppmv	Effluent PID ppmv		Comments/Notes
1215	7777.8	22"Hg	4000	125	3347	67	1460	672	243990	13	2.6		
1230	7778.1	22	4000	125	3026	72	1469	788	244080	40	2.4		
1300	7778.6	22	4000	125	2703	69	1471	813	244220	37	2.0		
1330	7779.1	22	4000	125	2600	78	1476	716	244340	42	2.0		Only W Inf 1340 Only A Sys Inf 1335
1400	7779.6	22	4000	125	2988	79	1490	843	244440	50	2.0		
1430	7780.1	22	4000	125	3610	71	1501	826	244530	57	2.1		
1500	7780.6	22	4000	125	3318	77	1456	906	244700	60	2.0		
1530	7781.1	22	4000	125	3544	74	1455	845	244870	65	2.0		Only W Inf 1540 Only A Sys Inf 1535
									880				

[1] Diameter of the system influent air flow pipe is 2 inches

[2] Diameter of the dilution air flow pipe is 1.5 inches

Site Name & Address: Former Olympic Station
1436 Grant Avenue, San Lorenzo

Date: 6-7-11

Operators: CHLC

Test Well ID: EX-3

Date & Time	EX-1 DTW		EX-2 DTW		EX-3		MW-1		MW-2		MW-3		MW-4			
	Stinger Depth	Wellhead Vacuum	Stinger Depth	Wellhead Vacuum	Stinger Depth	Wellhead Vacuum	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water	Induced Vacuum	to water	Induced Vacuum	to water		
6-7-11	feet bgs	"Hg	feet bgs	"Hg	feet bgs	"Hg PRV	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs		
1230	6.71	0	6.78	0	8	53.5	0	7.04	0	7.25	6.84	0	0	6.49		
1300	6.77	0	6.72	0	8'	53	0	7.09	0	7.10	6.90	0	0	6.53		
1330	6.79	0	6.77	0	8'	53	0	7.10	0	7.13	6.93	0	0	6.55		
1400	6.81	0	6.75	0	8'	53	0	7.11	0	7.14	6.95	0	0	6.55		
1430	6.82	0	6.75	0	8'	53	0	7.12	0	7.15	6.97	0	0	6.57		
1500	6.83	0	6.75	0	8'	54	0	7.12	0	7.15	6.97	0	0	6.58		
1530	6.84	0	6.75	0	8'	51	0	7.13	0	7.16	6.97	0	0	6.58		

Site Name & Address: Former Olympic Station, 1436 Grant Avenue, San Lorenzo

Test Well ID: EX 1, 2, 3

Date: 6/11

Test Operators: CHILL

Equipment Model and Serial Nos.: _____

PID Model: _____

Date & Time 6/11	Hour Meter Reading hrs	Applied Vacuum H2O	Sys Inf Air Flow Rate[1] fpm/cfm	Sys Inf Air Temp deg F	Dilution Air Flow Rate[2] fpm/cfm	Dilution Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	Flow Totalizer (DPE unit) gallons	System Influent PID ppmv	Effluent PID ppmv		Comments/Notes
													244870 Total Start
1700	7782.6	17	4000	125	2580	71	1472	812	245560	165	2.0		
1800	7783.6	17	4000	115	1961	67	1477	882	246120	191	2.0		Dly w EX# 1729 Dly A SysInf 1730
6-7-11 1000	7799.6	17	4000	120	2545	69	1550	728	249270	300	4.0		7083 GALS Total
1100	7800.1	17	4000	125	2206	66	1551	810	249350	281	3.0		Dly A Sys Inf 1022 Ex1
1200	7801.6	16	4000	120	2625	67	1548	822	249500	280	13.6		
1300	7802.6	16	4000	125	2658	68	1545	884	249660	291	6.0		
1400	7803.6	20	4000	125	1640	74	1546	966	249790	280	2.6		
1500	7804.6	17	4000	130	1471	73	1552	823	250450	257	2.4		
1600	7805.6	17	4000	130	1562	73	1548	872	250760	250	2.9		
1700	7806.6	16	4000	120	1510	70	1548	871	251170	300	2.5		
1800	7807.6	17	4000	110	1250	66	1548	845	251490	344	2.8		
1900	7808.6	17	4000	110	1270	63	1542	804	251880	370	2.9		
									252220				

[1] Diameter of the system influent air flow pipe is 2 inches

[2] Diameter of the dilution air flow pipe is 1.5 inches

(6/11) 1600 Switch To All wells - Take Air samples Feed EX
6-7-11 2200 Turn Pump Tank AT 2000 HRS But was Not Able To Take All So have To Reduce Flow To Tank only using EX#1 Raise stingers To 5'

Site Name & Address: Former Olympic Station
1436 Grant Avenue, San Lorenzo

Test Well ID: EX-1, 2, 3

Date: 6-7-11
Operators: CHILC

Date & Time	EX-1		EX-2		EX-3		MW-1		MW-2		MW-3		MW-4			
	Stinger Depth	Wellhead Vacuum	Stinger Depth	Wellhead Vacuum	Stinger Depth	Wellhead Vacuum	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water	Induced Vacuum	to water	Induced Vacuum	to water		
6-7-11	feet bgs	"Hg	feet bgs	H2O "WC	feet bgs	H2O "WC	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs		
1700	10	2	9'	7	8'	42	8	7.32	8	7.26	8	6.50	8	7.19		
6-8-11																
1000	5'	4	6.82	DTW	6.50	DTW	8	7.16	8	6.77	8	7.00	+.5	7.31		
1100	5'	4	6.80		6.50		8	7.13	8	6.75	8	7.05	-.4	7.30		
1200	5'	4	6.79		6.50		0	7.15	0	6.74	0	7.06	-.4	7.28		
1300	5'	4	6.80		6.49		0	7.14	-.1	6.81	0	7.05	-.3	7.30		
1400	7'	4	7'	11	7'	43	0	7.38	0	7.27	0	7.45	-.2	7.39		
1500	7'	4	6'	20	6'	13	0	7.38	0	7.23	0	7.44	-.2	7.47		
1600	6'	4	5'	7	5'	13	0	7.38	0	7.20	0	7.41	0	7.47		
1700	6'	4	5'	6	5'	13	0	7.39	0	7.22	0	7.43	0	7.47		
1800	6'	4	5'	6	5'	12	0	7.40	0	7.24	0	7.44	0	7.49		
1900	6'	4	5'	6	5'	13	0	7.43	0	7.27	0	7.45	0	7.51		

1600 Start on All wells - Run Air Samples To Fuel EX
1339 ADD ALL wells Back on line

STRATUS

Site Name & Address: Former Olympic Station
1436 Grant Avenue, San Lorenzo

Test Well ID: EX 1, 2, 3

Date: 6/9/11

Test Operators: CM
CHILL

Equipment Model and Serial Nos.:

PID Model: MINI RAE

Date & Time 6/9/11	Hour Meter Reading hrs	Applied Vacuum "WC	Sys Inf Air Flow Rate[1] fpm/cfm	Sys Inf Air Temp deg F	Dilution Air Flow Rate[2] fpm/cfm	Dilution Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	Flow Totalizer (DPE unit) gallons	System Influent PID ppmv	Effluent PID ppmv		Comments/Notes
700	7820.6	15	4500	110	1303	59	1485	682	255820	392	2.4		
800	7821.6	15	4500	115	1238	59	1480	806	256090	423	2.5		
900	7822.6	15	4500	115	1226	61	1476	788	256360	446	3.7		
1000	7823.6	15	4500	120	1279	63	1471	676	256670	412	2.7		
1100	7824.6	15	4500	125	1233	64	1469	827	256970	400	2.6		Olx W Inf 1030 Olx A Sys Inf 1020
1200	7825.6	15	4500	130	1230	65	1473	819	257260	380	2.5		
1900	7833.0	15	4500	110	1229	60	1465	670	259200	342	2.4		16944.9 GALS
6-10-11													
0330	7841.5	14	4700	110	1270	59	1567	893	261390	404	2.2		
0430	7842.1	14	4700	110	1279	59	1566	782	261560	403	2.2		Tank pumped 261740 Totalizer
0530	7843.1	14	4700	110	1280	58	1563	810	261820	385	2.0		
0630	7844.1	14	4700	110	1060	56	1559	813	262080	380	2.0		Olx W Inf 0642 Olx A Sys Inf 0633
0730	7845.1	14	4700	110	1075	57	1558	757	262260	410	2.0		

[1] Diameter of the system influent air flow pipe is 2 inches

[2] Diameter of the dilution air flow pipe is 1.5 inches

Site Name & Address: Former Olympic Station
1436 Grant Avenue, San Lorenzo

Test Well ID: EX 1, 2, 3

Date: 6/9/11

Operators: CM \ CHILL

Date & Time	EX-1		EX-2		EX-3		MW-1		MW-2		MW-3		MW-4			
	Stinger Depth	Wellhead Vacuum	Stinger Depth	Wellhead Vacuum	Stinger Depth	Wellhead Vacuum	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water	Induced Vacuum	to water	Induced Vacuum	to water		
6/9/11	feet bgs	"WC ~~"Hg~~	feet bgs	"WC ~~"Hg~~	feet bgs	"WC ~~"Hg~~	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs		
700	6'	53	5'	20	5'	49	0	7.47	0	7.28	+2.6	7.47	-.3	7.51		
800	6'	52	5'	21	5'	49	0	7.48	0	7.30	0	7.48	0	7.51		
900	6'	52	5'	21	5'	48	0	7.48	0	7.31	0	7.46	-.3	7.52		
1000	6'	50	5'	21	5'	49	0	7.48	0	7.30	0	7.46	-.4	7.52		
1100	6'	51	5'	21	5'	47	0	7.48	0	7.28	0	7.48	-.2	7.53		
1200	6'	50	5'	20	5'	46	0	7.48	0	7.28	0	7.45	-.2	7.53		
1900	6'	51	5'	18	5'	47	0	7.50	0	7.32	0	7.48	-.2	7.51		
6/10/11 0330	6'	51	5'	19	5'	49	0	7.53	0	7.32	0	7.50	-.1	7.55		
0430	6'	51	5'	19	5'	49	0	7.53	0	7.32	0	7.49	-.1	7.55		
0530	6'	51	5'	19	5'	49	0	7.52	0	7.33	0	7.51	-.1	7.55		
0630	6'	51	5'	19	5'	49	0	7.52	0	7.33	0	7.51	-.1	7.55		
0730	6'	51"	5'	19	5'	49	0	7.53	0	7.33	0	7.51	-.3	7.57		

Site Name & Address: Former Olympic Station, 1436 Grant Avenue, San Lorenzo

Test Well ID: Ex 1, 2, 3

Date: 6/11

Test Operators: CM, JC

Equipment Model and Serial Nos.:

PID Model: Rae

11:46

Date & Time 6/11/11	Hour Meter Reading hrs	Applied Vacuum "WC	Sys Inf Air Flow Rate[1] fpm/cfm	Sys Inf Air Temp deg F	Dilution Air Flow Rate[2] fpm/cfm	Dilution Air Temp deg F	Control Temp deg F	Effluent Air Temp deg F	Flow Totalizer (DPE unit) gallons	System Influent PID ppmv	Effluent PID ppmv		Comments/Notes
830	7854.0	—	—	—	—	—	—	—	264470	—	—		System off on arrival
1545	7854.0	16	4500	115	1075		1490	795	26470	—	—		Restart system 5/2
1700	7855.3	16	4500	115	1075	—	1502	778	~~264495~~	234	0.1		265095
2145	7860.1	16	4800	113	1075	—	1536	742	266425	215	0.3		
1208 8/12	7874.4	15.5	5100	129	1075		1500	826	270264.9	59.7	0.2		Shut down system

[1] Diameter of the system influent air flow pipe is 2 inches

[2] Diameter of the dilution air flow pipe is 1.5 inches

~~266425.5~~ 9:50
266515.1 10:08
89.6 ≈ 4.98 gpm

Site Name & Address: Former Olympic Station
1436 Grant Avenue, San Lorenzo

Test Well ID: EX-1, EX-2, EX-3, restarted 15:45

Date: 6/10/11

Operators: GC

Date & Time	EX-1		EX-2		EX-3		MW-1		MW-2		MW-3		MW-4			
	Stinger Depth	Wellhead Vacuum	Stinger Depth	Wellhead Vacuum	Stinger Depth	Wellhead Vacuum	Induced Vacuum	Depth to water	Induced Vacuum	Depth to water	Induced Vacuum	to water	Induced Vacuum	to water		
	feet bgs	"~~Hg~~ WC	feet bgs	"~~Hg~~ WC	feet bgs	"~~Hg~~ WC	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs		
1700	6'	53.1	5'	22.1	5	49.8	0	7.46	[illegible]	7.27	0.00	7.40	0.3	7.57		
2145	6	52.6	5	19.9	5	44.5	0	7.52	0	7.30	0.0	7.47	0.2	7.54		
1200	6	50.1	5	19.6	5	48.5	0	7.57	0	7.34	0.0	7.51	0.4			

1700 6/11/11
SV-1 0.00
SV-2 0.3
SV-3 1.7
SV-4 1.3
SV-5 0.7

6/11/11
2145
0.0
0.6
+0.3
+0.4
+DIL

12:00 6/12/11
0.1
-0.8
+0.7
-0.4
+0.2

Site Name & Address: Former Olympic station, 1430 Grant Ave San Lorenzo

Test Well ID: EX-1

Date: 6-6-11

Test Operators: CHILL

Date & Time	Induced Vacuum ("WC) & ~~Depth to Water (feet bgs)~~															Comments/Notes
	SV 1	SV 2	SV 3	SV 4	SV 5											
6-7-11																
0430	Ø	Ø	Ø	Ø	-.1											
0500	Ø	Ø	Ø	Ø	Ø											
0530	Ø	Ø	Ø	+.4	Ø											
0600	Ø	Ø	Ø	+.5	Ø											
0630	Ø	Ø	Ø	+.7	-.1											
0700	Ø	Ø	Ø	+.3	+.1											
0730	Ø	Ø	-.1	+.5	Ø											
				+.4												

STRATUS

Site Name & Address: Former Olympic station

Test Well ID: EX-2

Date: 6-7-11

Test Operators: CHILL

Date & Time	Induced Vacuum ("WC) & ~~Depth to Water (feet bgs)~~ SV 1	SV 2	SV 3	SV 4	SV 5									Comments/Notes
6/11														
0830	ø	ø	ø	ø	ø									
0900	ø	ø	ø	+.1	ø									
0930	ø	ø	ø	ø	ø									
1000	ø	ø	ø	+.7	ø									
1030	ø	ø	ø	+.6	ø									
1100	ø	ø	ø	+.3	ø									
1130	ø	ø	ø	+1.2	ø									
1200	ø	ø	ø	+.8	ø									

STRATUS

Site Name & Address: Olympic Stations

Test Well ID: EX-3

Date: 6-7-11

Test Operators: CHILC

Date & Time	Induced Vacuum ("WC) ~~& Depth to Water (feet bgs)~~														Comments/Notes
	SV 1	SV 2	SV 3	SV 4	SV 5										
6 7 11															
1230	ø	-.3	ø	+.8	ø										
1300	ø	-.2	NM	+1.0	+.1										
1330	ø	-.1	NM	+1.6	+.1										
1400	ø	-.2	NM	+1.7	+.3										
1430	ø	-.1	NM	+1.0	+.2										
1500	ø	ø	ø	+.8	ø										
1530	ø	ø	ø	+.3	ø										

STRATUS

Site Name & Address: Former Olympic Station 1436 Grant Ave

Test Well ID: EX 1, 2, 3

Date: 6-7-11

Test Operators: CMILC

Date & Time	Induced Vacuum ("WC) & ~~Depth to Water (feet bgs)~~ SV 1	SV 2	SV 3	SV 4	SV 5										Comments/Notes
6711															
1700	0	0	0	+.5	0										
6811															
1000	0	-.2	-1.0	+.3	-.2										
1100	0	-.2	-1.0	+.1	-.1										
1200	0	0	0	+.1	+.1										
1301	0	-.1	-0.7	+.1	0										
1400	0	-.5	+0.1	+.2	-.6										
1500	0	-.3	0	0	0										
1600	0	0	0	0	0										
1700	0	0	0	+.2	+.1										
1800	0	0	0	+.1	0										
1900	0	0	0	+.2	0										

STRATUS

Site Name & Address: Olympic

Test Well ID: EX 1, 2, 3

Date: 6/9/11

Test Operators: CM / CHILL

Date & Time	Induced Vacuum ("WC) ~~& Depth to Water (feet bgs)~~														Comments/Notes
	SV 1	SV 2	SV 3	SV 4	SV 5										
6911															
700	0	-.5	+.2	+.2	+.2										
800	0	-.5	+.4	+.6	0										
900	0	-.7	0	+.3	0										
1000	0	-.7	+.1	0	0										
1100	~~0~~	-.8	~~0~~	+.3	~~0~~										
1200	~~0~~	-.7	~~0~~	+.2	~~0~~										
6/11/11															
17:00	0	0.3	1.3	1.3	0.7										
21:45	0.1	0.6	+0.3	+0.4	+0.1										
6/12/11															
12:00	0.1	0.5	+0.7	0.1	+0.2										

STRATUS

APPENDIX G

DPE ANALYTICAL REPORTS, CHAIN-OF-CUSTODY DOCUMENTATION, AND GEOTRACKER ELECTRONIC SUBMITTAL CONFIRMATIONS

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Steve Carter
Phone: (530) 676-6008
Fax: (530) 676-6005
Date Received : 06/08/11

Job: Olympic Station

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

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**Oly A EFF**					
Lab ID :	STR11060840-01A	TPH-P (GRO)	ND	15 mg/m³	06/08/11 08:30	06/08/11
Date Sampled	06/07/11 05:39	Methyl tert-butyl ether (MTBE)	ND	0.15 mg/m³	06/08/11 08:30	06/08/11
		Benzene	ND	0.15 mg/m³	06/08/11 08:30	06/08/11
		Toluene	ND	0.15 mg/m³	06/08/11 08:30	06/08/11
		Ethylbenzene	ND	0.15 mg/m³	06/08/11 08:30	06/08/11
		m,p-Xylene	ND	0.15 mg/m³	06/08/11 08:30	06/08/11
		o-Xylene	ND	0.15 mg/m³	06/08/11 08:30	06/08/11

Gasoline Range Organics (GRO) C4-C13
Note: Concentrations of air in a Tedlar Bag are at 21 degrees Celsius and 25.17 inches of mercury.
ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

6/9/11
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *10-Jun-11*

QC Summary Report

Work Order: 11060840

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS06\DATA\110608\11060810.D** Batch ID: **MS06A0608B** Analysis Date: **06/08/2011 18:29**

Sample ID: **MBLK MS06A0607B** Units : **mg/m³** Run ID: **MSD_06_110608A** Prep Date: **06/08/2011 18:29**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	2.17		2		109	70	130			
Surr: Toluene-d8	2.1		2		105	70	130			
Surr: 4-Bromofluorobenzene	2.16		2		108	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS06\DATA\110608\11060804.D** Batch ID: **MS06A0608B** Analysis Date: **06/08/2011 15:51**

Sample ID: **GLCS MS06A0608B** Units : **mg/m³** Run ID: **MSD_06_110608A** Prep Date: **06/08/2011 15:51**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	407	10	400		102	70	130			
Surr: 1,2-Dichloroethane-d4	11.9		10		119	70	130			
Surr: Toluene-d8	9.99		10		99.9	70	130			
Surr: 4-Bromofluorobenzene	11		10		110	70	130			

Comments:

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

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *10-Jun-11*

QC Summary Report

Work Order: 11060840

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS06\DATA\110608\11060810.D** Batch ID: **MS06A0608A** Analysis Date: **06/08/2011 18:29**

Sample ID: **MBLK MS06A0608A** Units : **mg/m³** Run ID: **MSD_06_110608A** Prep Date: **06/08/2011 18:29**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	2.17		2		109	70	130			
Surr: Toluene-d8	2.1		2		105	70	130			
Surr: 4-Bromofluorobenzene	2.16		2		108	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS06\DATA\110608\11060803.D** Batch ID: **MS06A0608A** Analysis Date: **06/08/2011 15:25**

Sample ID: **LCS MS06A0608A** Units : **mg/m³** Run ID: **MSD_06_110608A** Prep Date: **06/08/2011 15:25**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	12.4	0.1	10		124	65	140			
Benzene	10.1	0.1	10		101	70	130			
Toluene	9.36	0.1	10		94	80	120			
Ethylbenzene	9.66	0.1	10		97	80	120			
m,p-Xylene	8.68	0.1	10		87	70	130			
o-Xylene	8.76	0.1	10		88	70	130			
Surr: 1,2-Dichloroethane-d4	12.1		10		121	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	10.7		10		107	70	130			

Comments:

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

Alpha Analytical, Inc.

Phone : (775) 355-1044 FAX : (775) 355-0406

Sample Receipt Checklist

Date Report is due to Client : **6/9/2011**

Date of Notice : **6/8/2011 7:45:34 AM**

Please take note of any NO check marks. If we receive no response concerning these items within 24 hours of the date of this notice, all of the samples will be analyzed as requested.

Client Name: **Stratus Environmental**

Project ID : **Olympic Station**

Project Manager: **Steve Carter**

Client's EMail: **scarter@stratusinc.net**

Client's Phone: **(530) 676-6008**

Client's FAX: **(530) 676-6005**

Work Order Number: **STR11060840**

Date Received: **6/8/2011**

Received by: Tara Dickinson

Chain of Custody (COC) Information

Carrier name FedEx

Chain of custody present ?	Yes ☑	No ☐	
Custody seals intact on shippping container/cooler ?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles ?	Yes ☐	No ☐	Not Present ☑
Chain of custody signed when relinquished and received ?	Yes ☑	No ☐	
Chain of custody agrees with sample labels ?	Yes ☑	No ☐	
Sample ID noted by Client on COC ?	Yes ☑	No ☐	
Date and time of collection noted by Client on COC ?	Yes ☑	No ☐	
Samplers's name noted on COC ?	Yes ☑	No ☐	
Internal Chain of Custody (COC) requested ?	Yes ☐	No ☑	
Sub Contract Lab Used :	None ☑	See Comments ☐	

Sample Receipt Information

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐		
Container/Temp Blank temperature in compliance (0-6°C)?	Yes ☑	No ☐		Cooler Temperature **n/a °C**
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	N/A ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐		
TOC Water - pH acceptable upon receipt (H2SO4 pH<2)?	Yes ☐	No ☐	N/A ☑	
Are NV non-SDWA 314 samples field filtered (0.2µ)?	Yes ☐	No ☐	N/A ☑	

Analytical Requirement Information

Are non-Standard or Modified methods requested ?	Yes ☐	No ☑	
Are there client specific Project requirements ?	Yes ☐	No ☑	If YES : see the Chain of Custody (COC)
Is this a Drinking Water regulatory sample ?	Yes ☐	No ☑	

Comments : 24hr TAT. Chain split into two separate workorders due to different TATs.

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	**EDF - Pilot Study/ Treatability Report**
Submittal Title:	**EFF 6/7/11**
Facility Global ID:	**T0600102256**
Facility Name:	**OLYMPIC STATION**
File Name:	**11060840_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**10/17/2011 3:30:37 PM**
Confirmation Number:	4349613964

VIEW QC REPORT

VIEW DETECTIONS REPORT

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Steve Carter
Phone: (530) 676-6008
Fax: (530) 676-6005
Date Received : 06/08/11

Job: Olympic Station

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

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**Oly A Sys INF**					
Lab ID :	STR11060841-01A	TPH-P (GRO)	1,700	200 mg/m³	06/08/11 12:40	06/10/11
Date Sampled	06/07/11 05:42	Methyl tert-butyl ether (MTBE)	ND	2.0 mg/m³	06/08/11 12:40	06/10/11
		Benzene	5.7	2.0 mg/m³	06/08/11 12:40	06/10/11
		Toluene	ND	2.0 mg/m³	06/08/11 12:40	06/10/11
		Ethylbenzene	ND	2.0 mg/m³	06/08/11 12:40	06/10/11
		m,p-Xylene	ND	2.0 mg/m³	06/08/11 12:40	06/10/11
		o-Xylene	ND	2.0 mg/m³	06/08/11 12:40	06/10/11
Client ID :	**Oly A Sys INF**					
Lab ID :	STR11060841-02A	TPH-P (GRO)	1,600	200 mg/m³	06/08/11 12:40	06/10/11
Date Sampled	06/07/11 07:55	Methyl tert-butyl ether (MTBE)	ND	2.0 mg/m³	06/08/11 12:40	06/10/11
		Benzene	6.0	2.0 mg/m³	06/08/11 12:40	06/10/11
		Toluene	ND	2.0 mg/m³	06/08/11 12:40	06/10/11
		Ethylbenzene	ND	2.0 mg/m³	06/08/11 12:40	06/10/11
		m,p-Xylene	ND	2.0 mg/m³	06/08/11 12:40	06/10/11
		o-Xylene	ND	2.0 mg/m³	06/08/11 12:40	06/10/11
Client ID :	**Oly A Sys INF**					
Lab ID :	STR11060841-03A	TPH-P (GRO)	100	15 mg/m³	06/08/11 12:40	06/10/11
Date Sampled	06/07/11 09:35	Methyl tert-butyl ether (MTBE)	3.4	0.15 mg/m³	06/08/11 12:40	06/10/11
		Benzene	ND	0.15 mg/m³	06/08/11 12:40	06/10/11
		Toluene	ND	0.15 mg/m³	06/08/11 12:40	06/10/11
		Ethylbenzene	ND	0.15 mg/m³	06/08/11 12:40	06/10/11
		m,p-Xylene	ND	0.15 mg/m³	06/08/11 12:40	06/10/11
		o-Xylene	ND	0.15 mg/m³	06/08/11 12:40	06/10/11
Client ID :	**Oly A Sys INF**					
Lab ID :	STR11060841-04A	TPH-P (GRO)	95	15 mg/m³	06/08/11 12:40	06/10/11
Date Sampled	06/07/11 11:35	Methyl tert-butyl ether (MTBE)	4.7	0.15 mg/m³	06/08/11 12:40	06/10/11
		Benzene	ND	0.15 mg/m³	06/08/11 12:40	06/10/11
		Toluene	ND	0.15 mg/m³	06/08/11 12:40	06/10/11
		Ethylbenzene	ND	0.15 mg/m³	06/08/11 12:40	06/10/11
		m,p-Xylene	ND	0.15 mg/m³	06/08/11 12:40	06/10/11
		o-Xylene	ND	0.15 mg/m³	06/08/11 12:40	06/10/11
Client ID :	**Oly A Sys INF**					
Lab ID :	STR11060841-05A	TPH-P (GRO)	180	30 mg/m³	06/08/11 12:40	06/10/11
Date Sampled	06/07/11 13:35	Methyl tert-butyl ether (MTBE)	0.34	0.30 mg/m³	06/08/11 12:40	06/10/11
		Benzene	0.44	0.30 mg/m³	06/08/11 12:40	06/10/11
		Toluene	ND	0.30 mg/m³	06/08/11 12:40	06/10/11
		Ethylbenzene	ND	0.30 mg/m³	06/08/11 12:40	06/10/11
		m,p-Xylene	ND	0.30 mg/m³	06/08/11 12:40	06/10/11
		o-Xylene	ND	0.30 mg/m³	06/08/11 12:40	06/10/11

Alpha Analytical, Inc.

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Client ID :	**Oly A Sys INF**					
Lab ID :	STR11060841-06A	TPH-P (GRO)	260	30 mg/m³	06/08/11 12:40	06/10/11
Date Sampled	06/07/11 15:35	Methyl tert-butyl ether (MTBE)	0.38	0.30 mg/m³	06/08/11 12:40	06/10/11
		Benzene	0.58	0.30 mg/m³	06/08/11 12:40	06/10/11
		Toluene	ND	0.30 mg/m³	06/08/11 12:40	06/10/11
		Ethylbenzene	ND	0.30 mg/m³	06/08/11 12:40	06/10/11
		m,p-Xylene	ND	0.30 mg/m³	06/08/11 12:40	06/10/11
		o-Xylene	ND	0.30 mg/m³	06/08/11 12:40	06/10/11

Gasoline Range Organics (GRO) C4-C13

Note: Concentrations of air in Tedlar Bags are at 21 degrees Celsius and 25.17 inches of mercury.

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

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

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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

6/15/11

Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *13-Jun-2011*

QC Summary Report

Work Order: 11060841

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **11060939.D** Batch ID: **MS15A0609B** Analysis Date: **06/09/2011 22:10**

Sample ID: **MBLK MS15A0609B** Units : **mg/m³** Run ID: **MSD_15_110609A** Prep Date: **06/09/2011 22:10**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	1.94		2		97	70	130			
Surr: Toluene-d8	2.03		2		102	70	130			
Surr: 4-Bromofluorobenzene	1.82		2		91	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **11060935.D** Batch ID: **MS15A0609B** Analysis Date: **06/09/2011 20:43**

Sample ID: **GLCS MS15A0609B** Units : **mg/m³** Run ID: **MSD_15_110609A** Prep Date: **06/09/2011 20:43**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	377	10	400		94	70	130			
Surr: 1,2-Dichloroethane-d4	10.5		10		105	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	9.58		10		96	70	130			

Comments:

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

Alpha Analytical, Inc.

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Date: *13-Jun-2011*

QC Summary Report

Work Order: 11060841

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **11060939.D** Batch ID: **MS15A0609A** Analysis Date: **06/09/2011 22:10**

Sample ID: **MBLK MS15A0609A** Units : **mg/m³** Run ID: **MSD_15_110609A** Prep Date: **06/09/2011 22:10**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.94		2		97	70	130			
Surr: Toluene-d8	2.03		2		102	70	130			
Surr: 4-Bromofluorobenzene	1.82		2		91	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **11060933.D** Batch ID: **MS15A0609A** Analysis Date: **06/09/2011 20:00**

Sample ID: **LCS MS15A0609A** Units : **mg/m³** Run ID: **MSD_15_110609A** Prep Date: **06/09/2011 20:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.66	0.1	10		97	65	140			
Benzene	9.25	0.1	10		93	70	130			
Toluene	9.68	0.1	10		97	80	120			
Ethylbenzene	9.56	0.1	10		96	80	120			
m,p-Xylene	9.84	0.1	10		98	70	130			
o-Xylene	9.58	0.1	10		96	70	130			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	9.42		10		94	70	130			

Comments:

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : STR11060841

Report Due By : 5:00 PM On : 16-Jun-11

Report Attention	Phone Number	EMail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

EDD Required : **Yes**

Sampled by : C. Hill

PO :

Client's COC # : 33098 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
n/a °C	08-Jun-11	08-Jun-11

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_A	VOC_A	Sample Remarks
STR11060841-01A	Oly A Sys INF	AR	06/07/11 05:42	1	0	6	GAS-N/C	BTEX/MTBE	Tedlar
STR11060841-02A	Oly A Sys INF	AR	06/07/11 07:55	1	0	6	GAS-N/C	BTEX/MTBE	Tedlar
STR11060841-03A	Oly A Sys INF	AR	06/07/11 09:35	1	0	6	GAS-N/C	BTEX/MTBE	Tedlar
STR11060841-04A	Oly A Sys INF	AR	06/07/11 11:35	1	0	6	GAS-N/C	BTEX/MTBE	Tedlar
STR11060841-05A	Oly A Sys INF	AR	06/07/11 13:35	1	0	6	GAS-N/C	BTEX/MTBE	Tedlar
STR11060841-06A	Oly A Sys INF	AR	06/07/11 15:35	1	0	6	GAS-N/C	BTEX/MTBE	Tedlar

Comments: No security seals. Ice n/a. Chain split into two separate workorders due to different TATs. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Tara Dickinson	Tara Dickinson	Alpha Analytical, Inc.	6/8/11 820

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

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

55098

Billing Information:
Company Name: Stratus
Attn: Steve
Address: 3330 Cameron Park Dr
City, State, Zip: Cameron Park
Phone Number: 5306766004 Fax: 530626 6006

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ____ CA X NV ____ WA ____ DOD Site ____
ID ____ OR ____ OTHER ____ Page # 1 of 1

Consultant / Client Name: Olympic Station
Address:
City, State, Zip: San Lorenzo
Job #:
Job Name:
Report Attention / Project Manager
Name: Steve
Email:
Phone: Mobile:

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. # / Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required: GRO-BTEX	Analyses Required: MTBE	Data Validation Level: III or IV	REMARKS
0942	6/7	AR	STR110608041-01	Oly A Sys Inf	STD		1-T	X	X	EDD / EDF? YES ____ NO ____	
0539	6/7	AR	-02	Oly A Eff	24		1-T	X	X	Global ID # ____	
0755	6/7	AR		Oly A Sys Inf	STD		1-T	X	X		
0933	6/7	AR	-03	Oly A Sys Inf	STD		1-T	X	X		
1133	6/7	AR	-04	Oly A Sys Inf	STD		1-T	X	X		
1335	6/7	AR	-05	Oly A Sys Inf	STD		1-T	X	X		
1535	6/7	AR	-06	Oly A Sys Inf	STD		1-T	X	X		

ADDITIONAL INSTRUCTIONS: Fed Ex Samples

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c) (2)). Sampled By: CHLC

Relinquished by: (Signature/Affiliation) Stratus	Received by: (Signature/Affiliation) Alpha	Date: 6/8/11	Time: 758
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

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

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	**EDF - Pilot Study/ Treatability Report**
Submittal Title:	**SYS INF 6-7-11**
Facility Global ID:	**T0600102256**
Facility Name:	**OLYMPIC STATION**
File Name:	**11060841_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**10/18/2011 7:15:54 AM**
Confirmation Number:	**1671508729**

VIEW QC REPORT

VIEW DETECTIONS REPORT

Alpha Analytical, Inc.

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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Steve Carter
Phone: (530) 676-6008
Fax: (530) 676-6005
Date Received : 06/09/11

Job: Olympic Station

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

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**Oly A Sys INF**					
Lab ID :	STR11060942-01A	TPH-P (GRO)	2,000	250 mg/m³	06/09/11 11:45	06/10/11
Date Sampled	06/07/11 17:30	Methyl tert-butyl ether (MTBE)	4.2	2.5 mg/m³	06/09/11 11:45	06/10/11
		Benzene	4.6	2.5 mg/m³	06/09/11 11:45	06/10/11
		Toluene	ND	2.5 mg/m³	06/09/11 11:45	06/10/11
		Ethylbenzene	ND	2.5 mg/m³	06/09/11 11:45	06/10/11
		m,p-Xylene	ND	2.5 mg/m³	06/09/11 11:45	06/10/11
		o-Xylene	ND	2.5 mg/m³	06/09/11 11:45	06/10/11
Client ID :	**Oly A Sys INF**					
Lab ID :	STR11060942-02A	TPH-P (GRO)	1,400	250 mg/m³	06/09/11 11:45	06/10/11
Date Sampled	06/08/11 10:22	Methyl tert-butyl ether (MTBE)	ND	2.5 mg/m³	06/09/11 11:45	06/10/11
		Benzene	4.8	2.5 mg/m³	06/09/11 11:45	06/10/11
		Toluene	ND	2.5 mg/m³	06/09/11 11:45	06/10/11
		Ethylbenzene	ND	2.5 mg/m³	06/09/11 11:45	06/10/11
		m,p-Xylene	ND	2.5 mg/m³	06/09/11 11:45	06/10/11
		o-Xylene	ND	2.5 mg/m³	06/09/11 11:45	06/10/11

Gasoline Range Organics (GRO) C4-C13
Note: Concentrations of air in Tedlar Bags are at 21 degrees Celsius and 25.41 inches of mercury.
ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

6/15/11
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *15-Jun-11*

QC Summary Report

Work Order: 11060942

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **11061010.D** Batch ID: **MS15A0610B** Analysis Date: **06/10/2011 11:34**

Sample ID: **MBLK MS15A0610B** Units : **mg/m³** Run ID: **MSD_15_110610D** Prep Date: **06/10/2011 11:34**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	1.93		2		97	70	130			
Surr: Toluene-d8	2.03		2		102	70	130			
Surr: 4-Bromofluorobenzene	1.85		2		93	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **11061004.D** Batch ID: **MS15A0610B** Analysis Date: **06/10/2011 09:24**

Sample ID: **GLCS MS15A0610B** Units : **mg/m³** Run ID: **MSD_15_110610D** Prep Date: **06/10/2011 09:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	392	10	400		98	70	130			
Surr: 1,2-Dichloroethane-d4	9.92		10		99	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	9.53		10		95	70	130			

Comments:

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

Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 15-Jun-11

QC Summary Report

Work Order: 11060942

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **11061010.D** Batch ID: **MS15A0610A** Analysis Date: **06/10/2011 11:34**

Sample ID: **MBLK MS15A0610A** Units : **mg/m³** Run ID: **MSD_15_110610D** Prep Date: **06/10/2011 11:34**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.93		2		97	70	130			
Surr: Toluene-d8	2.03		2		102	70	130			
Surr: 4-Bromofluorobenzene	1.85		2		93	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **11061003.D** Batch ID: **MS15A0610A** Analysis Date: **06/10/2011 09:02**

Sample ID: **LCS MS15A0610A** Units : **mg/m³** Run ID: **MSD_15_110610D** Prep Date: **06/10/2011 09:02**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	7.94	0.1	10		79	65	140			
Benzene	9.39	0.1	10		94	70	130			
Toluene	9.92	0.1	10		99	80	120			
Ethylbenzene	9.94	0.1	10		99	80	120			
m,p-Xylene	10.2	0.1	10		102	70	130			
o-Xylene	9.87	0.1	10		99	70	130			
Surr: 1,2-Dichloroethane-d4	9.35		10		94	70	130			
Surr: Toluene-d8	10.4		10		104	70	130			
Surr: 4-Bromofluorobenzene	9.98		10		99.8	70	130			

Comments:

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : STR11060942

Report Due By : 5:00 PM On : 17-Jun-11

Report Attention	Phone Number	EMail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

PO :

EDD Required : **Yes**

Sampled by : C. Hill

Client's COC # : 33100 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
n/a °C	09-Jun-11	**09-Jun-11**

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_A	VOC_A						Sample Remarks
STR11060942-01A	Oly A Sys INF	AR	06/07/11 17:30	1	0	6	GAS-N/C	BTEX/MTBE						Tedlar
STR11060942-02A	Oly A Sys INF	AR	06/08/11 10:22	1	0	6	GAS-N/C	BTEX/MTBE						Tedlar

Comments: No security seals. Ice n/a. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Tara Jackson	Tara Jackson	Alpha Analytical, Inc.	6/9/11 1102

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

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

55100

Billing Information:
Company Name: Sparks
Attn: Steve
Address: 5330 Cameron Pk Dr
City, State, Zip: Cameron Pk
Phone Number: 530 676 6004 Fax: 530 676 6005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ____ CA X NV ____ WA ____ DOD Site ____
ID ____ OR ____ OTHER ____ Page # 1 of 1

Consultant / Client Name: Olympic Station
Address:
City, State, Zip: SAN Lorenzo

Job #:
Job Name:

Report Attention / Project Manager
Name: Steve
Email:
Phone: ____ Mobile: ____

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. # / Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required: GRO BTEX	Analyses Required: MTBE	Analyses Required	Analyses Required	Analyses Required	Analyses Required	Analyses Required	REMARKS
1730	6/7	AR	STR1106090142-01	Oly A Sys Inf	STD		1-T	X	X						
1022	6/8	AR	-02	Oly A Sys Inf	STD		1-T	X	X						

FOR LAB USE ONLY

Data Validation Level: III or IV

EDD / EDF? YES ____ NO ____
Global ID # ____

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445A.636 (c) (2)). Sampled By: CHILC

Relinquished by: (Signature/Affiliation) Chad Stokes	Received by: (Signature/Affiliation) Dave Jackinson / Alpha	Date: 6/9/11	Time: 11:00
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

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

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	**EDF - Pilot Study/ Treatability Report**
Submittal Title:	**SYS INF 6-7-11**
Facility Global ID:	**T0600102256**
Facility Name:	**OLYMPIC STATION**
File Name:	**11060942_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**10/18/2011 7:22:01 AM**
Confirmation Number:	**7961698174**

VIEW QC REPORT

VIEW DETECTIONS REPORT

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Steve Carter
Phone: (530) 676-6008
Fax: (530) 676-6005
Date Received : 06/10/11

Job: Olympic Station

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

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**Oly A Sys INF**					
Lab ID :	STR11061042-01A	TPH-P (GRO)	1,500	100 mg/m³	06/09/11 11:55	06/13/11
Date Sampled	06/09/11 10:20	Methyl tert-butyl ether (MTBE)	1.8	1.0 mg/m³	06/09/11 11:55	06/13/11
		Benzene	4.2	1.0 mg/m³	06/09/11 11:55	06/13/11
		Toluene	ND	1.0 mg/m³	06/09/11 11:55	06/13/11
		Ethylbenzene	ND	1.0 mg/m³	06/09/11 11:55	06/13/11
		m,p-Xylene	ND	1.0 mg/m³	06/09/11 11:55	06/13/11
		o-Xylene	ND	1.0 mg/m³	06/09/11 11:55	06/13/11

Gasoline Range Organics (GRO) C4-C13
Note: Concentrations of air in a Tedlar Bag are at 21 degrees Celsius and 25.37 inches of mercury.
ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

6/17/11
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *17-Jun-11*

QC Summary Report

Work Order: 11061042

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **11061307.D** Batch ID: **MS08A0613B** Analysis Date: **06/13/2011 11:25**

Sample ID: **MBLK MS08A0613B** Units : **mg/m³** Run ID: **MSD_08_110613A** Prep Date: **06/13/2011 11:25**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	1.82		2		91	70	130			
Surr: Toluene-d8	2.45		2		123	70	130			
Surr: 4-Bromofluorobenzene	1.79		2		90	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **11061304.D** Batch ID: **MS08A0613B** Analysis Date: **06/13/2011 09:47**

Sample ID: **GLCS MS08A0613B** Units : **mg/m³** Run ID: **MSD_08_110613A** Prep Date: **06/13/2011 09:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	358	10	400		89	70	130			
Surr: 1,2-Dichloroethane-d4	9.28		10		93	70	130			
Surr: Toluene-d8	11.1		10		111	70	130			
Surr: 4-Bromofluorobenzene	9.97		10		99.7	70	130			

Comments:

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

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *17-Jun-11*

QC Summary Report

Work Order: 11061042

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**

File ID: **11061307.D** Batch ID: **MS08A0613A** Analysis Date: **06/13/2011 11:25**

Sample ID: **MBLK MS08A0613A** Units : **mg/m³** Run ID: **MSD_08_110613A** Prep Date: **06/13/2011 11:25**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.82		2		91	70	130			
Surr: Toluene-d8	2.45		2		123	70	130			
Surr: 4-Bromofluorobenzene	1.79		2		90	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8260B**

File ID: **11061303.D** Batch ID: **MS08A0613A** Analysis Date: **06/13/2011 09:24**

Sample ID: **LCS MS08A0613A** Units : **mg/m³** Run ID: **MSD_08_110613A** Prep Date: **06/13/2011 09:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.8	0.1	10		88	65	140			
Benzene	8.61	0.1	10		86	70	130			
Toluene	9.83	0.1	10		98	80	120			
Ethylbenzene	10.8	0.1	10		108	80	120			
m,p-Xylene	9.9	0.1	10		99	70	130			
o-Xylene	9.83	0.1	10		98	70	130			
Surr: 1,2-Dichloroethane-d4	10.4		10		104	70	130			
Surr: Toluene-d8	10.4		10		104	70	130			
Surr: 4-Bromofluorobenzene	10.4		10		104	70	130			

Comments:

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : STR11061042

Report Due By : 5:00 PM On : 17-Jun-11

Report Attention	Phone Number	EMail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

EDD Required : **Yes**

Sampled by : C. Hill

PO :

Client's COC # : 55638 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
n/a °C	10-Jun-11	10-Jun-11

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_A	VOC_A						Sample Remarks
STR11061042-01A	Oly A Sys INF	AR	06/09/11 10:20	1	0	5	GAS-N/C	BTEX/MTBE						Tedlar

Comments: No security seals. Ice n/a. Logged in on STD TAT, per usual INF sample TAT. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Tara Jackson	Tara Jackson	Alpha Analytical, Inc.	6/10/11 1057

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

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

55638

Billing Information:
Company Name Stratus
Attn: Steve
Address 3330 Cameron Park DR
City, State, Zip Cameron Park
Phone Number 530676 6004 Fax 530676 6005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ___ CA X NV ___ WA ___ DOD Site ___
ID ___ OR ___ OTHER ___ Page # 1 of 1

Consultant / Client Name: Olympic Station
Address:
City, State, Zip: San Lorenzo
Job #:
Job Name:
Report Attention / Project Manager
Name: Steve
Email:
Phone: Mobile:

Analyses Required: GRO-BTEX; MTBE

Data Validation Level: III or IV

EDD / EDF? YES ___ NO ___
Global ID #:

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. # / Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	GRO-BTEX	MTBE	REMARKS
1020	6/9	AR	STR1106161042-01	Oly A SVS INF			1-Y	X	X	

ADDITIONAL INSTRUCTIONS: Fed EX

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: S GALL

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:
S GALL Stratus	Dave Johnson Caepho	6/10/11	1056
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

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

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	EDF - Pilot Study/ Treatability Report
Submittal Title:	SYS INF 6-9-11
Facility Global ID:	T0600102256
Facility Name:	OLYMPIC STATION
File Name:	11061042_EDF.zip
Organization Name:	Stratus Environmental, Inc.
Username:	STRATUS NOCAL
IP Address:	12.186.106.98
Submittal Date/Time:	10/18/2011 7:23:03 AM
Confirmation Number:	6151361048

VIEW QC REPORT

VIEW DETECTIONS REPORT

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Steve Carter
Phone: (530) 676-6008
Fax: (530) 676-6005
Date Received : 06/11/11

Job: Olympic Station

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

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**Oly A Sys INF**					
Lab ID :	STR11061301-01A	TPH-P (GRO)	940	100 mg/m³	06/13/11 05:56	06/13/11
Date Sampled	06/10/11 06:33	Methyl tert-butyl ether (MTBE)	1.3	1.0 mg/m³	06/13/11 05:56	06/13/11
		Benzene	3.0	1.0 mg/m³	06/13/11 05:56	06/13/11
		Toluene	ND	1.0 mg/m³	06/13/11 05:56	06/13/11
		Ethylbenzene	1.0	1.0 mg/m³	06/13/11 05:56	06/13/11
		m,p-Xylene	ND	1.0 mg/m³	06/13/11 05:56	06/13/11
		o-Xylene	ND	1.0 mg/m³	06/13/11 05:56	06/13/11

Gasoline Range Organics (GRO) C4-C13
Note: Concentrations of air in a Tedlar Bag are at 21 degrees Celsius and 25.41 inches of mercury.
ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

6/20/11
Report Date

Alpha Analytical, Inc.

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

Date: *15-Jun-2011*

QC Summary Report

Work Order: 11061301

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **11061307.D** Batch ID: **MS08A0613B** Analysis Date: **06/13/2011 11:25**

Sample ID: **MBLK MS08A0613B** Units : **mg/m³** Run ID: **MSD_08_110613A** Prep Date: **06/13/2011 11:25**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	1.82		2		91	70	130			
Surr: Toluene-d8	2.45		2		123	70	130			
Surr: 4-Bromofluorobenzene	1.79		2		90	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **11061304.D** Batch ID: **MS08A0613B** Analysis Date: **06/13/2011 09:47**

Sample ID: **GLCS MS08A0613B** Units : **mg/m³** Run ID: **MSD_08_110613A** Prep Date: **06/13/2011 09:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	358	10	400		89	70	130			
Surr: 1,2-Dichloroethane-d4	9.28		10		93	70	130			
Surr: Toluene-d8	11.1		10		111	70	130			
Surr: 4-Bromofluorobenzene	9.97		10		99.7	70	130			

Comments:

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

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *15-Jun-2011*

QC Summary Report

Work Order: 11061301

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **11061307.D** Batch ID: **MS08A0613A** Analysis Date: **06/13/2011 11:25**

Sample ID: **MBLK MS08A0613A** Units : **mg/m³** Run ID: **MSD_08_110613A** Prep Date: **06/13/2011 11:25**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.82		2		91	70	130			
Surr: Toluene-d8	2.45		2		123	70	130			
Surr: 4-Bromofluorobenzene	1.79		2		90	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **11061303.D** Batch ID: **MS08A0613A** Analysis Date: **06/13/2011 09:24**

Sample ID: **LCS MS08A0613A** Units : **mg/m³** Run ID: **MSD_08_110613A** Prep Date: **06/13/2011 09:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.8	0.1	10		88	65	140			
Benzene	8.61	0.1	10		86	70	130			
Toluene	9.83	0.1	10		98	80	120			
Ethylbenzene	10.8	0.1	10		108	80	120			
m,p-Xylene	9.9	0.1	10		99	70	130			
o-Xylene	9.83	0.1	10		98	70	130			
Surr: 1,2-Dichloroethane-d4	10.4		10		104	70	130			
Surr: Toluene-d8	10.4		10		104	70	130			
Surr: 4-Bromofluorobenzene	10.4		10		104	70	130			

Comments:

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : STR11061301

Report Due By : 5:00 PM On : 20-Jun-2011

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention	Phone Number	EMail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

PO :

Client's COC # : 33102 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
N/A °C	11-Jun-2011	13-Jun-2011

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_A	VOC_A							Sample Remarks
STR11061301-01A	Oly A Sys INF	AR	06/10/11 06:33	1	0	5	GAS-N/C	BTEX/MTBE							TEDLAR

Comments: Security seals intact. Ice n/a. Saturday delivery. Sample received 6/11/11 kept secure until login on 6/13/11. Sample was extracted prior to login in order to meet hold time. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Adcox	Elizabeth Adcox	**Alpha Analytical, Inc.**	6.13.11 8:12

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

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

55102

Billing Information:
Company Name Stantec
Attn: Steve
Address 3310 Cameron Park Dr
City, State, Zip Cameron Park
Phone Number 530 676 6004 Fax 530 676 6005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ____ CA X NV ____ WA ____ DOD Site ____
ID ____ OR ____ OTHER ____ Page # 1 of 1

Consultant / Client Name: Olympic Stantec
Address:
City, State, Zip: SAN Lorenzo
Job #:
Job Name:
Report Attention / Project Manager
Name: Steve
Email:
Phone: ____ Mobile: ____

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. # / Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required: 8260-BTEX	Analyses Required: MTBE	Data Validation Level: III or IV	REMARKS
0633	6/9	AR	STR110613O1-01	Oly A Sys Inf	STD		1-T	X	X	EDD / EDF? YES ____ NO ____ Global ID # ____	Run even if out of Hold

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c) (2)). Sampled By: CHLC

Relinquished by: (Signature/Affiliation) Stantec	Received by: (Signature/Affiliation) Lisa deSalvo	Date: 6-10-11	Time: 13:45
Relinquished by: (Signature/Affiliation) Lisa deSalvo 6-10-11 1530	Received by: (Signature/Affiliation) Elizabeth Adcox/Alpha	Date: 6.13.11	Time: 8:12
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

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

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	EDF - Pilot Study/ Treatability Report
Submittal Title:	SYS INF 6-10-11
Facility Global ID:	T0600102256
Facility Name:	OLYMPIC STATION
File Name:	11061301_EDF.zip
Organization Name:	Stratus Environmental, Inc.
Username:	STRATUS NOCAL
IP Address:	12.186.106.98
Submittal Date/Time:	10/18/2011 7:23:47 AM
Confirmation Number:	7660705506

VIEW QC REPORT

VIEW DETECTIONS REPORT

Air Toxics LTD.
Laboratory Services Since 1989

6/24/2011
Mr. Kiran Nagaraju
Stratus Environmental, Inc.
3330 Cameron Park Drive
Suite 550
Cameron Park CA 95682-8861

Project Name: Olympic Station
Project #:
Workorder #: 1106266

Dear Mr. Kiran Nagaraju

The following report includes the data for the above referenced project for sample(s) received on 6/13/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1106266

Work Order Summary

CLIENT:	Mr. Kiran Nagaraju Stratus Environmental, Inc. 3330 Cameron Park Drive Suite 550 Cameron Park, CA 95682-8861	**BILL TO:**	Mr. Kiran Nagaraju Stratus Environmental, Inc. 3330 Cameron Park Drive Suite 550 Cameron Park, CA 95682-8861
PHONE:	530-676-6007	**P.O. #**	061311-1436-01
FAX:	530-676-6005	**PROJECT #**	Olympic Station
DATE RECEIVED:	06/13/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	06/22/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	OLY A SYS INF	Modified TO-15	5.0 "Hg	5 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA
04AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: _____ DATE: 06/22/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

Air Toxics LTD.
Laboratory Services Since 1989

LABORATORY NARRATIVE
EPA Method TO-15
Stratus Environmental, Inc.
Workorder# 1106266

One 6 Liter Summa Canister sample was received on June 13, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on sample OLY A SYS INF due to the presence of high level non-target species.

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: OLY A SYS INF

Lab ID#: 1106266-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	80	1600	290	5700
Benzene	80	5700	260	18000
Toluene	80	120	300	460
Ethyl Benzene	80	2900	350	12000
m,p-Xylene	80	2000	350	8800
o-Xylene	80	370	350	1600
TPH ref. to Gasoline (MW=100)	4000	1400000	16000	5700000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OLY A SYS INF

Lab ID#: 1106266-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2061623**	**Date of Collection: 6/12/11 11:30:00 AM**	
Dil. Factor:	**161**	**Date of Analysis: 6/16/11 09:05 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	80	1600	290	5700
Benzene	80	5700	260	18000
Toluene	80	120	300	460
Ethyl Benzene	80	2900	350	12000
m,p-Xylene	80	2000	350	8800
o-Xylene	80	370	350	1600
TPH ref. to Gasoline (MW=100)	4000	1400000	16000	5700000

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1106266-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2061607**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/16/11 09:56 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
TPH ref. to Gasoline (MW=100)	25	Not Detected	100	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	76	70-130

Air Toxics LTD.
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Client Sample ID: CCV

Lab ID#: 1106266-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2061603	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/16/11 07:31 AM	

Compound	%Recovery
Methyl tert-butyl ether	87
Benzene	102
Toluene	99
Ethyl Benzene	100
m,p-Xylene	99
o-Xylene	101
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	82	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
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Client Sample ID: LCS

Lab ID#: 1106266-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2061604	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/16/11 08:06 AM	

Compound	%Recovery
Methyl tert-butyl ether	102
Benzene	119
Toluene	113
Ethyl Benzene	112
m,p-Xylene	116
o-Xylene	116
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	82	70-130
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1106266-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2061606	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/16/11 09:12 AM	

Compound	%Recovery
Methyl tert-butyl ether	102
Benzene	120
Toluene	114
Ethyl Benzene	113
m,p-Xylene	115
o-Xylene	114
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	83	70-130
4-Bromofluorobenzene	90	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Steve Carter
Collected by: (Print and Sign) Steve Carter
Company Stratus Environmental Email Scarter@stratusinc.net
Address 3330 Cameron Park Drive Suite 550 City Cameron Park State CA Zip 95682
Phone 530-676-6008 Fax 530-676-6005

Project Info:
P.O. #
Project #
Project Name Olympic Station

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	01y A SYSINF	5673	6/12/11	11:30 am	GRO BTEX MTBE	30			

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Steve Carter 6/13/11 10:24	AIR 6/13/11 1024
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	HAND		NA	GOOD	Yes No None	1106266

Form 1293 rev.11

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	**EDF - Pilot Study/ Treatability Report**
Submittal Title:	**INF 6-7-11**
Facility Global ID:	**T0600102256**
Facility Name:	**OLYMPIC STATION**
File Name:	**11060946_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**10/18/2011 7:32:43 AM**
Confirmation Number:	8772597551

VIEW QC REPORT

VIEW DETECTIONS REPORT

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Steve Carter
Phone: (530) 676-6008
Fax: (530) 676-6005
Date Received : 06/09/11

Job: Olympic Station

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

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID : **Oly W INF**					
Lab ID : STR11060946-01A	TPH-P (GRO)	1,000	100 µg/L	06/10/11	06/10/11
Date Sampled 06/07/11 05:35	Methyl tert-butyl ether (MTBE)	110	0.50 µg/L	06/10/11	06/10/11
	Benzene	99	0.50 µg/L	06/10/11	06/10/11
	Toluene	1.0	0.50 µg/L	06/10/11	06/10/11
	Ethylbenzene	12	0.50 µg/L	06/10/11	06/10/11
	m,p-Xylene	2.3	0.50 µg/L	06/10/11	06/10/11
	o-Xylene	0.72	0.50 µg/L	06/10/11	06/10/11
Client ID : **Oly W INF**					
Lab ID : STR11060946-02A	TPH-P (GRO)	980	100 µg/L	06/10/11	06/10/11
Date Sampled 06/07/11 07:50	Methyl tert-butyl ether (MTBE)	130	0.50 µg/L	06/10/11	06/10/11
	Benzene	92	0.50 µg/L	06/10/11	06/10/11
	Toluene	1.2	0.50 µg/L	06/10/11	06/10/11
	Ethylbenzene	16	0.50 µg/L	06/10/11	06/10/11
	m,p-Xylene	3.7	0.50 µg/L	06/10/11	06/10/11
	o-Xylene	0.81	0.50 µg/L	06/10/11	06/10/11
Client ID : **Oly W INF**					
Lab ID : STR11060946-03A	TPH-P (GRO)	290	100 µg/L	06/10/11	06/10/11
Date Sampled 06/07/11 09:40	Methyl tert-butyl ether (MTBE)	520	0.50 µg/L	06/10/11	06/10/11
	Benzene	0.64	0.50 µg/L	06/10/11	06/10/11
	Toluene	ND	0.50 µg/L	06/10/11	06/10/11
	Ethylbenzene	ND	0.50 µg/L	06/10/11	06/10/11
	m,p-Xylene	ND	0.50 µg/L	06/10/11	06/10/11
	o-Xylene	ND	0.50 µg/L	06/10/11	06/10/11
Client ID : **Oly W INF**					
Lab ID : STR11060946-04A	TPH-P (GRO)	330	100 µg/L	06/10/11	06/10/11
Date Sampled 06/07/11 11:40	Methyl tert-butyl ether (MTBE)	630	0.50 µg/L	06/10/11	06/10/11
	Benzene	0.57	0.50 µg/L	06/10/11	06/10/11
	Toluene	ND	0.50 µg/L	06/10/11	06/10/11
	Ethylbenzene	ND	0.50 µg/L	06/10/11	06/10/11
	m,p-Xylene	ND	0.50 µg/L	06/10/11	06/10/11
	o-Xylene	ND	0.50 µg/L	06/10/11	06/10/11
Client ID : **Oly W INF**					
Lab ID : STR11060946-05A	TPH-P (GRO)	190	50 µg/L	06/10/11	06/10/11
Date Sampled 06/07/11 13:40	Methyl tert-butyl ether (MTBE)	90	0.50 µg/L	06/10/11	06/10/11
	Benzene	18	0.50 µg/L	06/10/11	06/10/11
	Toluene	ND	0.50 µg/L	06/10/11	06/10/11
	Ethylbenzene	ND	0.50 µg/L	06/10/11	06/10/11
	m,p-Xylene	ND	0.50 µg/L	06/10/11	06/10/11
	o-Xylene	ND	0.50 µg/L	06/10/11	06/10/11

Alpha Analytical, Inc.

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

Client ID :	**Oly W INF**					
Lab ID :	STR11060946-06A	TPH-P (GRO)	250	50 µg/L	06/10/11	06/10/11
Date Sampled	06/07/11 15:40	Methyl tert-butyl ether (MTBE)	95	0.50 µg/L	06/10/11	06/10/11
		Benzene	21	0.50 µg/L	06/10/11	06/10/11
		Toluene	ND	0.50 µg/L	06/10/11	06/10/11
		Ethylbenzene	ND	0.50 µg/L	06/10/11	06/10/11
		m,p-Xylene	ND	0.50 µg/L	06/10/11	06/10/11
		o-Xylene	ND	0.50 µg/L	06/10/11	06/10/11
Client ID :	**Oly W INF**					
Lab ID :	STR11060946-07A	TPH-P (GRO)	840	50 µg/L	06/10/11	06/10/11
Date Sampled	06/07/11 17:25	Methyl tert-butyl ether (MTBE)	300	0.50 µg/L	06/10/11	06/10/11
		Benzene	63	0.50 µg/L	06/10/11	06/10/11
		Toluene	0.74	0.50 µg/L	06/10/11	06/10/11
		Ethylbenzene	11	0.50 µg/L	06/10/11	06/10/11
		m,p-Xylene	2.4	0.50 µg/L	06/10/11	06/10/11
		o-Xylene	ND	0.50 µg/L	06/10/11	06/10/11

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

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

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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

6/16/11

Report Date

Alpha Analytical, Inc.

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

VOC Sample Preservation Report

Work Order: STR11060946 **Job:** Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11060946-01A	Oly W INF	Aqueous	2
11060946-02A	Oly W INF	Aqueous	2
11060946-03A	Oly W INF	Aqueous	2
11060946-04A	Oly W INF	Aqueous	2
11060946-05A	Oly W INF	Aqueous	2
11060946-06A	Oly W INF	Aqueous	2
11060946-07A	Oly W INF	Aqueous	2

6/16/11
Report Date

Alpha Analytical, Inc.

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

Date: *14-Jun-11*

QC Summary Report

Work Order: 11060946

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\110610\11061005.D** Batch ID: **MS10W0610B** Analysis Date: **06/10/2011 11:21**

Sample ID: **MBLK MS10W0610B** Units : **µg/L** Run ID: **MSD_10_110610A** Prep Date: **06/10/2011 11:21**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.12		10		91	70	130			
Surr: Toluene-d8	9.48		10		95	70	130			
Surr: 4-Bromofluorobenzene	11.3		10		113	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\110610\11061004.D** Batch ID: **MS10W0610B** Analysis Date: **06/10/2011 11:00**

Sample ID: **GLCS MS10W0610B** Units : **µg/L** Run ID: **MSD_10_110610A** Prep Date: **06/10/2011 11:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	383	50	400		96	70	130			
Surr: 1,2-Dichloroethane-d4	9.57		10		96	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	11.2		10		112	70	130			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\110610\11061008.D** Batch ID: **MS10W0610B** Analysis Date: **06/10/2011 12:33**

Sample ID: **11060946-05AGS** Units : **µg/L** Run ID: **MSD_10_110610A** Prep Date: **06/10/2011 12:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2040	250	2000	193.9	92	51	144			
Surr: 1,2-Dichloroethane-d4	46.7		50		93	70	130			
Surr: Toluene-d8	49.7		50		99	70	130			
Surr: 4-Bromofluorobenzene	56.9		50		114	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\110610\11061009.D** Batch ID: **MS10W0610B** Analysis Date: **06/10/2011 12:54**

Sample ID: **11060946-05AGSD** Units : **µg/L** Run ID: **MSD_10_110610A** Prep Date: **06/10/2011 12:54**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2020	250	2000	193.9	91	51	144	2044	1.3(29)	
Surr: 1,2-Dichloroethane-d4	47.7		50		95	70	130			
Surr: Toluene-d8	50.1		50		100	70	130			
Surr: 4-Bromofluorobenzene	56.3		50		113	70	130			

Comments:

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

Reported in micrograms per Liter, per client request.

Alpha Analytical, Inc.

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

Date: 14-Jun-11

QC Summary Report

Work Order: 11060946

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\110610\11061005.D** Batch ID: **MS10W0610A** Analysis Date: **06/10/2011 11:21**

Sample ID: **MBLK MS10W0610A** Units : **µg/L** Run ID: **MSD_10_110610A** Prep Date: **06/10/2011 11:21**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	9.12		10		91	70	130			
Surr: Toluene-d8	9.48		10		95	70	130			
Surr: 4-Bromofluorobenzene	11.3		10		113	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\110610\11061003.D** Batch ID: **MS10W0610A** Analysis Date: **06/10/2011 10:39**

Sample ID: **LCS MS10W0610A** Units : **µg/L** Run ID: **MSD_10_110610A** Prep Date: **06/10/2011 10:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.83	0.5	10		98	65	140			
Benzene	9.97	0.5	10		99.7	70	130			
Toluene	10.5	0.5	10		105	80	120			
Ethylbenzene	9.77	0.5	10		98	80	120			
m,p-Xylene	10	0.5	10		100	70	130			
o-Xylene	10.1	0.5	10		101	70	130			
Surr: 1,2-Dichloroethane-d4	9.22		10		92	70	130			
Surr: Toluene-d8	10.4		10		104	70	130			
Surr: 4-Bromofluorobenzene	11		10		110	70	130			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\110610\11061006.D** Batch ID: **MS10W0610A** Analysis Date: **06/10/2011 11:51**

Sample ID: **11060946-05AMS** Units : **µg/L** Run ID: **MSD_10_110610A** Prep Date: **06/10/2011 11:51**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	100	1.3	50	90.12	21	47	150			M2
Benzene	50.9	1.3	50	17.63	66	59	138			
Toluene	42.3	1.3	50	0	85	68	130			
Ethylbenzene	39.7	1.3	50	0	79	68	130			
m,p-Xylene	40.9	1.3	50	0	82	68	131			
o-Xylene	40.4	1.3	50	0	81	70	130			
Surr: 1,2-Dichloroethane-d4	40.8		50		82	70	130			
Surr: Toluene-d8	54.6		50		109	70	130			
Surr: 4-Bromofluorobenzene	58.2		50		116	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\110610\11061007.D** Batch ID: **MS10W0610A** Analysis Date: **06/10/2011 12:12**

Sample ID: **11060946-05AMSD** Units : **µg/L** Run ID: **MSD_10_110610A** Prep Date: **06/10/2011 12:12**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	126	1.3	50	90.12	72	47	150	100.5	22.8(40)	
Benzene	59.6	1.3	50	17.63	84	59	138	50.87	15.8(21)	
Toluene	44.2	1.3	50	0	88	68	130	42.29	4.4(20)	
Ethylbenzene	41.8	1.3	50	0	84	68	130	39.65	5.2(20)	
m,p-Xylene	43.3	1.3	50	0	87	68	131	40.87	5.7(20)	
o-Xylene	43.2	1.3	50	0	86	70	130	40.44	6.5(20)	
Surr: 1,2-Dichloroethane-d4	53.2		50		106	70	130			
Surr: Toluene-d8	50.8		50		102	70	130			
Surr: 4-Bromofluorobenzene	55.9		50		112	70	130			

Comments:

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

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : STR11060946

Report Due By : 5:00 PM On : 16-Jun-11

Report Attention	Phone Number	EMail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

EDD Required : **Yes**

Sampled by : C. Hill

PO :

Client's COC # : 33099 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
4 °C	09-Jun-11	09-Jun-11

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_W	VOC_W						Sample Remarks
STR11060946-01A	Oly W INF	AQ	06/07/11 05:35	5	0	5	GAS-C	BTXE/M_C						
STR11060946-02A	Oly W INF	AQ	06/07/11 07:50	5	0	5	GAS-C	BTXE/M_C						
STR11060946-03A	Oly W INF	AQ	06/07/11 09:40	5	0	5	GAS-C	BTXE/M_C						
STR11060946-04A	Oly W INF	AQ	06/07/11 11:40	5	0	5	GAS-C	BTXE/M_C						
STR11060946-05A	Oly W INF	AQ	06/07/11 13:40	5	0	5	GAS-C	BTXE/M_C						
STR11060946-06A	Oly W INF	AQ	06/07/11 15:40	5	0	5	GAS-C	BTXE/M_C						
STR11060946-07A	Oly W INF	AQ	06/07/11 17:25	5	0	5	GAS-C	BTXE/M_C						

Comments: Security seals intact. Frozen ice. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Tara Dickinson	Tara Dickinson	Alpha Analytical, Inc.	6/9/11 1247

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

Billing Information:
Company Name Stratus
Attn: Steve
Address 3330 Cameron Pk
City, State, Zip Cameron Pk
Phone Number 5306766004 Fax 5306766005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ____ CA ____ NV ____ WA ____ DOD Site ____
ID ____ OR ____ OTHER ____

Page # 1 of 1

Consultant / Client Name: Olympic Station
Address:
City, State, Zip: San Lorenzo

Job #:
Job Name:

Report Attention / Project Manager
Name: Steve
Email:
Phone: Mobile:

Analyses Required

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. # / Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	GRO-BTEX	MTBE						REMARKS
0530	6.7	AR	STR1100146-01	Oly w INF	STD		5-V	X	X						
0750	6.7	AR	-02	Oly w INF	STD		5-V	X	X						
0940	6.7	AR	-03	Oly w INF	STD		5-V	X	X						
1140	6.7	AR	-04	Oly w INF	STD		5-V	X	X						
1340	6.7	AR	-05	Oly w INF	STD		5-V	X	X						
1540	6.7	AR	-06	Oly w INF	STD		5-V	X	X						
1725	6.7	AR	-07	Oly w INF	STD		5-V	X	X						

Data Validation Level: III or IV

EDD / EDF? YES ____ NO ____
Global ID # ____

ADDITIONAL INSTRUCTIONS: F

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c) (2)). Sampled By: CH/LC

Relinquished by: (Signature/Affiliation) Stratus	Received by: (Signature/Affiliation)	Date: 6-8-11	Time: 9:10
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation) Alpha	Date: 6/9/11	Time: 1249
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

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

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	**EDF - Pilot Study/ Treatability Report**
Submittal Title:	**INF 6-9-11**
Facility Global ID:	**T0600102256**
Facility Name:	**OLYMPIC STATION**
File Name:	**11061321_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**10/18/2011 7:34:18 AM**
Confirmation Number:	9526733338

VIEW QC REPORT

VIEW DETECTIONS REPORT

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Steve Carter
Phone: (530) 676-6008
Fax: (530) 676-6005
Date Received : 06/11/11

Job: Olympic Station

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

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**Oly W INF**					
Lab ID :	STR11061321-01A	TPH-P (GRO)	1,700	100 µg/L	06/14/11	06/14/11
Date Sampled	06/09/11 10:30	Methyl tert-butyl ether (MTBE)	300	0.50 µg/L	06/14/11	06/14/11
		Benzene	110	0.50 µg/L	06/14/11	06/14/11
		Toluene	2.0	0.50 µg/L	06/14/11	06/14/11
		Ethylbenzene	38	0.50 µg/L	06/14/11	06/14/11
		m,p-Xylene	22	0.50 µg/L	06/14/11	06/14/11
		o-Xylene	4.7	0.50 µg/L	06/14/11	06/14/11
Client ID :	**Oly W INF**					
Lab ID :	STR11061321-02A	TPH-P (GRO)	1,600	100 µg/L	06/14/11	06/14/11
Date Sampled	06/10/11 06:42	Methyl tert-butyl ether (MTBE)	270	0.50 µg/L	06/14/11	06/14/11
		Benzene	96	0.50 µg/L	06/14/11	06/14/11
		Toluene	1.8	0.50 µg/L	06/14/11	06/14/11
		Ethylbenzene	42	0.50 µg/L	06/14/11	06/14/11
		m,p-Xylene	24	0.50 µg/L	06/14/11	06/14/11
		o-Xylene	5.7	0.50 µg/L	06/14/11	06/14/11

Gasoline Range Organics (GRO) C4-C13

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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

6/20/11
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: STR11061321 **Job:** Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11061321-01A	Oly W INF	Aqueous	2
11061321-02A	Oly W INF	Aqueous	2

6/20/11

Report Date

Alpha Analytical, Inc.

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

Date: *20-Jun-11*

QC Summary Report

Work Order: 11061321

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\110614\11061406.D** Batch ID: **MS10W0614B** Analysis Date: **06/14/2011 11:48**

Sample ID: **MBLK MS10W0614B** Units : **µg/L** Run ID: **MSD_10_110614A** Prep Date: **06/14/2011 11:48**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	11.9		10		119	70	130			
Surr: Toluene-d8	9		10		90	70	130			
Surr: 4-Bromofluorobenzene	10.9		10		109	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\110614\11061407.D** Batch ID: **MS10W0614B** Analysis Date: **06/14/2011 12:11**

Sample ID: **GLCS MS10W0614B** Units : **µg/L** Run ID: **MSD_10_110614A** Prep Date: **06/14/2011 12:11**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	382	50	400		95	70	130			
Surr: 1,2-Dichloroethane-d4	11.8		10		118	70	130			
Surr: Toluene-d8	9.69		10		97	70	130			
Surr: 4-Bromofluorobenzene	10.7		10		107	70	130			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\110614\11061410.D** Batch ID: **MS10W0614B** Analysis Date: **06/14/2011 13:24**

Sample ID: **11060926-01AGS** Units : **µg/L** Run ID: **MSD_10_110614A** Prep Date: **06/14/2011 13:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1710	250	2000	0	86	51	144			
Surr: 1,2-Dichloroethane-d4	56.6		50		113	70	130			
Surr: Toluene-d8	46.5		50		93	70	130			
Surr: 4-Bromofluorobenzene	52		50		104	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\110614\11061411.D** Batch ID: **MS10W0614B** Analysis Date: **06/14/2011 13:46**

Sample ID: **11060926-01AGSD** Units : **µg/L** Run ID: **MSD_10_110614A** Prep Date: **06/14/2011 13:46**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1840	250	2000	0	92	51	144	1715	7.1(29)	
Surr: 1,2-Dichloroethane-d4	57.8		50		116	70	130			
Surr: Toluene-d8	47.9		50		96	70	130			
Surr: 4-Bromofluorobenzene	50.8		50		102	70	130			

Comments:

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

Reported in micrograms per Liter, per client request.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 20-Jun-11

QC Summary Report

Work Order: 11061321

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\110614\11061406.D** Batch ID: **MS10W0614A** Analysis Date: **06/14/2011 11:48**

Sample ID: **MBLK MS10W0614A** Units : **µg/L** Run ID: **MSD_10_110614A** Prep Date: **06/14/2011 11:48**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	11.9		10		119	70	130			
Surr: Toluene-d8	9		10		90	70	130			
Surr: 4-Bromofluorobenzene	10.9		10		109	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\110614\11061404.D** Batch ID: **MS10W0614A** Analysis Date: **06/14/2011 11:04**

Sample ID: **LCS MS10W0614A** Units : **µg/L** Run ID: **MSD_10_110614A** Prep Date: **06/14/2011 11:04**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.6	0.5	10		96	65	140			
Benzene	9.61	0.5	10		96	70	130			
Toluene	8.45	0.5	10		85	80	120			
Ethylbenzene	8.31	0.5	10		83	80	120			
m,p-Xylene	8.48	0.5	10		85	70	130			
o-Xylene	8.52	0.5	10		85	70	130			
Surr: 1,2-Dichloroethane-d4	12.2		10		122	70	130			
Surr: Toluene-d8	9.34		10		93	70	130			
Surr: 4-Bromofluorobenzene	10.3		10		103	70	130			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\110615\11061530.D** Batch ID: **MS10W0614A** Analysis Date: **06/15/2011 20:57**

Sample ID: **11060926-01AMS** Units : **µg/L** Run ID: **MSD_10_110614A** Prep Date: **06/15/2011 20:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	49.7	1.3	50	0	99	47	150			
Benzene	50.1	1.3	50	0	100	59	138			
Toluene	48.6	1.3	50	0	97	68	130			
Ethylbenzene	46.9	1.3	50	0	94	68	130			
m,p-Xylene	48.3	1.3	50	0	97	68	131			
o-Xylene	48.5	1.3	50	0	97	70	130			
Surr: 1,2-Dichloroethane-d4	43.5		50		87	70	130			
Surr: Toluene-d8	50.5		50		101	70	130			
Surr: 4-Bromofluorobenzene	49.1		50		98	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\110614\11061409.D** Batch ID: **MS10W0614A** Analysis Date: **06/14/2011 13:02**

Sample ID: **11060926-01AMSD** Units : **µg/L** Run ID: **MSD_10_110614A** Prep Date: **06/14/2011 13:02**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	46.4	1.3	50	0	93	47	150	49.66	6.8(40)	
Benzene	46.4	1.3	50	0	93	59	138	50.14	7.8(21)	
Toluene	42.9	1.3	50	0	86	68	130	48.61	12.5(20)	
Ethylbenzene	42	1.3	50	0	84	68	130	46.88	10.9(20)	
m,p-Xylene	43.5	1.3	50	0	87	68	131	48.28	10.3(20)	
o-Xylene	43.7	1.3	50	0	87	70	130	48.48	10.4(20)	
Surr: 1,2-Dichloroethane-d4	62.9		50		126	70	130			
Surr: Toluene-d8	48.3		50		97	70	130			
Surr: 4-Bromofluorobenzene	50.2		50		100	70	130			

Comments:

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : STR11061321

Report Due By : 5:00 PM On : 20-Jun-11

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention	Phone Number	EMail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

EDD Required : **Yes**

Sampled by : C. Hill

PO :

Client's COC # : 33101 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
0 °C	11-Jun-11	13-Jun-11

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_W	VOC_W	Sample Remarks
STR11061321-01A	Oly W INF	AQ	06/09/11 10:30	5	0	5	GAS-C	BTXE/M_C	
STR11061321-02A	Oly W INF	AQ	06/10/11 06:42	5	0	5	GAS-C	BTXE/M_C	

Comments: Security seals intact. Frozen ice. Saturday delivery. Samples received 6/11/11 kept cold and secure until login on 6/13/11. :

	Signature	Print Name	Company	Date/Time
Logged in by:	K Murray	K Murray	Alpha Analytical, Inc.	6/13/11 0945

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

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

55101

Billing Information:
Company Name: Stratus
Attn: Steve
Address: 3330 Cameron Park Dr
City, State, Zip: Cameron Park
Phone Number: 530 676 6004 Fax: 530 676 6005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ____ CA X NV ____ WA ____ DOD Site ____
ID ____ OR ____ OTHER ____

Consultant / Client Name: Olympic Station
Address:
City, State, Zip: San Lorenzo

Job #:
Job Name:

Report Attention / Project Manager
Name: Steve
Email:
Phone: ____ Mobile: ____

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. # / Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required: GRO-BTEX	Analyses Required: MTBE	Data Validation Level: III or IV	REMARKS
1030	6/9/11	AQ	STR1106132 1-01	Oly W Inf	STD		5-V	X	X	EDD / EDF? YES ____ NO ____	
0642	6/10/11	AQ	02	Oly W Inf	STD		5 V	X	X	Global ID # ____	

FOR LAB USE ONLY

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c)(2)). Sampled By: CMLE

Relinquished by: (Signature/Affiliation) Stratus	Received by: (Signature/Affiliation)	Date: 6-10-11	Time: 1245
Relinquished by: (Signature/Affiliation) 1530 6-10-11	Received by: (Signature/Affiliation)	Date: 6/13/11	Time: 0940
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

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

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	**EDF - Pilot Study/ Treatability Report**
Submittal Title:	**INF 6-12-11**
Facility Global ID:	**T0600102256**
Facility Name:	**OLYMPIC STATION**
File Name:	**11061443_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**10/18/2011 7:34:57 AM**
Confirmation Number:	**8987517595**

VIEW QC REPORT

VIEW DETECTIONS REPORT

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Steve Carter
Phone: (530) 676-6008
Fax: (530) 676-6005
Date Received : 06/14/11

Job: Olympic Station

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

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**Oly W INF**					
Lab ID :	STR11061443-01A	TPH-P (GRO)	1,300	100 µg/L	06/15/11	06/15/11
Date Sampled	06/12/11 10:50	Methyl tert-butyl ether (MTBE)	220	0.50 µg/L	06/15/11	06/15/11
		Benzene	69	0.50 µg/L	06/15/11	06/15/11
		Toluene	1.6	0.50 µg/L	06/15/11	06/15/11
		Ethylbenzene	35	0.50 µg/L	06/15/11	06/15/11
		m,p-Xylene	28	0.50 µg/L	06/15/11	06/15/11
		o-Xylene	7.9	0.50 µg/L	06/15/11	06/15/11

Gasoline Range Organics (GRO) C4-C13
ND = Not Detected
Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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

6/21/11
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: STR11061443 **Job:** Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11061443-01A	Oly W INF	Aqueous	2

6/21/11

Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *16-Jun-11*

QC Summary Report

Work Order: 11061443

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\110615\11061507.D** Batch ID: **MS10W0615B** Analysis Date: **06/15/2011 12:42**

Sample ID: **MBLK MS10W0615B** Units : **µg/L** Run ID: **MSD_10_110615A** Prep Date: **06/15/2011 12:42**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	8.97		10		90	70	130			
Surr: Toluene-d8	9.21		10		92	70	130			
Surr: 4-Bromofluorobenzene	10.2		10		102	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\110615\11061506.D** Batch ID: **MS10W0615B** Analysis Date: **06/15/2011 12:09**

Sample ID: **GLCS MS10W0615B** Units : **µg/L** Run ID: **MSD_10_110615A** Prep Date: **06/15/2011 12:09**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	341	50	400		85	70	130			
Surr: 1,2-Dichloroethane-d4	8.71		10		87	70	130			
Surr: Toluene-d8	9.81		10		98	70	130			
Surr: 4-Bromofluorobenzene	10.4		10		104	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\110615\11061512.D** Batch ID: **MS10W0615B** Analysis Date: **06/15/2011 14:32**

Sample ID: **11061313-01AGS** Units : **µg/L** Run ID: **MSD_10_110615A** Prep Date: **06/15/2011 14:32**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1930	250	2000	0	0	51	144			
Surr: 1,2-Dichloroethane-d4	45.4		50		91	70	130			
Surr: Toluene-d8	49.6		50		99	70	130			
Surr: 4-Bromofluorobenzene	49.7		50		99	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **C:\HPCHEM\MS10\DATA\110615\11061513.D** Batch ID: **MS10W0615B** Analysis Date: **06/15/2011 14:54**

Sample ID: **11061313-01AGSD** Units : **µg/L** Run ID: **MSD_10_110615A** Prep Date: **06/15/2011 14:54**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2010	250	2000	0	0	51	144	1927	4.2(29)	
Surr: 1,2-Dichloroethane-d4	46.4		50		93	70	130			
Surr: Toluene-d8	50.2		50		100	70	130			
Surr: 4-Bromofluorobenzene	48.4		50		97	70	130			

Comments:

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

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *16-Jun-11*

QC Summary Report

Work Order: 11061443

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\110615\11061507.D** Batch ID: **MS10W0615A** Analysis Date: **06/15/2011 12:42**

Sample ID: **MBLK MS10W0615A** Units : **µg/L** Run ID: **MSD_10_110615A** Prep Date: **06/15/2011 12:42**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	8.97		10		90	70	130			
Surr: Toluene-d8	9.21		10		92	70	130			
Surr: 4-Bromofluorobenzene	10.2		10		102	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\110615\11061505.D** Batch ID: **MS10W0615A** Analysis Date: **06/15/2011 11:20**

Sample ID: **LCS MS10W0615A** Units : **µg/L** Run ID: **MSD_10_110615A** Prep Date: **06/15/2011 11:20**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.99	0.5	10		99.9	65	140			
Benzene	10.2	0.5	10		102	70	130			
Toluene	9.73	0.5	10		97	80	120			
Ethylbenzene	9.46	0.5	10		95	80	120			
m,p-Xylene	9.82	0.5	10		98	70	130			
o-Xylene	9.81	0.5	10		98	70	130			
Surr: 1,2-Dichloroethane-d4	8.94		10		89	70	130			
Surr: Toluene-d8	9.89		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.67		10		97	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\110615\11061510.D** Batch ID: **MS10W0615A** Analysis Date: **06/15/2011 13:48**

Sample ID: **11061313-01AMS** Units : **µg/L** Run ID: **MSD_10_110615A** Prep Date: **06/15/2011 13:48**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	46	1.3	50	0	92	47	150			
Benzene	44.8	1.3	50	0	90	59	138			
Toluene	43.8	1.3	50	0	88	68	130			
Ethylbenzene	43	1.3	50	0	86	68	130			
m,p-Xylene	44.3	1.3	50	0	89	68	131			
o-Xylene	44.3	1.3	50	0	89	70	130			
Surr: 1,2-Dichloroethane-d4	49.4		50		99	70	130			
Surr: Toluene-d8	50.9		50		102	70	130			
Surr: 4-Bromofluorobenzene	48.8		50		98	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\110615\11061511.D** Batch ID: **MS10W0615A** Analysis Date: **06/15/2011 14:10**

Sample ID: **11061313-01AMSD** Units : **µg/L** Run ID: **MSD_10_110615A** Prep Date: **06/15/2011 14:10**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	49.2	1.3	50	0	98	47	150	45.95	6.8(40)	
Benzene	48.1	1.3	50	0	96	59	138	44.83	7.1(21)	
Toluene	47.9	1.3	50	0	96	68	130	43.79	9.0(20)	
Ethylbenzene	46.5	1.3	50	0	93	68	130	43.03	7.8(20)	
m,p-Xylene	48.1	1.3	50	0	96	68	131	44.34	8.2(20)	
o-Xylene	47.5	1.3	50	0	95	70	130	44.3	7.1(20)	
Surr: 1,2-Dichloroethane-d4	50.7		50		101	70	130			
Surr: Toluene-d8	51.3		50		103	70	130			
Surr: 4-Bromofluorobenzene	48.2		50		96	70	130			

Comments:

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : STR11061443

Report Due By : 5:00 PM On : 21-Jun-11

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention	Phone Number	EMail Address
Steve Carter	(530) 676-6008 x	scarter@stratusinc.net

EDD Required : **Yes**

Sampled by : Steve Carter

PO :

Client's COC # : 33105 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
6 °C	14-Jun-11	14-Jun-11

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_W	VOC_W						Sample Remarks
STR11061443-01A	Oly W INF	AQ	06/12/11 10:50	5	0	5	GAS-C	BTXE/M_C						

Comments: Security seals intact. Frozen ice. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Tara Johnson	Tara Dickinson	Alpha Analytical, Inc.	6/14/11 1207

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

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

55105

Billing Information:
Company Name Stratus
Attn: Steve Carter
Address 3330 Cameron Park Dr
City, State, Zip Cameron
Phone Number 530676 6664 Fax 530676 6005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ____ CA X NV ____ WA ____ DOD Site ____
ID ____ OR ____ OTHER ____ Page # 1 of 1

Consultant / Client Name: Olympic Station	Job #	Job Name
Address: 1436 Grant	Report Attention / Project Manager	
City, State, Zip: San Lorenzo	Name: Steve Carter	
	Email: scarter@stratusinc.net	
	Phone: ____ Mobile: ____	

Analyses Required: GRO-BTEX, MTBE

Data Validation Level: III or IV

EDD / EDF? YES ____ NO ____
Global ID # ____

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. # / Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	REMARKS
1050	6/10/11	AR	STR1106144301	Oly W Inf	3WD	N	5-V	

FOR LAB USE ONLY

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c) (2)). Sampled By: S Carter

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:
S Carter Stratus	E. Fracino	06/13/11	10:50
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:
	Marie Nicholson / Alpha	6/	1205
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

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

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	**EDF - Soil and Water Investigation Report**
Submittal Title:	**Air Samples**
Facility Global ID:	**T0600102256**
Facility Name:	**OLYMPIC STATION**
File Name:	**1106266.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**10/24/2011 2:17:27 PM**
Confirmation Number:	**4853224992**

VIEW QC REPORT

VIEW DETECTIONS REPORT