R. W. L. Investments, Inc.
4919 Tidewater Ave. Unit B.
Oakland, CA 94601
Ph# 510 434-0175

January 19, 2009

Jerry Wickham
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Ste.250
Alameda, CA 94502

Subject: Letter of Transmittal for
Site Assessment Report
4919 Tidewater Avenue, Oakland, California

Case No. RO0000107

Dear Mr. Wickham,

On behalf of R. W. L. Investments, Inc., ETIC Engineering, Inc. prepared the *Site Assessment Report* dated January 19, 2009 for the above-referenced site.

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

If you have any questions or comments, please contact me at (510) 434-0175 or Maura Dougherty (extension 41) or Alan Anselmo (extension 19) of ETIC Engineering, Inc. at (925) 602-4710.

Sincerely,
R. W. L. Investments, Inc.

Bob Lawlor
President

ETIC ENGINEERING

Site Assessment Report

Former DiSalvo Trucking
4919 Tidewater Avenue, Unit B
Oakland, California 94601

Fuel Leak Case Number: RO0000107

January 2009

Prepared For:

R.W.L. Investments, Inc.
4919 Tidewater Avenue, Unit B
Oakland, California 94601

Prepared By:

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, California 94523

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Pleasant Hill, California 94523

Nathan Diem — January 23, 2009
Nathan Diem — **Date**
Staff Geologist

Maura E. Dougherty — January 23, 2009
Maura E. Dougherty, P.E. — **Date**
Project Manager

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MAURA E. DOUGHERTY
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STATE OF CALIFORNIA

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GENERAL INFORMATION

Site Location

Former DiSalvo Trucking
4919 Tidewater Avenue, Unit B
Oakland, California 94601

Alameda County
Township 2 South, Range 3 West, Section 17 of the Mount Diablo Baseline and Meridian

Responsible Party

Bob Lawlor
R.W.L. Investments, Inc.
4919 Tidewater Avenue, Unit B
Oakland, California 94601

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1.0 INTRODUCTION

On behalf of R.W.L. Investments, Inc., ETIC Engineering, Inc. (ETIC) has prepared this *Site Assessment Report* for the former DiSalvo Trucking facility located at 4919 Tidewater Avenue in Oakland, California (the Site). ETIC conducted the activities in general accordance with the *Revised Remedial Action Plan* (*RAP*) dated July 15, 2008. The *Revised RAP* was approved by the Alameda Health Care Services Agency (ACHCSA) in their letter dated August 14, 2008 (ACHCSA, 2008b). The ACHCSA approval letter is included in Appendix A. Further clarification of the scope of work and reporting deadlines are documented in written correspondence between ETIC and ACHCSA and are included in Appendix A.

2.0 SITE BACKGROUND

2.1 DESCRIPTION OF SITE

The Site is located east of the San Francisco Bay in southwest Oakland, approximately 600 feet southeast of the Tidewater Avenue and Lesser Street intersection, on the southwest side of Tidewater Avenue (Figure 1). The Site is located in Section 17 of Township 2 South, Range 3 West. The Site is currently owned by R.W.L. Investments, Inc. and leased to Heitz Trucking.

The 3.61 acre property contains an approximately 11,800 square-foot concrete warehouse and loading dock terminal along the north side of the Site, an office trailer, and an approximately 2,770 square-foot truck repair shop and maintenance building along the south side of the Site (Figure 2). An aboveground fuel storage tank is located north of the maintenance building, and outside yard areas are located along the northwest side of the building and between the buildings.

The Site is listed as a fuel leak case and is overseen by ACHCSA.

2.2 LOCAL GEOLOGY AND HYDROGEOLOGY

Soil borings from previous onsite investigations indicate that the area beneath the Site was likely filled to create land and lift the surface roughly 5 feet above the high tide line (ART, 2007). The soil beneath the Site consists mostly of gravel and sand fill with concrete and asphalt debris (ART, 2007). The thickness of the fill material varies across the Site from about 1.5 feet thick near the southern corner to 4 to 5 feet along the northwestern property boundary to greater than 9 feet thick along Tidewater Avenue (ART, 2007). The fill is underlain by organic clay with thin interbeds of peat.

Groundwater flow direction in the area of the Site is toward the San Francisco Bay and has ranged from approximately west to south-southwest. Historically, depths to groundwater measured in monitoring wells at the Site have ranged from 1.14 to 3.88 feet below ground surface (bgs). The hydraulic gradient has historically ranged from 0.0002 to 0.008 foot-per-foot.

Groundwater gauging data measured from observation wells in the vicinity of MW-2 has been evaluated for the presence of a vertical hydraulic gradient. Well OB-5 is the only observation well screened within the clay formation between 10 and 15 feet bgs. Wells OB-3, OB-4, and OB-6 are screened within the shallower fill material between 2 and 10 feet bgs. During the June 2008 groundwater monitoring event, observation well OB-5 had the deepest depth to groundwater measurement (11.00 feet bgs) while measurements in wells OB-3, OB-4, and OB-6 ranged from 2.60 to 2.87 feet bgs (ETIC, 2008b). Although groundwater elevations for the observation wells cannot be calculated until the top of well casing elevations are surveyed, well construction and gauging data support the possibility of a downward, vertical hydraulic gradient at the Site.

Monitoring well construction details are presented in Table 1. Historical groundwater elevation data are presented in Table 2.

2.3 TOPOGRAPHY AND SURFACE WATER

The land surface in the area of the Site generally slopes down to the west toward San Francisco Bay. The Site property is relatively flat with little topographic change. The elevation of the Site is approximately 5 feet above mean sea level (msl).

The San Leandro Bay is located approximately 200 feet to the south of the Site. San Leandro Bay is connected to San Francisco Bay and the Oakland Estuary. Lake Merritt is a tidal lagoon located 5.7 miles northwest of the Site. The salt/freshwater lake covers an area of approximately 155 acres and the primary uses are recreation and aesthetics.

2.4 UST HISTORY

One 10,000-gallon diesel underground storage tank (UST), one 5,000-gallon diesel UST, and one 280-gallon used-oil UST were operated at the Site until their removal in March 1989 (GET, 1989a). The USTs were reportedly installed in 1968 with a remote dispenser system (GET, 1989b). The remote dispenser system consisted of four remote hydrants in two separate lines, one on the north side and one on the south side of the trucking terminal building. Two pressurized single-wall 2-inch diameter galvanized steel lines were connected to a red jacket pump located on the 10,000-gallon diesel UST. One 2-inch diameter product line crossed underneath the trucking terminal building and connected to the first remote hydrant on the north side of the building and the second 2-inch product line connected to the first remote hydrant on the south side of the building, adjacent to the USTs. A 1-½-inch diameter galvanized steel line connected the first hydrant to the second remote hydrant in each line. The hydrant lines were located approximately 2 feet bgs (GET, 1989b).

In March 1989, the three USTs, fill lines, and the southern remote hydrant dispenser lines were removed. Two areas of corrosion were visible when the hydrant line was removed (GET,

connected to the first remote hydrant on the north side of the building and the second 2-inch product line connected to the first remote hydrant on the south side of the building, adjacent to the USTs. A 1-½-inch diameter galvanized steel line connected the first hydrant to the second remote hydrant in each line. The hydrant lines were located approximately 2 feet bgs (GET, 1989b).

In March 1989, the three USTs, fill lines, and the southern remote hydrant dispenser lines were removed. Two areas of corrosion were visible when the hydrant line was removed (GET, 1989b). During removal activities a 550-gallon UST was discovered and also removed. Visual inspection identified two holes in the 550-gallon UST. In addition, a 10-inch diameter pipeline crossing the excavation was discovered. The pipe was broken during excavation activities and "diesel-like fuel" drained into the UST excavation (GTE, 1994a). The pipe was cut, the middle section was removed, and the ends were capped at the limits of the excavation (GTE, 1994a).

Petroleum hydrocarbons were detected at concentrations up to 240 milligrams per kilogram (mg/kg) in soil samples collected from the UST excavation. Diesel-impacted groundwater was observed flowing into the open UST excavation from the northeastern corner. The liquid-phase hydrocarbons (LPH) and contaminated groundwater were pumped from the excavation pit for disposal. In April 1989, a recovery well and recovery trench were installed from which an estimated 2,400 gallons of diesel fuel and 20,000 gallons of contaminated groundwater were recovered between April and August 1989 (GTE, 1991).

Approximately 3,000 cubic yards of excavated soil was stockpiled and treated onsite by enhanced biodegradation in 1990 (GTE, 1991). The stockpile was located adjacent to the excavation area. Soil was sampled and remediated under supervision of ACHCSA (GTE, 1994b). Confirmation soil sample results are included in the 1994 letter from Gen-Tech Environmental (GTE) to the ACHCSA (GTE, 1994b). Based on the results of confirmation samples collected on May 21, 1990, "some of the treated soil was used to fill pot holes and depressions onsite, and the remainder was moved to the front of the property (bordering Tidewater Avenue) and used for a planter berm" (GTE, 1994b). According to property owner Mr. Bob Lawlor, during a telephone conversation on July 2, 2008, the stockpiled material remains at the Site (Lawlor, 2008a). The stockpile was noted as the "debris pile" in the Murray Engineers, Inc. report (Murray) (Murray, 2006).

2.5 ENVIRONMENTAL INVESTIGATIONS (1989 THROUGH 2008)

Subsurface investigations were performed at the Site from 1989 to 2008. Historical groundwater monitoring well, soil, and grab groundwater sampling locations are presented on Figure 3. These investigations confirmed the presence of diesel- and gasoline-impacted soil and groundwater beneath the Site and identified LPH at various

locations including in monitoring wells MW-2 and MW-3. Total petroleum hydrocarbons in the diesel range (TPH-d), total petroleum hydrocarbons in the gasoline range (TPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX), and fuel oxygenate methyl tertiary butyl ether (MTBE) have been detected in groundwater samples collected at the Site.

In May 1989, Geo-Environmental Technology (GET) performed a shallow soil investigation at the Site in which 11 soil samples and one groundwater sample were collected from 22 shallow soil borings (BH-1 through BH-22). Samples were not collected from borings with obvious petroleum impacts (GET, 1989b). Soil sampling confirmed the presence of diesel-impacted soil in the area of the former UST excavation and along the former fuel dispenser hydrant line extending from the former USTs to the northeast. The maximum TPH-d concentration (46,000 mg/kg) was detected in a soil sample collected at 5 feet bgs from boring BH-11, located approximately 10 feet west of the former UST excavation (GET, 1989b). Oil and grease was detected in this same sample at a concentration of 27,000 mg/kg.

In an April 1994 soil and groundwater investigation, GTE drilled 14 borings (EB-1 through EB-11 and MW-1 through MW-3), collected soil and groundwater samples, and installed three groundwater monitoring wells (MW-1 through MW-3) (GTE, 1994c). The maximum concentrations of TPH-d (29,000 mg/kg) and oil and grease (36,000 mg/kg) in soil were detected in samples from boring MW-2. The maximum concentrations of TPH-d detected during grab groundwater sampling were 64,000 micrograms per liter (µg/L) from boring EB-2 and 73,000 µg/L from boring EW-4. Groundwater monitoring well sampling conducted on April 14, 1994 indicated LPH in monitoring well MW-2 and elevated concentrations of TPH-d and TPH-g (7,700 µg/L and 250 µg/L, respectively) in well MW-3 (GTE, 1994c).

In July 1995, Environmental Restoration Services (Enrest) drilled two soil borings and installed monitoring well MW-4 (ART, 2007). MW-4 was installed on the northern side of the terminal building. TPH-g (250 µg/L) and low concentrations of BTEX were detected in the August 1995 groundwater sample from MW-4.

PIERS Environmental (PIERS) drilled 16 soil borings (SB-1 through SB-16) during a soil and groundwater investigation in December 2000. Eight soil samples between 6 and 7 feet bgs and 16 grab groundwater samples were collected and analyzed for TPH-d. The only TPH-d detection in soil was 14 mg/kg in a sample collected from SB-16 at 6.5 feet bgs. The maximum TPH-d concentration in groundwater was 670,000 µg/L (SB-10) (PIERS, 2000). PIERS identified two main areas of TPH-d impacted soil: 1) located in the area of the former UST excavation and 2) from the northeast end of the recovery trench to the area of MW-2. TPH-d concentrations in groundwater along the northwestern property boundary were 44,000 µg/L (SB-14) and 48,000 µg/L (SB-15) and

PIERS concluded that the groundwater contamination plume extended offsite to the northwest (PIERS, 2000).

In February and April 2006, ERAS Environmental (ERAS) conducted additional subsurface investigations to further delineate vertical and lateral extents of diesel impacts in soil and groundwater at the Site (ERAS, 2006). In February 2006, ERAS collected soil and groundwater samples from soil borings B-1 through B-9 for TPH-d analysis and Murray collected soil samples from borings B-6 through B-9 for geotechnical analysis (named B-1 through B-4 for the Murray report). In April 2006, an 8-inch dewatering well (EW-1) and four observation wells (OB-3 through OB-6) were installed and soil and groundwater samples were collected from borings B-10 through B-15. No LPH was encountered during these investigations. The maximum detection of TPH-d in soil was 5,400 mg/kg collected from B-9 at 4.5 feet bgs, located adjacent to the southwestern corner of the former UST excavation. The maximum concentration of TPH-d in groundwater was 2,500,000 µg/L collected from B-12 located northwest of the former UST excavation (ERAS, 2006).

Geotechnical results were reported by Murray in an April 2006 *Limited Geotechnical Evaluation Contaminated Soil Replacement Report.* The report summarized the subsurface geology and provided shoring design parameters for potential excavation activities at the Site.

Applied Remedial Technologies, Inc. (ART) conducted a groundwater aquifer test and construction dewatering analysis. ART performed both a step drawdown pumping test and a constant-rate aquifer test at well EW-1. Pumping from EW-1 (screened across the fill material and approximately three feet into the clay unit underlying the fill material) resulted in drawdown in all observation wells screened in fill material. No drawdown was observed in well OB-5, which was screened in the clay unit, located approximately seven feet from EW-1 (ART, 2006).

In February 2007, ART prepared a *Feasibility Study Report* to address the removal of petroleum hydrocarbons from the Site subsurface. Based on the feasibility evaluation of remedial alternatives, ART recommended groundwater extraction and treatment with limited source area remediation.

In their May 29, 2007 letter, the ACHCSA requested the preparation of a RAP for the Site. In accordance with this request, ETIC submitted the RAP dated September 14, 2007 (ETIC, 2007). The RAP included a description of how the affected soil area would be precisely determined and how remedial alternatives other than excavation would be evaluated.

ACHCSA responded to the RAP with a letter dated May 1, 2008. The letter concurred with ETIC's proposal to perform a geophysical survey at the Site with the purpose of

locating existing utilities, utility trenches that act as preferential pathways, and abandoned, underground piping. The ACHCSA also included several technical comments which they requested be addressed in a revised RAP.

A geophysical survey was conducted at the Site on June 3, 2008 by NORCAL Geophysical Consultants, Inc. The survey identified multiple utility lines on the north and south side of the trucking terminal building. Several lines were identified as known utilities including sanitary sewer and electrical. Other lines were potentially identified as former fuel lines or fuel hydrant piping. All detected lines, including unidentified and undifferentiated lines were presented in the *Revised RAP*.

A *Revised RAP* was prepared and submitted to ACHCSA on July 15, 2008. The *Revised RAP* included a summary of the geophysical survey and addressed the ACHCSA's comments in their May 1, 2008 letter (ACHCSA, 2008a). ACHCSA approved the *Revised RAP* in their August 14, 2008 letter (ACHCSA, 2008b).

2.6 GROUNDWATER MONITORING (1994 THROUGH PRESENT)

Groundwater monitoring has been conducted at the Site intermittently since April 1994. Two monitoring wells, MW-2 and MW-3, historically have had LPH, which was removed by bailing. Groundwater flow direction has generally flowed from approximately west to south-southwest with a relatively shallow gradient. The second semi-annual 2008 groundwater sampling event took place in December 2008.

2.7 CURRENT SITE STATUS

The August 14, 2008 letter from ACHCSA approved the *Revised RAP* with three technical comments. ACHCSA requested that the boring located along the northern property boundary (originally C-8) be removed from the scope of work. ACHCSA also requested the addition of three borings along the shoreline area to investigate groundwater discharge to surface water. Per September 16, 2008 e-mail correspondence, an additional boring along the southern property boundary (C-16) was added to the scope of work to aid in the delineation of groundwater along the downgradient property boundary and in lieu of sampling at the shoreline (ACHCSA, 2008c). This correspondence is included in Appendix A.

The ACHCSA approval letter also requested that a recommendation for the evaluation of MW-1 be presented in the *Site Assessment Report*. In recent groundwater sampling events, monitoring well MW-1 has dewatered after the purging of one gallon. A discussion of MW-1 is presented in Section 5.0 of this report.

This report has been prepared in accordance with the ACHCSA August 14, 2008 letter. Section 3.0 presents a description of activities associated with the soil and groundwater

investigation. Section 4.0 includes an evaluation of both hydrogeologic and laboratory analytical data from the investigation. Section 5.0 presents an evaluation of well MW-1.

3.0 SOIL AND GROUNDWATER INVESTIGATION

The results of previous soil and groundwater investigations performed indicated that additional characterization of the extent of contamination was needed. Additional information was needed to delineate the vertical and lateral extent of TPH-d contamination in the area of the former UST excavation, the former fuel hydrant lines on the northern and southern sides of the building, in the area of MW-2, and along the perimeter of the property. Soil and shallow groundwater samples were collected from 16 borings to further characterize petroleum hydrocarbon contamination in the targeted areas. Soil and groundwater sampling activities took place on September 24 and 25, 2008.

3.1 BORING LOCATIONS

The September 2008 boring locations (C-1 through C-16) are shown on Figure 3. Boring locations C-1, C-2, C-3, and C-4 were located in the northeastern portion of the Site and were chosen to delineate the upgradient extent of the plume. Borings C-5 and C-8 were located in the area northwest of the trucking terminal building and were placed adjacent to the former fuel hydrant dispenser line identified during the geophysical survey and confirmed by Bob Lawlor. Borings C-6, C-7, C-9, and C-10 were located within and near the central area of the Site, near the recovery trench. These locations were placed adjacent to utility lines detected in the geophysical survey. Boring C-12 was placed downgradient of the former UST excavation. Borings C-11, C-13, C-14, C-15, and C-16 were located along the downgradient property boundary of the Site.

3.2 DRILLING AND SAMPLING

A drilling permit was obtained from ACHCSA. The permit is included in Appendix B. A site-specific health and safety plan was prepared and implemented during drilling and sampling activities. Prior to drilling activities, the proposed soil boring locations were marked and checked for the presence of underground utilities by Underground Service Alert. Subdynamic Locating Service, Inc., a private utility-locating contractor, was also hired to check for the presence of underground utilities.

Drilling was performed by Environmental Control Associates, Inc., C57-licensed contractor, using a direct-push Geoprobe 5410 or 6600 rig equipped with a 1.25-inch diameter dual-tube sampling system. Drilling equipment and sampling tools were decontaminated prior to beginning the field program. Reusable sampling equipment was

thoroughly washed with a Liqui-Nox solution, rinsed with tap water, and then rinsed with distilled water prior to each use.

Each boring location was cleared with a hand auger to an approximate depth of 2 feet bgs. A slide hammer was then used to collect an initial soil sample between 2 and 2.5 feet bgs. The borings were then advanced with the drilling rig until first groundwater was encountered while continuously logging soil lithology. One groundwater sample was collected from the shallow aquifer at each location. Once a shallow groundwater sample was collected, borings C-1, C-7, and C-12 were advanced to an approximate depth of 30 feet bgs and the remaining borings except C-15 were advanced to approximately 20 feet bgs, while continuously logging soil lithology. C-15 was terminated at 24 feet bgs due to flowing sands. In borings C-1, C-7, and C-12 groundwater was also encountered below 10 feet bgs, and a second groundwater sample was collected by hydropunch from a new boring drilled a few feet from original boring.

An ETIC geologist supervised drilling and sampling activities. Soil was examined for lithologic identification and visible signs of contamination in accordance with the Unified Soil Classification System and the Standard Practice for Description and Identification of Soils (Visual-Manual Procedure), American Society for Testing and Materials (ASTM) Designation D2488 (ASTM 2000), and the observations were recorded in the field logs. Copies of the boring logs are included in Appendix C. Technical guidance was provided by a California Professional Engineer.

A photoionization detector was used to monitor for organic vapors. Measurements of headspace vapors from soil samples were recorded on the boring logs.

In addition to the initial soil samples that were collected at 2 or 2.5 feet bgs, soil samples were also generally collected at 5-foot intervals and where petroleum hydrocarbon impacts were evident. The samples were cut directly from the acetate direct-push liners, sealed with plastic end caps, labeled, stored on ice in a thermally-insulated cooler, and then transported under chain-of-custody protocol to KIFF Analytical LLC (KIFF), a state-certified analytical laboratory. Groundwater samples were collected from 15 of the 16 boring locations using a peristaltic pump and temporary PVC casing screened across the groundwater level. LPH was detected in groundwater in C-9 and therefore no sample was collected for laboratory analysis for this location. The samples were collected in clean 40-milliter, hydrochloric-acid-preserved, volatile organic analysis vials supplied by the analytical laboratory. The sample containers were sealed, labeled, stored on ice in a thermally-insulated cooler, and then transported under chain-of-custody protocol to KIFF. Soil and groundwater samples were analyzed for TPH-d by EPA Method 8015M with silica gel cleanup and BTEX by EPA Method 8260B.

The completed borings were filled and sealed with a grout mixture consisting of neat cement, in accordance with ACHCSA and Department of Water Resources requirements.

3.3 DISPOSAL OF INVESTIGATIVE-DERIVED WASTE

Soil and water derived from the subsurface investigation were contained in drums and stored temporarily at the Site. A composite soil sample and a water sample were collected and submitted for laboratory analyses including BTEX, TPH-g, and volatile organic compounds by EPA Method 8260B, TPH-d with silica gel cleanup by EPA Method 8015M, and total lead by EPA Method 6010. Waste will be profiled and delivered to an approved disposal facility.

4.0 DATA EVALUATION

4.1 HYDROGEOLOGIC DATA

Groundwater flow direction at the Site is generally toward the San Francisco Bay and historically has ranged from approximately west to south-southwest. Historically, depths to groundwater measured in monitoring wells at the Site have ranged from 1.14 to 3.88 feet bgs. The hydraulic gradient has historically ranged from 0.0002 to 0.008 foot-per-foot.

Soil encountered during subsurface investigations at the Site consisted of clay, silt, sand, and gravel. A sand and gravel layer, varying from approximately one to five feet thick, was encountered directly beneath the asphalt throughout most of the Site. Groundwater was initially detected within this sand and gravel layer, at approximately three to five feet bgs, in some of the borings. Between approximately four to eight feet bgs, alternating lenses of silt, silty sand, and sandy silt were encountered. Sand and gravel is noted to extend to approximately 11 to 12 feet bgs within the former UST excavation. The presence of visible product and a strong petroleum hydrocarbon odor was noted from approximately five to seven feet bgs during the sampling and logging of boring C-9, drilled within the former UST excavation. A predominantly sand layer, located between approximately three and eight feet bgs, exists near the geographic center of the Site, in the area of boring C-7. The sand is loose, moist, and had a petroleum hydrocarbon odor. Clay is predominantly encountered between the approximate depths of seven to 19 feet bgs throughout most of the Site. Below the clay, sand with varying amounts of silt and/or clay has been deposited until approximately 29 feet bgs, which is underlain by clay and clayey silt. Second groundwater was encountered in the deeper borings at approximately 20 feet bgs.

4.2 ANALYTICAL DATA FOR SOIL

A total of 83 soil samples were collected from soil borings C-1 through C-16 for laboratory analyses. The samples were analyzed for TPH-d and BTEX. Analytical data for soil samples collected during this investigation are presented in Table 3. Laboratory analytical reports and chain-of-custody documentation are included in Appendix D.

TPH-d was detected in 74 soil samples. Concentrations ranged from 1.3 mg/kg in C-15 at 24 feet bgs to 3,500 mg/kg C-7 at 5 feet bgs. In a December 28, 2005 letter, ACHCSA conditionally approved a cleanup goal of 500 mg/kg for TPH-d in soil. Only seven samples collected from C-1, C-6, C-7, C-9, C-12, and C-16 between two and six feet bgs had concentrations of TPH-d which exceeded this cleanup goal.

Benzene was detected in one of the 83 samples at a concentration of 0.014 mg/kg in boring C-8 at 2.5 feet bgs. The corresponding ESL for benzene is 0.044 mg/kg where groundwater is a current or potential source of drinking water. Where groundwater is not a current or potential source of drinking water, the residential ESL is 0.12 mg/kg and the commercial/industrial ESL is 0.27 mg/kg. Toluene was detected in two samples at concentrations of 0.0061 mg/kg in boring C-7 at five feet bgs and 0.0082 mg/kg in boring C-2 at 5 feet bgs. The corresponding residential and commercial/industrial ESL for toluene is 2.9 mg/kg where groundwater is a current or potential source of drinking water, and 9.3 mg/kg where it is not. Ethylbenzene was detected in one sample at a concentration of 0.015 mg/kg in boring C-8 at a depth of 2.5 feet bgs. The corresponding residential ESL for ethylbenzene is 2.3 mg/kg and the commercial/industrial ESL for ethylbenzene is 3.3 mg/kg where groundwater is a current or potential source of drinking water. Where groundwater is not a current or potential source of drinking water, the residential ESL is 2.3 mg/kg and the commercial/industrial ESL is 4.7 mg/kg. Xylenes were detected in four samples at concentrations ranging from 0.0058 mg/kg in boring C-12 at 2.5 feet bgs to 0.066 mg/kg in boring C-8 at a depth of 2.5 feet bgs. The corresponding residential and commercial/industrial ESL for total xylenes is 2.3 mg/kg where groundwater is a current or potential source of drinking water, and 11 mg/kg where it is not.

4.3 ANALYTICAL DATA FOR GROUNDWATER

A total of 18 grab groundwater samples were collected during the September 2008 soil and groundwater investigation. The samples were analyzed for TPH-d and BTEX. LPH was detected in the groundwater from boring C-9 and as a result, a sample was not collected from this location for laboratory analysis.

Analytical data for the grab groundwater samples are presented in Table 4. Laboratory analytical reports and chain-of-custody documentation are included in Appendix D. Isoconcentration contours for TPH-d in shallow groundwater using current data are presented on Figure 4.

TPH-d was detected in 13 of the 18 samples, at concentrations ranging from 74 µg/L in C-5 to 26,000 µg/L in C-6. TPH-d was not detected in the northeastern portion of the Site (C-1, C-2, and C-4). In the ACHCSA December 28, 2005 letter, a cleanup goal for TPH-d in groundwater of 640 µg/L was approved. Five groundwater samples had concentrations of TPH-d above the cleanup goal. All five samples were collected at depths less than 10 feet bgs. Three of these samples were collected in the vicinity of the recovery trench (C-6, C-7, and C-10) and two of these samples were collected along the southern property boundary, downgradient of the former UST excavation (C-15 and C-16). Nine groundwater samples were collected below 10 feet bgs. TPH-d was detected in four of the nine samples. The maximum detection in groundwater below 10 feet bgs was 640 µg/L in C-8. BTEX was not detected in any of the groundwater samples collected.

5.0 EVALUATION OF MONITORING WELL MW-1

In order to address the ACHCSA's comment in their August 14, 2008 letter regarding groundwater monitoring well MW-1, ETIC evaluated the well's ability to provide representative groundwater samples. MW-1 was constructed with a screened interval of three to eight feet bgs. Although the well dewaters after one gallon during purging, it does recover enough to allow for the collection of a groundwater sample. It is believed that this well does provide a representative sample for the conditions of groundwater in the vicinity of the well.

6.0 SUMMARY AND CONCLUSIONS

In accordance with the *Revised RAP*, a soil and groundwater investigation was performed at the Site in September 2008. Sixteen borings were drilled up- and downgradient of the former UST excavation, adjacent to former hydrant dispenser lines, and along the property boundary for the collection of soil and groundwater samples.

Soil encountered in the 16 borings consisted of clay, silt, sand, and gravel. Sampling confirmed the presence of petroleum hydrocarbons. The highest concentrations of TPH-d were detected in soil samples collected between two and six feet bgs. Seven soil samples had TPH-d concentrations higher than the cleanup goal of 500 mg/kg.

Grab groundwater samples were also collected during this investigation. LPH was detected in groundwater in the boring in the northern portion of the former UST excavation (C-9). The highest concentrations of TPH-d were found in samples collected near the recovery trench and downgradient of the former UST excavation. Five samples had TPH-d concentrations higher than the cleanup goal of 640 µg/L.

In the *Revised RAP*, ETIC proposed the installation of an additional groundwater monitoring well in the northern corner of the Site. The proposed well was to target the fill material in the northern corner of the Site and to delineate the lateral extent of groundwater contamination at the Site. However, TPH-d was not detected in groundwater samples collected from borings in the northeastern portion of the Site (C-1, C-2, and C-4) during the September 2008 investigation. Per the November 3, 2008 e-mail correspondence, the ACHCSA approved ETIC's request to eliminate the well installation activities based on the results of the September 2008 investigation (ACHCSA, 2008d). This correspondence is included in Appendix A.

In summary, the soil and groundwater investigation confirmed the presence of TPH-d in the shallow soil and shallow groundwater (above 10 feet bgs) beneath the site.

7.0 REFERENCES

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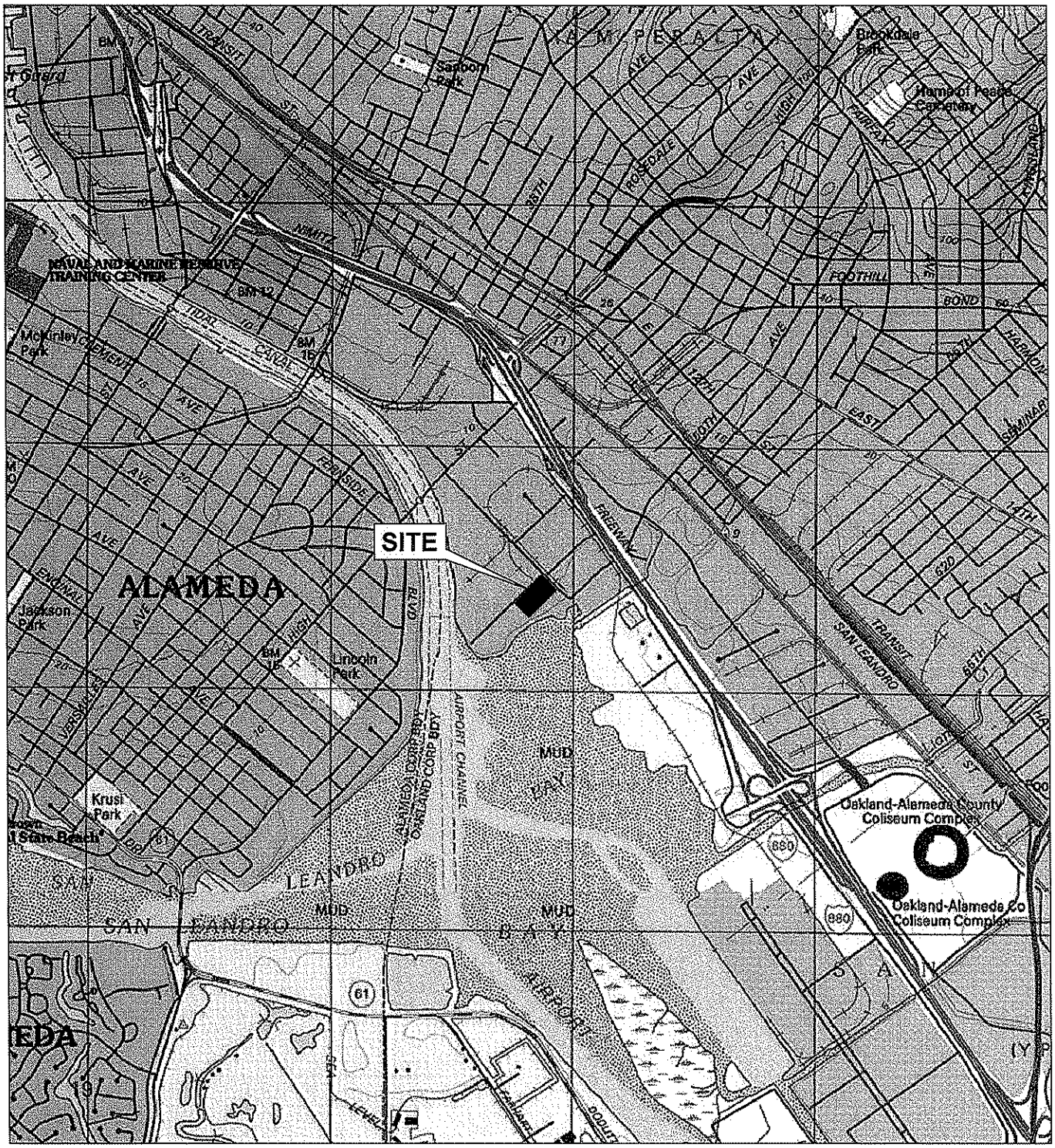


SOURCE: USGS Topographic Map

N

0 2000

Scale (feet)

ETIC ENGINEERING

SITE LOCATION AND TOPOGRAPHIC MAP
FORMER DISALVO TRUCKING
4919 TIDEWATER AVENUE
OAKLAND, CALIFORNIA

FIGURE: 1

FILENAME: TOP060707.DWG 07/20/06

TIDEWATER AVENUE

GATE

FENCE

MW-3

OB-6 OB-4

MW-2 OB-5

OB-3

EW-1

TRUCKING TERMINAL BUILDING

RECOVERY TRENCH

FORMER REMOTE HYDRANT FUEL DISPENSER LINE

APPROXIMATE LIMIT OF 1989 EXCAVATION & FORMER USTs

FENCE

MW-4

FORMER 280-GALLON WASTE OIL UST

?

FORMER FUEL LINES

FORMER 10,000-GALLON DIESEL UST

FORMER 5,000-GALLON DIESEL UST

TRUCK REPAIR SHOP

FORMER 550-GALLON DIESEL UST

MW-1

FENCE

FENCE

LEGEND

- Groundwater monitoring well
- Recovery well
- Extraction well
- Observation well

N

0 20 40

Scale (feet)

Source: Basemap from Applied Remedial Technologies, February 2007

ETIC ENGINEERING

SITE MAP
FORMER DISALVO TRUCKING
4919 TIDEWATER
OAKLAND, CALIFORNIA

FIGURE: 2

FILENAME: SAMPLE0807.DWG 08/17/07

TIDEWATER AVENUE

B-6
B-1
EB-11
B-10
C-1
SB-4
C-2
C-3
SB-3
EB-2
C-4
EB-3
SB-16
EB-1
GATE
FENCE
BH-4
BH-3
SB-2
BH-2
SB-12
C-5
SB-5
BH-21
C-6
MW-3
SB-1
SB-15
OB-6
OB-4
BH-5
B-5
BH-19
MW-2
OB-5
BH-20
OB-3
BH-17
BH-6
BH-16
B-3
EW-1
SB-10
B-7
BH-14
EB-5
TRUCKING TERMINAL BUILDING
C-7
BH-1
BH-13
BH-12
BH-15
C-11
SB-11
BH-22
RECOVERY TRENCH
SB-6
FORMER REMOTE HYDRANT FUEL DISPENSER LINE
FENCE
C-8
EB-4
APPROXIMATE LIMIT OF 1989 EXCAVATION & FORMER USTs
BH-9
C-10
SB-14
BH-8
BH-7
MW-4
BH-18
B-11
FORMER 280-GALLON WASTE OIL UST
B-14
C-9
DST-1A
B-2
?
EB-6
FORMER FUEL LINES
DS-2
DS-1
FORMER 10,000-GALLON DIESEL UST
DST-1B
DST-3
BH-10
SB-9
TRUCK REPAIR SHOP
FORMER 5,000-GALLON DIESEL UST
DS-6
DS-5
SB-13
DST-2
B-12
DS-3
DS-4
SB-7
BH-11
FORMER 550-GALLON DIESEL UST
B-9
B-4
B-15
EB-10
C-16
C-12
SB-8
MW-1
EB-7
EB-9
EB-8
B-8
C-13
B-13
C-14
C-15
FENCE

LEGEND

- Groundwater monitoring well
- Recovery well
- Extraction well
- Observation well
- Excavation sampling location (GET, 1989)
- Soil sampling location (GET, 1989)
- Soil and groundwater sampling location (Gentech, 1994)
- Soil and groundwater sampling location (PIERS, 2000)
- Soil and groundwater sampling location (ERAS, 2006)
- Soil and groundwater sampling location (ETIC, 2008)

N

0 20 40

Scale (feet)

Source: Basemap from Applied Remedial Technologies, February 2007

ETIC ENGINEERING

SITE MAP WITH HISTORICAL SAMPLING LOCATIONS
FORMER DISALVO TRUCKING
4919 TIDEWATER AVENUE
OAKLAND, CALIFORNIA

FIGURE: 3

FILENAME: SAMPLE0807.DWG 08/17/07

TIDEWATER AVENUE

B-6 • B-1 • B-10 • EB-11 ⊗ SB-4 ○ C-1 (<50) C-2 (<50) C-3 (78) SB-3 ○ EB-2 ⊗ 100 ? (<50) C-4 EB-3 ⊗ 1,000 SB-16 ○ EB-1 ⊗ ? FENCE GATE 10,000 BH-4 SB-2 BH-2 BH-3 ⊙ SB-12 ○ C-5 (74) SB-5 ○ BH-21 C-6 (26,000) MW-3 SB-1 ○ ? SB-15 ○ B-5 • OB-6 OB-4 BH-19 BH-5 MW-2 OB-5 BH-20 OB-3 EW-1 BH-17 BH-6 ⊙ BH-16 B-3 • SB-10 ○ ? B-7 • BH-14 ⊙ TRUCKING TERMINAL BUILDING (18,000) C-7 RECOVERY TRENCH 1,000 EB-5 ⊗ 100 BH-13 ⊙ BH-1 C-11 BH-12 BH-15 SB-11 ○ (76) BH-22 SB-6 ○ FENCE C-8 (640) EB-4 ⊗ APPROXIMATE LIMIT OF 1989 EXCAVATION & FORMER USTs FORMER REMOTE HYDRANT FUEL DISPENSER LINE BH-9 C-10 (11,000) SB-14 ○ MW-4 ⊕ BH-8 BH-7 ? FENCE BH-18 B-11 (LPH) C-9 DST-1A FORMER 280-GALLON WASTE OIL UST B-14 • ? EB-6 ⊗ FORMER FUEL LINES B-2 • DS-2 □ DS-1 □ FORMER 10,000-GALLON DIESEL UST BH-10 ⊙ SB-9 ○ DST-1B DST-3 TRUCK REPAIR SHOP FORMER 5,000-GALLON DIESEL UST DS-6 DS-5 □ SB-13 ○ DST-2 □ B-12 • DS-3 DS-4 □ SB-7 ○ BH-11 ⊙ FORMER 550-GALLON DIESEL UST B-9 • ? B-4 • 100 B-15 • EB-10 ⊗ C-16 (3,800) C-12 (86) SB-8 ○ MW-1 ⊕ EB-7 ⊗ EB-9 ⊗ EB-8 ⊗ B-8 • B-13 • C-13 (120) C-14 (190) C-15 (9,300) ? FENCE

LEGEND

- Groundwater monitoring well
- Recovery well
- Extraction well
- Observation well
- Excavation sampling location (GET, 1989)
- Soil sampling location (GET, 1989)
- Soil and groundwater sampling location (Gentech, 1994)
- Soil and groundwater sampling location (PIERS, 2000)
- Soil and groundwater sampling location (ERAS, 2006)
- Soil and groundwater sampling location (ETIC, 2008)

TPH-d Total Petroleum Hydrocarbons as diesel

(<50) TPH-d concentrations in micrograms per liter

TPH-d isoconcentration contour

LPH Liquid-phase hydrocarbons

N

0 20 40

Scale (feet)

Source: Basemap from Applied Remedial Technologies, February 2007

ETIC ENGINEERING

TPH-d ISOCONCENTRATION CONTOURS FOR SHALLOW GROUNDWATER
FORMER DISALVO TRUCKING
4919 TIDEWATER AVENUE
OAKLAND, CALIFORNIA

FIGURE: 4

FILENAME: SAMPLE1208.DWG 12/09/08

Tables

Table 1
Monitoring Well Construction Details
Former DiSalvo Trucking
4919 Tidewater Avenue
Oakland, California 94601

Monitoring Well	Date Installed	Top of Casing Elevation (feet msl)	Casing Material	Boring Depth (feet)	Well Depth (feet)	Boring Diameter (inches)	Casing Diameter (inches)	Slot Size (inches)	Screened Interval (feet)	Filter Pack Interval (feet)	Filter Pack Material
MW-1	4/8/1994	2.68	Sch. 40 PVC	8	8	NDA	2	0.020	3-8	2.5-8	#2/12 Sand
MW-2	4/8/1994	3.50	Sch. 40 PVC	8	8	NDA	2	0.02	3-8	2.5-8	#2/12 Sand
MW-3	4/8/1994	2.90	Sch. 40 PVC	8	8	NDA	2	0.020	3-8	2.5-8	#2/12 Sand
MW-4	7/19/1995	3.87	Sch. 40 PVC	8	8	NDA	2	0.020	3-8	2.5-8	#2/12 Sand
OB-3	4/7/2006	NDA	Sch. 40 PVC	8	8	8	2	0.020	2-7	1.5-7	#2/12 Sand
OB-4	4/7/2006	NDA	Sch. 40 PVC	NDA	10	8	2	0.020	2.5-10	2-10	#2/12 Sand
OB-5	4/7/2006	NDA	Sch. 40 PVC	NDA	15	NDA	2	0.020	10-15	8.5-15	#2/12 Sand
OB-6	4/7/2006	NDA	Sch. 40 PVC	NDA	7.5	8	2	0.020	2-6.5	1-6.5	#2/12 Sand
EW-1	4/14/2006	NDA	Sch. 40 PVC	11.5	11.5	36	12	0.032	NDA	NDA	#2/12 Sand-1/4" gravel mix

Notes:
Sch. 40 PVC = Schedule 40 polyvinyl chloride.
msl = Mean sea level.
NDA = No data available.

Table 2
Groundwater Elevation Data
Former DiSalvo Trucking
4919 Tidewater Avenue
Oakland, California 94601

Monitoring Well	Gauging Date	Top of Casing Elevation (feet msl)	Depth to Water (feet bgs)	Free Product Thickness (feet)	Groundwater Elevation (feet msl)
MW-1	4/14/1994	2.68	1.26	0.00	1.42
MW-1	11/17/1994	2.68	3.88	0.00	-1.20
MW-1	8/13/1995	2.68	3.09	0.00	-0.41
MW-1	8/23/1999	2.68	2.17	0.00	0.51
MW-1	5/26/1999	2.68	2.29	0.00	0.39
MW-1	4/26/2001	2.68	1.14	0.00	1.54
MW-1	9/5/2002	2.68	2.15	0.00	0.53
MW-1	8/18/2005	2.68	2.54	0.00	0.14
MW-1	8/19/2005	2.68	6.10	0.00	-3.42
MW-1	1/25/2006	2.68	2.02	0.00	0.66
MW-1	5/9/2006	2.68	0.30	0.00	2.38
MW-1	7/12/2006	2.68	1.81	0.00	0.87
MW-1	6/27/2007	2.68	1.82	0.00	0.86
MW-1	11/26/2007	2.68	3.80	0.00	-1.12
MW-1	6/9/2008	2.68	1.78	0.00	0.90
MW-1	12/11/2008	2.68	4.03	0.00	-1.35
MW-2	4/14/1994	3.50	1.92	0.00	1.58
MW-2	11/18/1994	3.50	1.78	0.00	1.72
MW-2	8/13/1995	3.50	2.95	0.00	0.55
MW-2	8/23/1999	3.50	2.89	0.00	0.61
MW-2	5/26/1999	3.50	2.96	0.00	0.54
MW-2	4/26/2001	3.50	1.74	0.00	1.76
MW-2	9/5/2002	3.50	3.06	0.00	0.44
MW-2	8/18/2005	3.50	2.62	0.00	0.88
MW-2	8/19/2005	3.50	2.62	0.00	0.88
MW-2	1/25/2006	3.50	1.27	0.00	2.23

Table 2
Groundwater Elevation Data
Former DiSalvo Trucking
4919 Tidewater Avenue
Oakland, California 94601

Monitoring Well	Gauging Date	Top of Casing Elevation (feet msl)	Depth to Water (feet bgs)	Free Product Thickness (feet)	Groundwater Elevation (feet msl)
MW-2	7/12/2006	3.50	2.42	0.00	1.08
MW-2	6/27/2007	3.50	2.46	0.00	1.04
MW-2	11/26/2007	3.50	2.74	0.00	0.76
MW-2	6/9/2008	3.50	2.63	0.00	0.87
MW-2	12/11/2008	3.50	3.21	0.00	0.29
MW-3	4/14/1994	2.90	1.33	0.00	1.57
MW-3	11/18/1994	2.90	1.23	0.00	1.67
MW-3	8/13/1995	2.90	2.18	0.00	0.72
MW-3	8/23/1999	2.90	2.18	0.00	0.72
MW-3	5/26/1999	2.90	2.50	0.00	0.40
MW-3	4/26/2001	2.90	1.29	0.00	1.61
MW-3	9/5/2002	2.90	2.34	0.00	0.56
MW-3	8/18/2005	2.90	2.08	0.04	0.85
MW-3	8/19/2005	2.90	2.10	0.03	0.82
MW-3	1/25/2006	2.90	0.97	0.00	1.93
MW-3	7/12/2006	2.90	1.82	0.00	1.08
MW-3	6/27/2007	2.90	1.90	0.00	1.00
MW-3	11/26/2007	2.90	2.18	0.00	0.72
MW-3	6/9/2008	2.90	2.13	0.02	0.77
MW-3	12/11/2008	2.90	2.53	0.00	0.37
MW-4	8/13/1995	3.87	3.33	0.00	0.54
MW-4	5/26/1999	3.87	3.31	0.00	0.56
MW-4	4/26/2001	3.87	1.69	0.00	2.18
MW-4	9/5/2002	3.87	3.31	0.00	0.56
MW-4	8/18/2005	3.87	3.37	0.00	0.50
MW-4	8/19/2005	3.87	3.46	0.00	0.41

Table 2
Groundwater Elevation Data
Former DiSalvo Trucking
4919 Tidewater Avenue
Oakland, California 94601

Monitoring Well	Gauging Date	Top of Casing Elevation (feet msl)	Depth to Water (feet bgs)	Free Product Thickness (feet)	Groundwater Elevation (feet msl)
MW-4	1/25/2006	3.87	2.50	0.00	1.37
MW-4	7/12/2006	3.87	3.09	0.00	0.78
MW-4	6/27/2007	3.87	3.26	0.00	0.61
MW-4	11/26/2007	3.87	3.58	0.00	0.29
MW-4	6/9/2008	3.87	3.41	0.00	0.46
MW-4	12/11/2008	3.87	3.98	0.00	-0.11

Notes:
msl = Mean sea level.
bgs = Below ground surface.

Table 3
Analytical Data for Soil Samples
TPH-d and BTEX
Former DiSalvo Trucking
4919 Tidewater Avenue
Oakland, California 94601

Sampling Location	Sample ID	Sampling Date	Depth (feet bgs)	TPH-d (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
C-1	C-1,2	9/24/2008	2.0	710	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-1	C-1,5	9/24/2008	5.0	1.5	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-1	C-1,10	9/24/2008	10.0	5.8	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-1	C-1,15	9/24/2008	15.0	5.2	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-1	C-1,20	9/24/2008	20.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-1	C-1,25	9/24/2008	25.0	1.9	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-1	C-1,30	9/24/2008	30.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-2	C-2,2	9/24/2008	2.0	51	< 0.0050	0.0082	< 0.0050	0.021
C-2	C-2,5	9/24/2008	5.0	1.4	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-2	C-2,10	9/24/2008	10.0	5.1	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-2	C-2, 15	9/24/2008	15.0	4.1	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-2	C-2, 20	9/24/2008	20.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-3	C-3,2	9/24/2008	2.0	170	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-3	C-3,5	9/24/2008	5.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-3	C-3,10	9/24/2008	10.0	4.1	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-3	C-3,15	9/24/2008	15.0	2.6	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-3	C-3,20	9/24/2008	20.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-4	C-4,2	9/24/2008	2.0	1.6	< 0.0050	< 0.0050	< 0.0050	< 0.0050

Table 3
Analytical Data for Soil Samples
TPH-d and BTEX
Former DiSalvo Trucking
4919 Tidewater Avenue
Oakland, California 94601

Sampling Location	Sample ID	Sampling Date	Depth (feet bgs)	TPH-d (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
C-4	C-4,5	9/24/2008	5.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-4	C-4,10	9/24/2008	10.0	5.5	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-4	C-4,15	9/24/2008	15.0	5.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-4	C-4,20	9/24/2008	20.0	7.2	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-5	C-5,2.5	9/25/2008	2.5	220	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-5	C-5,5	9/25/2008	5.0	190	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-5	C-5,10	9/25/2008	10.0	9.3	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-5	C-5,15	9/25/2008	15.0	4.3	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-5	C-5,20	9/25/2008	20.0	3.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-6	C-6,2	9/24/2008	2.0	74	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-6	C-6,5	9/24/2008	5.0	2,600	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-6	C-6,10	9/24/2008	10.0	8.8	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-6	C-6,15	9/24/2008	15.0	5.3	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-6	C-6,20	9/24/2008	20.0	7.4	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-7	C-7,2.5	9/24/2008	2.5	520	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-7	C-7,5	9/24/2008	5.0	3,500	< 0.0050	0.0061	< 0.0050	0.0070
C-7	C-7,10	9/24/2008	10.0	8.2	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-7	C-7,15	9/24/2008	15.0	8.9	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-7	C-7,19.5	9/24/2008	19.5	10	< 0.0050	< 0.0050	< 0.0050	< 0.0050

Table 3
Analytical Data for Soil Samples
TPH-d and BTEX
Former DiSalvo Trucking
4919 Tidewater Avenue
Oakland, California 94601

Sampling Location	Sample ID	Sampling Date	Depth (feet bgs)	TPH-d (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
C-7	C-7,25	9/24/2008	25.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-7	C-7,30	9/24/2008	30.0	4.7	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-8	C-8,2.5	9/25/2008	2.5	160	0.014	< 0.0050	0.015	0.066
C-8	C-8,5	9/25/2008	5.0	210	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-8	C-8,10	9/25/2008	10.0	8.3	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-8	C-8,15	9/25/2008	15.0	13	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-8	C-8,20	9/25/2008	20.0	8.8	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-9	C-9,5	9/25/2008	5.0	2,400	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-9	C-9,10	9/25/2008	10.0	310	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-9	C-9,15	9/25/2008	15.0	5.4	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-9	C-9,20	9/25/2008	20.0	9.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-10	C-10,2	9/24/2008	2.0	160	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-10	C-10,5	9/24/2008	5.0	23	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-10	C-10,10	9/24/2008	10.0	9.1	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-10	C-10,20	9/24/2008	20.0	7.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-11	C-11,5	9/24/2008	5.0	320	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-11	C-11,10	9/24/2008	10.0	9.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-11	C-11,20	9/24/2008	20.0	3.7	< 0.0050	< 0.0050	< 0.0050	< 0.0050

Table 3
Analytical Data for Soil Samples
TPH-d and BTEX
Former DiSalvo Trucking
4919 Tidewater Avenue
Oakland, California 94601

Sampling Location	Sample ID	Sampling Date	Depth (feet bgs)	TPH-d (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
C-12	C-12,2.5	9/25/2008	2.5	1,500	< 0.0050	< 0.0050	< 0.0050	0.0058
C-12	C-12,5	9/25/2008	5.0	14	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-12	C-12,10	9/25/2008	10.0	5.7	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-12	C-12,15	9/25/2008	15.0	6.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-12	C-12,20	9/25/2008	20.0	2.1	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-12	C-12,25	9/25/2008	25.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-12	C-12,30	9/25/2008	30.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-13	C-13,2.5	9/25/2008	2.5	370	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-13	C-13,5	9/25/2008	5.0	4.9	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-13	C-13,10	9/25/2008	10.0	4.7	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-13	C-13,15	9/25/2008	15.0	5.7	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-13	C-13,20	9/25/2008	20.0	4.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-14	C-14,2.5	9/25/2008	2.5	300	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-14	C-14,5	9/25/2008	5.0	6.2	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-14	C-14,10	9/25/2008	10.0	9.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-14	C-14,15	9/25/2008	15.0	10	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-14	C-14,20	9/25/2008	20.0	7.2	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-15	C-15,2	9/25/2008	2.0	46	< 0.0050	< 0.0050	< 0.0050	< 0.0050

Table 3
Analytical Data for Soil Samples
TPH-d and BTEX
Former DiSalvo Trucking
4919 Tidewater Avenue
Oakland, California 94601

Sampling Location	Sample ID	Sampling Date	Depth (feet bgs)	TPH-d (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
C-15	C-15,5	9/25/2008	5.0	380	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-15	C-15,10	9/25/2008	10.0	7.4	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-15	C-15,15	9/25/2008	15.0	5.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-15	C-15,20	9/25/2008	20.0	8.6	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-15	C-15,24	9/25/2008	24.0	1.3	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-16	C-16,2.5	9/25/2008	2.5	200	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-16	C-16,6.0	9/25/2008	6.0	3,100	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-16	C-16,12	9/25/2008	12.0	54	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-16	C-16,16	9/25/2008	16.0	11	< 0.0050	< 0.0050	< 0.0050	< 0.0050
C-16	C-16,20	9/25/2008	20.0	7.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050

Notes:

TPH-d = Total petroleum hydrocarbons quantified as diesel. Analyzed by EPA Method 8015M with silica gel cleanup.

<50 = Analyte not detected above the laboratory method reporting limit indicated.

mg/kg = milligrams per kilogram

bgs = Below ground surface.

Table 4
Analytical Data for Grab Groundwater Samples
TPH-d and BTEX
Former DiSalvo Trucking
4919 Tidewater Avenue
Oakland, California 94601

Sample Location	Sample ID	Sampling Date	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
C-1	C-1W,12	9/24/2008	< 50	< 0.50	< 0.50	< 0.50	< 0.50
C-1	C-1W,20	9/24/2008	< 50	< 0.50	< 0.50	< 0.50	< 0.50
C-2	C-2W,12	9/24/2008	< 50	< 0.50	< 0.50	< 0.50	< 0.50
C-3	C-3W,8	9/24/2008	78	< 0.50	< 0.50	< 0.50	< 0.50
C-4	C-4W,16	9/24/2008	< 50	< 0.50	< 0.50	< 0.50	< 0.50
C-5	C-5W,20	9/25/2008	74	< 0.50	< 0.50	< 0.50	< 0.50
C-6	C-6W,7	9/24/2008	26,000	< 0.50	< 0.50	< 0.50	< 0.50
C-7	C-7W,7	9/24/2008	18,000	< 0.50	< 0.50	< 0.50	< 0.50
C-7	C-7W,23	9/24/2008	< 80	< 0.50	< 0.50	< 0.50	< 0.50
C-8	C-8W,20	9/25/2008	640	< 0.50	< 0.50	< 0.50	< 0.50
C-10	C-10W,8	9/24/2008	11,000	< 0.50	< 0.50	< 0.50	< 0.50
C-11	C-11W,8	9/24/2008	76	< 0.50	< 0.50	< 0.50	< 0.50
C-12	C-12W,20	9/25/2008	86	< 0.50	< 0.50	< 0.50	< 0.50

Table 4
Analytical Data for Grab Groundwater Samples
TPH-d and BTEX
Former DiSalvo Trucking
4919 Tidewater Avenue
Oakland, California 94601

Sample Location	Sample ID	Sampling Date	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
C-13	C-13W,8	9/25/2008	120	< 0.50	< 0.50	< 0.50	< 0.50
C-14	C-14W,8	9/25/2008	190	< 0.50	< 0.50	< 0.50	< 0.50
C-15	C-15W,8	9/25/2008	9,300	< 0.50	< 0.50	< 0.50	< 0.50
C-15	C-15W,24	9/25/2008	130	< 0.50	< 0.50	< 0.50	< 0.50
C-16	C-16W,8	9/25/2008	3,800	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
TPH-d = Total petroleum hydrocarbons quantified as diesel. Analyzed by EPA Method 8015M with silica gel cleanup.
<50 = Analyte not detected above the laboratory method reporting limit indicated.
µg/L = Micrograms per liter.

Appendix A

Regulatory Correspondence

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

August 14, 2008

Mr. Bob Lawlor
RWL Investments, Inc.
4919 Tidewater Avenue, Unit B
Oakland, CA 94601-4914

Subject: Fuel Leak Case No. RO0000107 and Geotracker Global ID T0600100451, Di Salvo Trucking, 4919 Tidewater Avenue, Oakland, CA 94601

Dear Mr. Lawlor:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site, including the most recent document entitled, *"Revised Remedial Action Plan, Former Disalvo Trucking, 4919 Tidewater Avenue, Unit B, Oakland, California, 94601,"* (RAP) dated July 15, 2008 and prepared on your behalf by ETIC Engineering. The RAP presents the results of a geophysical survey, proposes sampling soil and groundwater in 16 soil borings, and proposes the installation, development, and sampling of one monitoring well.

The scope of work is conditionally approved and may be implemented provided that the technical comments below are addressed and incorporated during the proposed activities. Submittal of a revised Work Plan or Work Plan Addendum is not required unless an alternate scope of work outside that described in the Work Plan and technical comment below is proposed. We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

1. **Proposed Boring Locations.** The proposed boring locations are generally acceptable with the exception of proposed boring C-8. Boring C-8 is proposed along the northern property boundary to define the northern extent of the plume. However, proposed boring C-8 is less than 30 feet north of proposed boring C-9 and approximately 30 feet northwest of previous boring B-7. Therefore, proposed boring C-8 does not appear to be necessary at this time. Please see technical comment 2 regarding additional soil borings to assess discharge to surface water.

2. **Discharge to Surface Water.** Although three borings are proposed along the southern property boundary, the proposed borings will not directly evaluate whether groundwater contamination from the site discharges to surface water. Therefore, we request that you advance three soil borings along the shoreline area shown on Attachment 1. Soil and groundwater samples are to be collected according to the protocols proposed for the on-site soil borings. Please present the results in the Site Assessment Report requested below.

3. **Monitoring Well MW-1**. During recent groundwater sampling events, purging of one gallon of groundwater has resulted in dewatering of monitoring well MW-1. We request that monitoring well MW-1 be evaluated to assure that the well is providing representative groundwater samples. Please present recommendations to evaluate the well in the Site Assessment Report requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **January 13, 2009** – Site Assessment Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Attachment 1: Shoreline Area Sampling Locations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032

Maura Dougherty, ETIC Engineering, 2285 Morello Avenue, Pleasant Hill, CA 94523

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**ISSUE DATE:** July 5, 2005
	REVISION DATE: December 16, 2005
	PREVIOUS REVISIONS: October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

Submission Instructions

1) Obtain User Name and Password:
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to dehloptoxic@acgov.org
      or
      ii) Send a fax on company letterhead to (510) 337-9335, to the attention of Alicia Lam-Finneke.
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses,** and the **Case Numbers (RO# available in Geotracker) you will be posting for.**

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape and Firefox browsers will not open the FTP site.
   b) Click on File, then on Login As.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name at acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload.** (e.g., Subject: RO1234 Report Upload)

Attachment 1: Shoreline Area Sampling Locations

Maura Dougherty - RE: 4919 Tidewater Avenue, Oakland, California

From: "Wickham, Jerry, Env. Health" <jerry.wickham@acgov.org>
To: 'Maura Dougherty' <mdougherty@eticeng.com>
Date: 9/16/2008 5:54 PM
Subject: RE: 4919 Tidewater Avenue, Oakland, California

Maura,

Your proposal to conduct the sampling in a phased approach is acceptable.

Regards,

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510-567-6791
jerry.wickham@acgov.org

From: Maura Dougherty [mailto:mdougherty@eticeng.com]
Sent: Tuesday, September 16, 2008 4:52 PM
To: Wickham, Jerry, Env. Health
Subject: 4919 Tidewater Avenue, Oakland, California

Jerry,

This is to follow up on our phone conversation earlier today regarding the former DiSalvo Trucking site located at 4919 Tidewater Avenue in Oakland, California. Per your letter dated August 14, 2008, we have removed boring C-8 located along the northern fence line of the Site from our scope of work. Per our phone conversation today, we have added an additional location along the southern fence line between C-11 and C-15. This location will aid in determining the conditions of groundwater and soil at the property boundary. A map reflecting these changes has been attached to this email.

As we discussed, we will do this work in a phased approach and first complete the onsite sampling. If the analytical results show TPHd impacted groundwater in these boundary samples, then we will discuss offsite impacts. If the samples collected at these locations do not show TPHd impact, then we will conclude that impacted groundwater is not flowing offsite and we will not perform the shoreline sampling described in your August 14, 2008 letter.

We have scheduled the soil and groundwater sampling field work for September 24 through 26. If you have any questions please do not hesitate to contact me.

Regards,
Maura

Maura Dougherty, P.E.
ETIC Engineering
2285 Morello Avenue
Pleasant Hill, CA 94523

(925) 602-4710 x41

Maura Dougherty - RE: 4919 Tidewater Avenue, Oakland, CA

From: "Wickham, Jerry, Env. Health" <jerry.wickham@acgov.org>
To: 'Maura Dougherty' <mdougherty@eticeng.com>
Date: 11/4/2008 8:11 AM
Subject: RE: 4919 Tidewater Avenue, Oakland, CA

Maura,

As we discussed on October 29, 2008, I concur with the proposal to eliminate the installation of one upgradient well based on soil and groundwater sampling results from the northern corner of the site.

Regards,

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510-567-6791
jerry.wickham@acgov.org

From: Maura Dougherty [mailto:mdougherty@eticeng.com]
Sent: Monday, November 03, 2008 11:57 AM
To: Wickham, Jerry, Env. Health
Subject: 4919 Tidewater Avenue, Oakland, CA

Jerry,

This is to follow up on our phone conversation on October 29, 2008 regarding the former DiSalvo Trucking site located at 4919 Tidewater Avenue in Oakland, California. In our July 15, 2008 Revised Remedial Action Plan we had proposed to install one upgradient well on the property to further delineate the lateral extent of groundwater contamination at the Site. However, our soil and groundwater investigation confirmed that the petroleum hydrocarbon contamination in groundwater does not extend to the northern corner of the Site. As a result we are requesting to eliminate the well installation from our scope of work and instead proceed directly with the preparation of our Site Assessment Report.

If you have any questions or need any additional information please do not hesitate to contact me at 925-602-4710 x41.

Regards,
Maura

Maura Dougherty, P.E.
ETIC Engineering
2285 Morello Avenue
Pleasant Hill, CA 94523

(925) 602-4710 x41

Deborah Hensley - RE: 4919 Tidewater Avenue, Oakland, California

From: "Wickham, Jerry, Env. Health" <jerry.wickham@acgov.org>
To: 'Maura Dougherty' <mdougherty@eticeng.com>
Date: 1/13/2009 5:01 PM
Subject: RE: 4919 Tidewater Avenue, Oakland, California
CC: Deborah Hensley <DHensley@eticeng.com>

Maura,

Submittal of the referenced report on January 19, 2009 is acceptable.

Regards,

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510-567-6791
jerry.wickham@acgov.org

From: Maura Dougherty [mailto:mdougherty@eticeng.com]
Sent: Tuesday, January 13, 2009 4:55 PM
To: Wickham, Jerry, Env. Health
Cc: Deborah Hensley
Subject: 4919 Tidewater Avenue, Oakland, California

Jerry,

This is a follow-up to our phone conversation this afternoon regarding the former DiSalvo Trucking Facility site located at 4919 Tidewater Avenue in Oakland, California. As we discussed, we will submit the Site Assessment Report on Monday, January 19, 2009. If you have any questions or need any additional information please do not hesitate to contact me.

Thank you for your help.

Regards,
Maura

Maura Dougherty, P.E.
ETIC Engineering
2285 Morello Avenue
Pleasant Hill, CA 94523

(925) 602-4710 x41

Thomas Neely - RE: Former DiSalvo Trucking, 4919 Tidwater Ave., RO#0000107

From: "Wickham, Jerry, Env. Health" <jerry.wickham@acgov.org>
To: 'Thomas Neely' <tneely@eticeng.com>
Date: 1/20/2009 7:55 AM
Subject: RE: Former DiSalvo Trucking, 4919 Tidwater Ave., RO#0000107

Mr. Neely,

Based upon your request, the schedule for report submittal is extended to January 26, 2009.

Regards,

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510-567-6791
jerry.wickham@acgov.org

From: Thomas Neely [mailto:tneely@eticeng.com]
Sent: Monday, January 19, 2009 3:04 PM
To: Wickham, Jerry, Env. Health
Subject: Former DiSalvo Trucking, 4919 Tidwater Ave., RO#0000107

Mr. Wickham,

On behalf of Maura Dougherty, I am submitting this request for extension of the due date for submittal of the Site Assessment Report for the former DiSalvo Trucking site located at 4919 Tidewater Avenue in Oakland, California (RO #0000107). Maura has needed to attend to a family emergency, and is currently out of the area. As a primary author of the document, we are sending the signature page to Maura and should have it returned signed and stamped in a few days.

Can you extend the deadline for submittal of the report to Monday, January 26, 2009?

Thank you for your help,

Tom Neely

Thomas Neely, PG, CHG, REA II
ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523
(925) 602-4710 ext. 17
tneely@eticeng.com

Appendix B

Drilling Permit

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 09/16/2008 By jamesy

Permit Numbers: W2008-0667
Permits Valid from 09/24/2008 to 09/26/2008

Application Id: 1220552215879
City of Project Site: Oakland
Site Location: 4919 Tidewater Ave.
Oakland, Ca 94601
Project Start Date: 09/24/2008
Completion Date: 09/26/2008
Requested Inspection: 09/24/2008
Scheduled Inspection: 09/24/2008 at 1:30 PM (Contact your inspector, Ron Smalley at (510) 670-5407, to confirm.)

Applicant: ETIC Engineering, Inc. - Nathan Diem
2285 Morello Ave., Pleasant Hill, CA 95423
Phone: 925-602-4710 x45

Property Owner: R.W.L. Investments, Inc.
4919 Tidewater Ave. Unit B, Oakland, CA 94601
Phone: --

Client: ** same as Property Owner **

Contact: Maura Dougherty
Phone: 925-602-4710 x41
Cell: --

Total Due: $230.00
Receipt Number: WR2008-0325 **Total Amount Paid:** $230.00
Payer Name : ETIC Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 15 Boreholes
Driller: Environmental Control Associates, Inc. - Lic #: 695970 - Method: DP **Work Total: $230.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2008-0667	09/16/2008	12/23/2008	15	2.00 in.	30.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

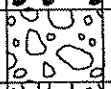
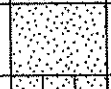
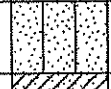
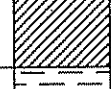
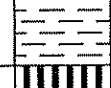
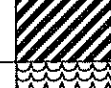
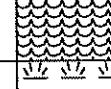
5. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits

required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

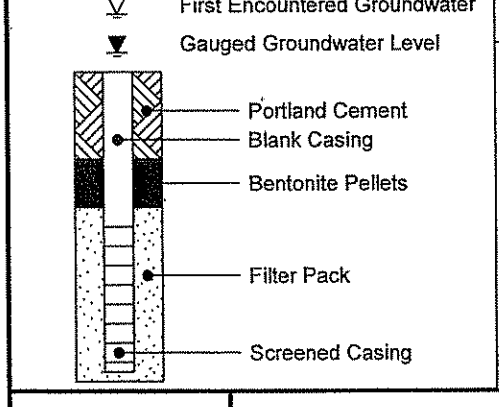
6. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

Appendix C

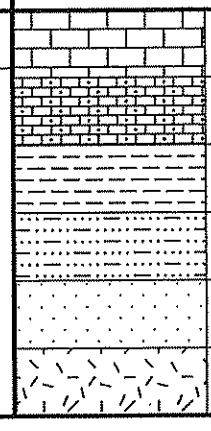
Boring Logs

MAJOR DIVISIONS			TYPICAL NAMES		
COARSE-GRAINED SOILS More than half is coarser than No. 200 sieve	GRAVELS more than half coarse fraction is larger than No. 4 sieve size	Clean gravels with little or no fines	GW		Well graded gravels with or without sand, little or no fines.
			GP		Poorly graded gravels with or without sand, little or no fines.
		Gravels with over 12% fines	GM		Silty gravels, silty gravels with sand.
			GC		Clayey gravels, clayey gravels with sand.
	SANDS more than half coarse fraction is smaller than No. 4 sieve size	Clean sands with little or no fines	SW		Well graded sands with or without gravel, little or no fines.
			SP		Poorly graded sands with or without gravels, little or no fines.
		Sands with over 12% fines	SM		Silty sands with or without gravel.
			SC		Clayey sands with or without gravel.
FINE-GRAINED SOILS More than half is finer than No. 200 sieve	SILTS AND CLAYS liquid limit 50% or less		ML		Inorganic silts and very fine sands, rock flour, silts with sands and gravels.
			CL		Inorganic clays of low to medium plasticity, clays with sands and gravels, lean clays.
			OL		Organic silts or clays of low plasticity.
	SILTS AND CLAYS liquid limit greater than 50%		MH		Inorganic silts, micaceous or diatomaceous, fine sandy or silty soils, elastic silts.
			CH		Inorganic clays of high plasticity, fat clays
			OH		Organic clays or clays of medium to high plasticity.
HIGHLY ORGANIC SOILS			PT		Peat and other highly organic soils.

SYMBOLS



DRILL LOG ROCK TYPES



ETIC ENGINEERING

UNIFIED SOIL CLASSIFICATION SYSTEM DESCRIPTIONS AND SYMBOLS USED ON ETIC DRILL LOGS

ETIC ENGINEERING

LOG OF SOIL BORING: **C-1**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: ECA
LICENSE NUMBER: 695970

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

DRILLING AND SAMPLING METHODS: Hand cleared to 2 feet bgs with hand auger. Drilled and sampled with Geoprobe 6600 utilizing direct-push technology and driving 1.25-inch diameter dual-tube soil sampling system.

				START	FINISH
WATER LEVEL	▽ 11.5				
TIME	1648			TIME 0915	TIME 1700
DATE	9/24/08				
REFERENCE	GS			DATE 9/24/08	DATE 9/24/08

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: M. Garcia

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	
				0	AC/AB CONCRETE	Asphalt to 4 inches bgs. Concrete from 4 inches to 1 foot bgs.
				1		Hand cleared to 2 feet bgs with hand auger, no recovery.
24	24		0.1	2	SP	**SAND** - olive grey (5Y 4/2), poorly-graded, fine sand, loose, dry.
				3	CL	**CLAY** - bluish black (5B 2.5/1), stiff, low plasticity, moist.
48	48			4		
			0.0	5		- slight petroleum hydrocarbon odor.
				6		- color change to black, moist.
				7		
				8		- some organic material.
48	48			9		
			0.0	10		Groundwater sample collected at 1648 by peristaltic pump and temporary PVC casing screened between 10 and 12 feet bgs.
				11		
48				12		
	36			13		- with some silt, moist to wet.
				14		
			0.0	15	CL	**SANDY CLAY** - bluish black (5B 2.5/1), soft, low plasticity, fine grained sand, moist to wet.
48	48			16		**SILTY CLAY** - greenish grey (GLEY1 5G), firm, slightly moist.
				17		- color change to greenish grey (GLEY1 10GY).
				18	CL	- mottled with iron staining.
				19		Groundwater sample collected at 1000 by hydropunch of new boring near original boring, with peristaltic pump, and temporary PVC casing screened between 18 and 20 feet bgs.
			0.0	20		- color change to (5Y 5/6), with some fine grained sand, with little subangular gravel 0.25 inches in diameter, wet.
36	36			21	CL	**SILTY CLAY** - light olive brown (2.5Y 5/4), firm, slightly moist.

AIR SAMPLE | WATER SAMPLE | SOIL SAMPLE | RECOVERED

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

LOG OF SOIL BORING: C-1

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	
				22			X		CL	**SAND** - light olive brown (2.5Y 5/6), poorly-graded, medium grained sand, loose, wet.
				23					SP	
36	36			24					SW	**SAND** - olive (5Y 5/6), well-graded, fine to coarse grained sand, with little subrounded to subangular gravel 0.25 to 0.5 inches in diameter, very loose, saturated.
			0.0	25			X		CL	**SILTY CLAY** - light olive brown (2.5Y 5/6), very stiff, low plasticity, slightly moist.
24	24			26					CL	**CLAY** - light olive brown (2.5Y 5/4), firm, low plasticity, moist.
				27						
24	24			28						- wet. - moist.
				29						- soft.
			0.0	30			X			Boring terminated at 30 feet bgs. Boring filled and sealed with neat cement at 1650.
				31						
				32						
				33						
				34						
				35						
				36						
				37						
				38						
				39						
				40						
				41						
				42						
				43						
				44						
				45						
				46						
				47						

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

LOG OF SOIL BORING: **C-2**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: ECA
LICENSE NUMBER: 695970

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

DRILLING AND SAMPLING METHODS: Hand cleared to 2 feet bgs with hand auger. Drilled and sampled with Geoprobe 6600 utilizing direct-push technology and driving 1.25-inch diameter dual-tube soil sampling system.

				START	FINISH
WATER LEVEL	▽ 12.0				
TIME	1100			TIME 1035	TIME 1115
DATE	9/24/08			DATE 9/24/08	DATE 9/24/08
REFERENCE	GS				

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: N. Diem

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	Description
				0	AC/AB	Asphalt to 3 inches bgs.
				1		Hand cleared to 2 feet bgs with hand auger, no recovery.
24	24		0.0	2	SW	**SAND** - dark gray (10YR 3/1), fine to medium grained, some gravel 0.25 to 0.5-inch in diamter, loose, moist.
				3	CL	**CLAY** - very dark gray (10YR3/1), hard, medium plasticity, some fine grained sand, moist.
48	48			4		
			0.0	5	SW	**SAND** - dark gray (10YR 3/1), well-graded, some gravel, loose, moist.
				6		
				7	SP	**SAND** - dark reddish brown (5YR 3/4), well-sorted, some gravel and clay, loose, moist.
48	48			8		**CLAY** - very dark gray (10YR 3/1), hard, high plasticity, moist.
				9		
			0.0	10	CL	Groundwater sample collected at 1100 by peristaltic pump and temporary PVC casing screened between 10 and 12 feet bgs.
				11		
48	48			12 ▽	GW	**SANDY GRAVEL** - very dark gray (10YR 3/1), 0.25 to 0.50-inch diameter gravel, medium to coarse grained sand, well-graded, moist.
				13		**CLAY** - very dark gray (10YR 3/1), hard, medium plasticity, moist.
				14		
			0.0	15		
48	48			16	CL	- black (10YR 2/1), medium plasticity, little sand, wet.
				17		
				18		
				19		- grayish green (GLEY1 4/2), high plasticity, slightly moist.
			0.0	20		Boring terminated at 20 feet bgs. Boring filled and sealed with neat cement at 1100.
				21		

AIR SAMPLE | WATER SAMPLE | SOIL SAMPLE RECOVERED

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

LOG OF SOIL BORING: **C-3**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: ECA
LICENSE NUMBER: 695970

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

DRILLING AND SAMPLING METHODS: Hand cleared to 2 feet bgs with hand auger. Drilled and sampled with Geoprobe 5410 utilizing direct-push technology and driving 1.25-inch diameter dual-tube soil sampling system.

				START	FINISH
WATER LEVEL ▽	7.7				
TIME	1000			TIME 0925	TIME 1055
DATE	9/24/08			DATE 9/24/08	DATE 9/24/08
REFERENCE	GS				

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: N. Diem

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	
				0				AC/AB	Asphalt to 3 inches bgs.
				1					Hand cleared to 2 feet bgs with hand auger, no recovery.
24	24		0.0	2				ML	**SANDY SILT WITH BLACK SILT**- dark reddish brown (5YR 3/4), dry, little gravel 0.25-inch in diameter.
				3					- color change to black (5YR 2.5/1).
48	48			4				SP	**SAND** - gray to black, coarse grained, little gravel 0.25-inch in diameter, dry.
			0.0	5				SW	**SAND** - gray (10YR 4/1), fine to coarse grained, loose, well-graded, moist.
				6					Groundwater sample collected at 1000 by peristaltic pump and temporary PVC casing screened between 6 and 8 feet bgs.
				7					
				8					
48	48			9				ML	**CLAYEY SILT** - gray (10YR 4/1), soft, moist, little sand.
				10				CL	**CLAY** - very dark grayish brown (10YR 3/2), low plasticity, moist, plant material.
			0.0	11					
				12				CL	**CLAY** - very dark gray ?(10YR 3/1), medium plasticity, moist, sea shells.
48	48			13				SP	**SAND** - gray (10YR 4/1), fine grained, poorly graded, loose, wet.
				14					
			0.0	15				CL	**CLAY** - gray (10YR 4/1), low plasticity, wet, some sand.
48	48			16				SP	**SAND** - dark gray (10YR 4/1), fine grained, poorly graded, loose, moist.
				17				CL	**CLAY** - black (10YR 2/1), low plasticity, moist, few sea shells.
				18					**CLAY** - grayish green (GLEY1 4/2), medium plasticity, slightly moist.
				19				CL	
			0.0	20					Boring terminated at 20 feet bgs. Boring filled and sealed with neat cement at 1015.
				21					

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

LOG OF SOIL BORING: **C-4**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: ECA
LICENSE NUMBER: 695970

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

DRILLING AND SAMPLING METHODS: Hand cleared to 2 feet bgs with hand auger. Drilled and sampled with Geoprobe 5410 utilizing direct-push technology and driving 1.25-inch diameter dual-tube soil sampling system.

				START	FINISH
WATER LEVEL ▽	10.8				
TIME	1217			TIME 1140	TIME 1300
DATE	9/24/08			DATE 9/24/08	DATE 9/24/08
REFERENCE	GS				

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: M. Garcia

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	DESCRIPTION
				0				AC/AB	Asphalt to 4 inches bgs.
				1					Hand cleared to 2 feet bgs with hand auger, no recovery.
24	24		0.0	2				CL	**CLAY** - dark greenish gray (GLEY1 10GY 4/1), firm, low plasticity, slightly moist.
				3				FILL	**GRAVEL** - multicolor, subangular gravel 0.25 to 0.5 inches in diameter, with some broken concrete, dry.
48	48			4				SW	4' - **SAND** - dark greenish gray (GLEY1 10Y 4/1), very loose, well-graded fine to medium grained sand, with some little subangular gravel 0.25 inches in diameter, dry.
			0.0	5					4.5' - **CLAY** - greenish black (GLEY1 10Y 2.5/1), very soft, low plasticity, moist.
				6					
				7					
48	48			8					
				9					
			0.0 ▽	10					
				11					11' - 11.5' - little organic material, wet to moist.
48				12				CL	
	42			13					- wet.
				14					Groundwater sample collected at 1217 by peristaltic pump and temporary PVC casing screened between 12 and 16 feet bgs.
			0.0	15					
48				16					**SANDY CLAY** - greenish black (GLEY1 10Y 2.5/1), soft, low plasticity, moist.
	30			17					
				18					
				19					
			0.0	20					Boring terminated at 20 feet bgs. Boring filled and sealed with neat cement at 1230.
				21					

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

LOG OF SOIL BORING: **C-5**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: ECA
LICENSE NUMBER: 695970

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

DRILLING AND SAMPLING METHODS: Hand cleared to 2.5 feet bgs with hand auger. Drilled and sampled with Geoprobe 5410 utilizing direct-push technology and driving 1.25-inch diameter dual-tube soil sampling system.

				START	FINISH
WATER LEVEL ▽	19.7				
TIME	1800			TIME 1410	TIME 1830
DATE	9/25/08			DATE 9/25/08	DATE 9/25/08
REFERENCE	GS				

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: N. Diem

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	
				0					AC/AB	Asphalt to 2 inches bgs.
				1						Hand cleared to 2.5 feet bgs with hand auger, no recovery.
				2						
18	18			3					GW	**GRAVEL WITH SAND AND SILT MATRIX** - black/brown matrix, angular to subangular gravel from 0.25 to 1 inches in diameter, loose, dry.
48	48			4					CL	**CLAY** - very dark greenish gray (GLEY1 3/1), stiff, slightly moist.
			0.0	5						**SANDY CLAY** - greenish black (GLEY1 2.5/1), stiff, slightly moist.
				6						- moist, very faint odor.
				7						
48	48			8						-color change to very dark gray (GLEY1 3), no odor.
				9						
			0.0	10					CL	- plant material.
				11						
48	48			12						
				13						
				14						
			0.0	15					CL	**SANDY CLAY** - very dark gray (GLEY1 3), soft, moist, small shell fragments.
48	48			16						**SILTY CLAY** - very dark gray (GLEY1 3), low plasticity, soft, moist.
				17						
				18					CL	
				19						Groundwater sample collected at 1800 by peristaltic pump and temporary PVC casing screened between 18 and 20 feet bgs.
			0.0	20 ▽						Boring terminated at 20 feet bgs. Boring filled and sealed with neat cement at 1815.
				21						

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

LOG OF SOIL BORING: **C-6**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: ECA
LICENSE NUMBER: 695970

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

DRILLING AND SAMPLING METHODS: Hand cleared to 2 feet bgs with hand auger. Drilled and sampled with Geoprobe 6600 utilizing direct-push technology and driving 1.25-inch diameter dual-tube soil sampling system..

				START	FINISH
WATER LEVEL ▽	3.8				
TIME	1259			TIME 1140	TIME 1320
DATE	9/24/08				
REFERENCE	GS			DATE 9/24/08	DATE 9/24/08

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: M. Garcia

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	
				0	AC/AB	Asphalt to 3 inches bgs.
				1		Hand cleared to 2 feet bgs with hand auger, no recovery.
24	24		0.0	2	ML	**SANDY SILT** - black, fine grained sand, with some subangular gravels 0.25 to 0.5 inches in diameter, firm, dry, slight petroleum hydrocarbon odor.
				3		
48	48			4	SW	**SAND** - very dark greenish gray (GLEY1 10Y 3/1), well-graded, fine to coarse grained sand, loose, moist, slight petroleum hydrocarbon odor.
			13.2	5		Groundwater sample collected at 1259 by peristaltic pump and temporary PVC casing screened between 4 and 7 feet bgs.
				6		6' - 7' - wet.
				7		
48	48			8	CL	**CLAY** - black, very soft, low plasticity, with little roots from 8 to 9 feet bgs, moist.
				9		
			0.0	10		
				11		
48				12		
	36			13	CL	**SANDY CLAY** - black, soft, low plasticity, fine grained sand, moist to wet, moderate petroleum hydocarbon odor.
				14		
			1.5	15		
48				16		- moist, slight petroleum hydrocarbon odor.
	36			17		
				18		- wet.
				19	SM	**SILTY SAND** - very dark greenish gray (GLEy1 10Y 3/1), fine grained sand, loose, wet.
			0.0	20		Boring terminated at 20 feet bgs. Boring filled and sealed with neat cement at 1300.
				21		

AIR SAMPLE | WATER SAMPLE | SOIL SAMPLE | RECOVERED

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

LOG OF SOIL BORING: **C-7**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: ECA
LICENSE NUMBER: 695970

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

DRILLING AND SAMPLING METHODS: Hand cleared to 2 feet bgs with hand auger. Drilled and sampled with Geoprobe 6600 utilizing direct-push technology and driving 1.25-inch diameter dual-tube soil sampling system.

				START	FINISH
WATER LEVEL	▽ 5.2	▼ 20			
TIME	1438	1500		TIME 1410	TIME 1540
DATE	9/24/08	9/24/08		DATE 9/24/08	DATE 9/24/08
REFERENCE	GS				

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: M. Garcia

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION
				0		Asphalt to 2 inches bgs.
				1		Hand cleared to 2 feet bgs with hand auger, no recovery.
24	24		0.0	2	ML	**CLAYEY SILT** - dark greenish gray (GLEY1 10GY 3/1), firm, dry, slight petroleum hydrocarbon odor.
				3		**SAND** - dark greenish gray (GLEY1 10Y 4/1), well-graded, fine to coarse grained sand, with subangular gravels 0.25 inches in diameter, loose, moist, petroleum hydrocarbon odor.
48	48			4		
			3.7	5 ▽	SW	Groundwater sample collected at 1438 by peristaltic pump and temporary PVC casing screened between 5 and 7 feet bgs.
				6		
				7		
48	48			8		**CLAY** - very dark greenish gray (GLEY1 10Y 3/1), very soft, low plasticity, very moist, moderate petroleum hydrocarbon odor.
				9		
			0.7	10		
				11		
48				12		- slight petroleum hydrocarbon odor.
	36			13		**SANDY CLAY** - very dark greenish gray (GLEY1 10Y 3/1), low plasticity, very fine grained sand, moist, slight petroleum hydrocarbon odor.
				14	CL	
			0.0	15		
48				16		
	36			17		17' - 20' - dry to moist, no odor to slight petroleum hydrocarbon odor.
				18		
				19		
			0.6	20 ▼		
48	48			21	SM	**SILTY SAND** - very dark greenish gray (GLEY1 5GY 3/1), fine grained sand, loose, very wet.

AIR SAMPLE | WATER SAMPLE | SOIL SAMPLE | RECOVERED

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

LOG OF SOIL BORING: C-7

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
				22					SM
				23					
				24					ML
48	48								ML
				25					SW
			0.0						
				26					ML
				27					
				28					
24	24								
				29					ML
			0.3	30					
				31					
				32					
				33					
				34					
				35					
				36					
				37					
				38					
				39					
				40					
				41					
				42					
				43					
				44					
				45					
				46					
				47					

Groundwater sample collected at 1500 by hydropunch of new boring near original boring, with peristaltic pump, and temporary PVC casing screened between 20 and 23 feet bgs.

- with some sea shells.

23.5' - **CLAYEY SILT** - olive (5Y 5/4), stiff, dry.

24' - **SANDY SILT** - olive (5Y 5/4), firm, fine grained sand, dry.

24.25' - **SAND** - olive (5Y 5/4), well-graded, fine to coarse grained sand, very loose, saturated.

25' - **SANDY SILT** - light olive brown (2.5Y 5/4), stiff, fine grained sand, dry to moist.

CLAYEY SILT - light olive brown (2.5Y 5/4), stiff to very stiff, moist.

- wet.

Boring terminated at 30 feet bgs. Boring filled and sealed with neat cement at 1515.

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

LOG OF SOIL BORING: **C-8**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: ECA
LICENSE NUMBER: 695970

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

DRILLING AND SAMPLING METHODS: Hand cleared to 2.5 feet bgs with hand auger. Drilled and sampled with Geoprobe 5410 utilizing direct-push technology and driving 1.25-inch diameter dual-tube soil sampling system.

				START	FINISH
WATER LEVEL	▽ 15.5				
TIME	1450			TIME 1300	TIME 1515
DATE	9/25/08			DATE 9/25/08	DATE 9/25/08
REFERENCE	GS				

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: N. Diem

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	
				0	AC/AB	Asphalt to 3 inches bgs.
				1		Hand cleared to 2.5 feet bgs with hand auger, no recovery.
				2		
18	18		0.0	3	ML	**SILT** - black (10YR 2/1), some gravel, subangular 0.25 to 0.5 inches in diameter, soft, dry, strong petroleum hydrocarbon odor.
				4	CL	**SILTY CLAY** - very dark gray (10YR 3/1), soft, slightly moist, strong petroleum hydrocarbon odor.
48	48				SM	**SILTY SAND** - dark greenish gray (GLEY1 4/1), fine grained, loose, moist, strong petroleum hydrocarbon odor.
				5	CL	**SANDY CLAY** - greenish gray (GLEY1 5/1), soft, low plasticity, moist, strong petroleum hydrocarbon odor.
			0.0		ML	**CLAY** - greenish black (GLEY1 2.5/1), low plasticity, soft, moist, petroleum hydrocarbon odor.
				6		**SANDY CLAYEY SILT** - very dark gray (GLEY1 3/1), soft, moist, petroleum hydrocarbon odor.
				7		**CLAY** - black (GLEY1 2.5/1), stiff, low plasticity, moist, faint petroleum hydrocarbon odor.
				8		
48	48					- color change to dark greenish gray (GLEY1 3/1).
				9	CL	
				10		
			0.0			
				11		
				12		- color change to dark grayish brown (10YR 3/2), plant material.
48	48					- color change to very dark gray (GLEY1 3/1), loose, wet.
				13		**SANDY CLAY** - very dark greenish gray (GLEY1 3/1), soft, low plasticity, very wet.
				14	CL	
				15		
			0.0 ▽		ML	**SANDY SILT** - very dark greenish gray (GLEY1 3/1), soft, moist to wet.
				16		**SANDY CLAY** - very dark gray (GLEY1 3/1), stiff, low plasticity, wet.
48	48					
				17		Groundwater sample collected at 1450 by peristaltic pump and temporary PVC casing screened between 16 and 20 feet bgs.
				18	CL	- moist.
				19		
			0.0	20		Boring terminated at 20 feet bgs. Boring filled and sealed with neat cement at 1500.
				21		

AIR SAMPLE | WATER SAMPLE | SOIL SAMPLE | RECOVERED

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

LOG OF SOIL BORING: **C-9**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: ECA
LICENSE NUMBER: 695970

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

DRILLING AND SAMPLING METHODS: Hand cleared to 4 feet bgs with hand auger. Drilled and sampled with Geoprobe 54100 utilizing direct-push technology and driving 1.25-inch diameter dual-tube soil sampling system.

				START	FINISH
WATER LEVEL	▽ 2.4				
TIME	0800			TIME 0730	TIME 0855
DATE	9/25/08				
REFERENCE	GS			DATE 9/24/08	DATE 9/24/08

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: N. Diem

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	
				0				AC/AB	Asphalt to 2 inches bgs.
				1					Hand cleared to 2 feet bgs with hand auger. Attempted to sample but no recovery. Hand cleared to 4 feet bgs.
				2 ▽					
				3					
48	48			4				ML / SM	**SANDY SILT** - very dark grayish brown (10YR 3/2), little subangular gravels 0.25 inches in diameter, soft, moist, strong petroleum hydrocarbon odor.
			0.0	5				CL	4.5' - **SILTY SAND** - dark gray (10YR 4/1), well-graded, with little subangular gravels 0.25 inches in diameter, loose, moist, strong petroleum hydrocarbon odor. 5' - **SANDY CLAY** - very dark gray (GLEY1 3/1), fine grained sand, firm, visible product present.
				6					
				7				GW / ML	**GRAVEL WITH FINE GRAINED SAND** - subangular to subrounded 0.25" to 0.75" in diameter, poorly sorted, visible product present. 7' - **SANDY SILT** - dark gray (10YR 4/1), half organic material, soft, moist, strong petroleum hydrocarbon odor, visible product in soil and groundwater samples.
48	48			8				SM	**SILTY SAND** - dark greenish gray (GLEY1 4/1), round to subangular gravels from 0.25 to 0.5 inches in diameter, loose, wet, strong petroleum hydrocarbon odor.
			0.0	9				CL	8.5' - **CLAY** - very dark greenish gray (GLEY1 3/1), soft, low plasticity, moist, little fine grained sand, strong petroleum hydrocarbon odor. Groundwater sample collected at 0800 by peristaltic pump and temporary PVC casing screened between 6 and 8 feet bgs.
				10					
				11					- no sand content.
48	48			12					**SANDY SILTY CLAY** - very dark grayish brown (10YR 3/2), firm, low plasticity, wet, slight petroleum hydrocarbon odor.
				13					
				14					
			0.0	15				CL	- dense, moist.
48	48			16					**SILTY CLAY** - dark gray (10YR 4/1), stiff, low plasticity, wet to moist, slight petroleum hydrocarbon odor.
				17					
				18					
				19				ML	**SANDY SILT**- dark gray (10TR 4/1), medium stiff, moist.
			0.0	20					Boring terminated at 20 feet bgs. Boring filled and sealed with neat cement at 0830.
				21					

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

LOG OF SOIL BORING: **C-10**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: ECA
LICENSE NUMBER: 695970

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

DRILLING AND SAMPLING METHODS: Hand cleared to 2 feet bgs with hand auger. Drilled and sampled with Geoprobe 5410 utilizing direct-push technology and driving 1.25-inch diameter dual-tube soil sampling system.

				START	FINISH
WATER LEVEL	▽ 3.7				
TIME	1515			TIME 1450	TIME 1605
DATE	9/24/08			DATE 9/24/08	DATE 9/24/08
REFERENCE	GS				

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: N. Diem

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	
				0	AC/AB	Asphalt to 2 inches bgs.
				1		Hand cleared to 2 feet bgs with hand auger, no recovery.
18	18		0.0	2	ML	**SANDY SILT** - dark brown (2.5YR 3/2), soft, some gravel 0.25-inch in diameter, dry.
				3		- color change to black (7.5YR 2.5/1), hard.
				▽ 4	SW	**SAND** - very dark gray (10YR 3/1), loose, fine to coarse grained, well graded, little gravel 0.25-inch in diameter, moist.
48	48			5		
			0.0	6		Groundwater sample collected at 1515 by peristaltic pump and temporary PVC casing screened between 6 and 8 feet bgs.
				7		
				8		- color change to dark gray (10YR 4/1), some gravel with sea shells.
48	48			9	CL	**SILTY CLAY** - very dark gray (10YR 3/1), soft, low plasticity, moist.
			0.1	10		
				11		
48	48			12	ML	**CLAYEY SILT** - very dark gray (10YR 3/1), hard, moist.
				13		
				14		
			0.0	15		
				16		
48	48			17	SP	**SILTY SAND** - very dark gray (10YR 3/1), fine grained, poorly-graded, very dense, moist.
				18		
				19		
			0.0	20		Boring terminated at 20 feet bgs. Boring filled and sealed with neat cement at 1530.
				21		

AIR SAMPLE | WATER SAMPLE | SOIL SAMPLE RECOVERED

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

LOG OF SOIL BORING: **C-11**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: ECA
LICENSE NUMBER: 695970

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

DRILLING AND SAMPLING METHODS: Hand cleared to 4 feet bgs with hand auger. Drilled and sampled with Geoprobe 5410 utilizing direct-push technology and driving 1.25-inch diameter dual-tube soil sampling system.

				START	FINISH
WATER LEVEL ▽	7				
TIME	1355			TIME 1230	TIME 1500
DATE	9/24/08				
REFERENCE	GS			DATE 9/24/08	DATE 9/24/08

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: N. Diem

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	
				0	AC/AB	Asphalt to 2 inches bgs.
				1		Hand cleared to 2 feet bgs with hand auger. Attempted to sample at 2 feet but no recovery.
18	0			2		Sand and gravel fill to 4 feet bgs, no recovery.
				3		
48	48			4	CL	**CLAY** - very dark grayish brown (10YR 3/2), low plasticity, soft, slightly moist, little sand.
			0.0	5		
				6	SP	**SAND** - very dark gray (10YR 3/1), poorly-graded, fine grained, loose, moist.
				▽ 7		Groundwater sample collected at 1355 by peristaltic pump and temporary PVC casing screened between 6 and 8 feet bgs.
48	48			8		
				9	CL	**CLAY** - very dark gray (10YR 3/1), medium plasticity, stiff, moist, little sand.
			0.0	10		
				11		
48	48			12	SP	**SILTY SAND** - very dark gray (10YR 3/1), poorly-sorted, fine grained, loose, wet.
				13		
				14	CL	**SANDY CLAY** - very dark gray (10YR 3/1), soft, low plasticity, moist, few sea shells.
			0.0	15		
48	48			16	SP	**SAND** - very dark gray (10YR 3/1), poorly-graded, fine grained, loose, wet.
				17	CL	**SANDY CLAY** - very dark gray (10YR 3/1), soft, low plasticity, moist.
				18	SP	**SILTY SAND** - very dark gray (10YR 3/1), poorly-graded, fine grained, medium dense, moist.
				19		
			0.0	20		Boring terminated at 20 feet bgs. Boring filled and sealed with neat cement at 1430.
				21		

AIR SAMPLE | WATER SAMPLE | SOIL SAMPLE | RECOVERED

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

LOG OF SOIL BORING: **C-12**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: ECA
LICENSE NUMBER: 695970

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

DRILLING AND SAMPLING METHODS: Hand cleared to 2 feet bgs with hand auger. Drilled and sampled with Geoprobe 5410 utilizing direct-push technology and driving 1.25-inch diameter dual-tube soil sampling system.

				START	FINISH
WATER LEVEL	▽ 10.7				
TIME	1540			TIME 1500	TIME 1620
DATE	9/25/08			DATE 9/25/08	DATE 9/25/08
REFERENCE	GS				

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: M. Garcia

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	
				0				AC/AB	Asphalt to 3 inches bgs.
				1					Hand cleared to 2 feet bgs with hand auger, no recovery.
				2					
18	18		0.0	3				CL	**SANDY CLAY** - dark greenish gray (GLEY1 10Y), soft, low plasticity, moist, fine grained sand, with angular gravels 0.25 inches in diameter, slight petroleum hydrocarbon odor.
48	48			4					
			0.0	5					**CLAY** - black (10YR 2/1), very soft, low plasticity, moist, slight petroleum hydrocarbon odor.
				6					
				7					- mostly root and stem material.
48	48			8				CL	- color change to greenish gray (GLEY1 10Y).
				9					- hydrogen sulfide odor.
			0.0	10					
				▽ 11					
48	48			12					**SANDY CLAY** - dark greenish gray (GLEY1 10Y), very soft, low plasticity, very fine grained sand, moist.
				13				CL	
				14					
			0.0	15					**CLAYEY SAND** - dark greenish gray (GLEY1 10Y), very fine grained sand, dense, moist to wet.
48	48			16					- saturated.
				17					Groundwater sample collected at 1540 by peristaltic pump and temporary PVC casing screened between 16 and 18 feet bgs.
				18				SC	- moist to wet.
				19					
			0.0	20					20' - 21' - saturated.
48	48			21					

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

LOG OF SOIL BORING:

C-12

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	
				22	SC	- moist to wet, small shell fragments. 22' - 22.5' - sand content reduces to some sand.
				23	CL	**CLAY** - very dark greenish gray (GLEY1 5G), low plasticity, with some fine grained sand, hard, moist.
48	48			24		
			0.0	25	ML	**CLAYEY SANDY SILT** - light olive brown (2.5Y 5/6) mottled with light olive brown (2.5Y 5/4), very stiff, very fine grained sand, with little angular and subangular gravels less that 0.25 inches in diameter, moist. 25' - **SANDY SILT** - light olive brown (2.5Y 5/6) mottled with light olive brown (2.5Y 5/4), very stiff, moist.
				26		
				27		
24	24			28	CL	**CLAY** - light yellowish brown (2.5Y 6/4), very stiff, low plasticity, with little fine grained sand, slightly moist to moist.
				29		
			0.0	30		- stiff. Boring terminated at 30 feet bgs.
				31		
				32		
				33		
				34		
				35		
				36		
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		

AIR SAMPLE | WATER SAMPLE | SOIL SAMPLE | RECOVERED

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

LOG OF SOIL BORING: **C-13**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: ECA
LICENSE NUMBER: 695970

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

DRILLING AND SAMPLING METHODS: Hand cleared to 2.5 feet bgs with hand auger. Drilled and sampled with Geoprobe 5410 utilizing direct-push technology and driving 1.25-inch diameter dual-tube soil sampling system.

				START	FINISH
WATER LEVEL ▽	6				
TIME	1120			TIME 1020	TIME 1240
DATE	9/25/08				
REFERENCE	GS			DATE 9/25/08	DATE 9/25/08

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: N. Diem

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	
				0				AC/AB	Asphalt to 3 inches bgs.
				1					Hand cleared to 2.5 feet bgs with hand auger, no recovery.
				2					
18	18		0.0	3				SM	**SILTY SAND** - brown (7.5YR 4/4), fine to coarse grained, loose, dry, some angular gravel less than 0.25 inches in diameter.
				4				CL	**SANDY CLAY** - very dark greenish gray (GLEY1 3/1), stiff, low plasticity, moist, very fine grained sand.
48				5					
	36			6				CL	**SILTY CLAY** - very dark greenish gray (GLEY1 3/1), stiff, low plasticity, moist.
				7				CL	Groundwater sample collected at 1120 by peristaltic pump and temporary PVC casing screened between 4 and 8 feet bgs.
				8					**CLAY** - greenish black (GLEY1 2.5/1), firm, low plasticity, moist.
48	48			9					**CLAY** - very dark greenish gray (GLEY1 3/1), stiff, low plasticty, moist, organic material from 8 to 10 feet bgs.
			0.0	10				CL	
				11					
48	48			12				CL	**SILTY CLAY** -greenish black (GLEY1 2.5/1), soft, non-plastic, wet.
				13					**CLAY** - greenish black (GLEY1 2.5/1), soft, low plasticity, moist.
				14				CL	
			0.0	15				CL	- wet. **SILTY CLAY** - greenish black (GLEY1 2.5/1), stiff, low plasticity, moist, little fine grained sand, shell fragments.
48	48			16				CL	**CLAY** - very dark greenisg gray (GLEY1 2.5/1), firm, low plasticity, moist.
				17					**SANDY SILTY CLAY** - very dark greenish gray (GLEY1 2.5/1), soft, moist, some fine grained sand, shell fragments.
				18				CL	
				19					
			0.0	20					Boring terminated at 20 feet bgs. Boring filled and sealed with neat cement at 1230.
				21					

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

LOG OF SOIL BORING: **C-14**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: ECA
LICENSE NUMBER: 695970

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

DRILLING AND SAMPLING METHODS: Hand cleared to 2.5 feet bgs with hand auger. Drilled and sampled with Geoprobe 5410 utilizing direct-push technology and driving 1.25-inch diameter dual-tube soil sampling system.

				START	FINISH
WATER LEVEL ▽	7.8				
TIME	1035			TIME 1000	TIME 1120
DATE	9/25/08			DATE 9/25/08	DATE 9/25/08
REFERENCE	GS				

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: N. Diem

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	
				0				AC/AB	Asphalt to 2 inches bgs.
				1					Hand cleared to 2.5 feet bgs with hand auger, no recovery.
				2					
18	18		0.0	3				GW	**GRAVEL WITH SILT AND SAND** - dark brown (2YR 3/3), angular to subangular gravels 0.25 to 0.50-inch in diameter, loose, dry.
				4				SM	**CLAYEY SILTY SAND** - very dark gray (10YR 3/1), very fine grained sand, dense, moist to wet.
48	48			5				CL	4' - **SILTY CLAY** - dark greenish gray (GLEY1 4), stiff, low plasticity, stiff, wet to moist.
			0.0	6					Groundwater sample collected at 1035 by peristaltic pump and temporary PVC casing screened between 4 and 8 feet bgs.
				7					**CLAY** - reddish black (2.5YR 2.5/1), stiff, low plasticity, moist.
48	48			8 ▽					- color change to greenish black (GLEY1 2.5), low plasticity, soft, wet.
				9					
			0.0	10					
				11					- low plasticity, firm, moist.
48	48			12				CL	- color change to very dark grayish brown (10YR 3/2).
				13					
			0.0	14					15' to 15.5' - organic material.
48	48			15					
				16					
				17					
				18					**SANDY CLAY** - dark gray (10YR 3/1), stiff, low plasticity, moist.
			0.0	19				CL	
				20					Boring terminated at 20 feet bgs. Boring filled and sealed with neat cement at 1100.
				21					

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

LOG OF SOIL BORING: **C-15**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: ECA
LICENSE NUMBER: 695970

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

DRILLING AND SAMPLING METHODS: Hand cleared to 2 feet bgs with hand auger. Drilled and sampled with Geoprobe 5410 utilizing direct-push technology and driving 1.25-inch diameter dual-tube and 2-inch micro-core soil sampling system

				START	FINISH
WATER LEVEL	▽ 3.8	▼ 20.0			
TIME	1639	1740		TIME 1635	TIME 1750
DATE	9/25/08	9/25/08		DATE 9/25/08	DATE 9/25/08
REFERENCE	GS	GS			

SURFACE CONDITIONS: Soil

DESCRIPTION BY: M. Garcia

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	Description
48				0	AC/AB	Asphalt to 3 inches bgs. Hand cleared to 2 feet bgs with hand auger. **SANDY SILT** - dark yellowish brown (10YR 4/6), stiff, very fine grained sand, with angular to subangular gravels from 0.25 to 0.5 inches in diameter, dry.
	36			1		
			0.0	2		
				3		- firm, moist, strong petroleum hydrocarbon odor.
48	48			4 ▽	ML	- organic material.
			0.0	5		Groundwater sample collected at 1645 by peristaltic pump and temporary PVC casing screened between 4 and 8 feet bgs.
				6		
				7		
48	48			8	CL	**CLAY** - very dark greenish gray (GLEY1 10Y), soft to very soft, low plasticity, moist.
				9		
			0.0	10		
				11		
48	48			12	CL	**SANDY CLAY** - very dark greenish gray (GLEY1 10Y), very soft, low plasticity, moist to wet.
				13		
				14		
			0.0	15		
48	48			16	SC	**CLAYEY SAND** - very dark greenish gray (GLEY1 10Y), very fine grained sand, dense, moist.
				17		
				18		
				19	SM	**CLAYEY SILTY SAND** - dark greenish gray (GLEY1 10Y), very fine grained sand, dense.
			0.0	20 ▼	SW	**SAND** - very dark greenish gray (GLEY1 10Y), well-graded, fine to medium grained sand, with small shell fragments, medium dense, moist.
48	48			21		

AIR SAMPLE | WATER SAMPLE | SOIL SAMPLE RECOVERED

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

LOG OF SOIL BORING:

C-15

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	
				22					SW	- dense, saturated.
				23						
			0.0	24						Groundwater sample collected at 1740 by hydropunch of new boring near original boring, with peristaltic pump, and temporary PVC casing screened between 20 and 24 feet bgs. Boring terminated at 24 feet bgs. Drive rods full of flowing sands and will not let sampler reach the targeted depth.
				25						
				26						
				27						
				28						
				29						
				30						
				31						
				32						
				33						
				34						
				35						
				36						
				37						
				38						
				39						
				40						
				41						
				42						
				43						
				44						
				45						
				46						
				47						

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

ETIC ENGINEERING

LOG OF SOIL BORING: **C-16**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: ECA
LICENSE NUMBER: 695970

CLIENT	SITE NUMBER	LOCATION
R.W.L. Investments, Inc.	TIDEWATER	4919 Tidewater Avenue Oakland, California

DRILLING AND SAMPLING METHODS: Hand cleared to 2 feet bgs with hand auger. Drilled and sampled with Geoprobe 6600 utilizing direct-push technology and driving 1.25-inch diameter dual-tube soil sampling system.

				START	FINISH
WATER LEVEL	▽ 6.5				
TIME	0910			TIME 0855	TIME 1020
DATE	9/25/08			DATE 9/25/08	DATE 9/25/08
REFERENCE	GS				

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: N. Diem

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	
				0				AC/AB	Asphalt to 3 inches bgs.
				1					Hand cleared to 2 feet bgs with hand auger; sampled with slidehammer, no recovery.
				2					
18	18		0.0	3				CL	**SILTY CLAY** - very dark greenish brown (2.5Y 3/2), stiff, with little angular gravels 0.25 inches in diameter, moist, slight petroleum hydrocarbon odor.
48				4					4' to 6' - no recovery; soil fell out in water.
				5					Groundwater sample collected at 0910 by peristaltic pump and temporary PVC casing screened between 4 and 8 feet bgs.
	24		0.0	6 ▽					Wood chips, very little to no soil, wet.
				7					
48				8					8' to 10' - no recovery.
				9					
	24			10					Wood chips, wet.
				11				CL	**SANDY SILTY CLAY** - dark greenish gray (GLEY1 4/1), stiff, low plasticity, wet.
48	48		0.0	12					
				13					- slightly more sand, soft, wet.
				14					
				15					
48	48		0.0	16				ML	**SANDY SILT** - very dark greenish gray (GLEY1 3/1), stiff, moist.
				17				CL	**CLAY** - very dark greenish gray (GLEY1 3/1), stiff, low plasticity, moist.
				18				ML	**SANDY SILT** - very dark greenish gray (GLEY1 3/1), stiff, moist.
				19					
			0.0	20					Boring terminated at 20 feet bgs.
				21					

LOG OF SOIL BORING TIDEWATER.GPJ ETIC.GDT 1/19/09

Appendix D

Laboratory Analytical Reports and Chain-of-Custody Documentation

KIFF Analytical LLC

Report Number : 65042
Date : 10/03/2008

Maura Dougherty
ETIC Engineering, Inc
2285 Morello Avenue
Pleasant Hill, CA 94523

Subject : 1 Soil Sample
Project Name : Tidewater
Project Number : TMTIDE4, 2

Dear Ms. Dougherty,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 65042
Date : 10/03/2008

Subject : 1 Soil Sample
Project Name : Tidewater
Project Number : TMTIDE4, 2

Case Narrative

Matrix Spike/Matrix Spike Duplicate results associated with sample DRUM 1 for the analytes 1,1-Dichloroethane, Benzene, and Chlorobenzene were outside of control limits. This may indicate a bias for the sample that was spiked. Since the LCS recoveries were within control limits, no data are flagged.

Matrix Spike/Matrix Spike Duplicate results associated with sample DRUM 1 for the analyte Toluene were affected by the analyte concentrations already present in the un-spiked sample.

KIFF Analytical LLC

Report Number : 65042
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **DRUM 1** Matrix : Soil Lab Number : 65042-01
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	**24**	1.0	mg/Kg	M EPA 8015	09/30/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Motor Oil	**58**	10	mg/Kg	M EPA 8015	10/01/2008
1-Chlorooctadecane (Silica Gel Surr)	81.9		% Recovery	M EPA 8015	09/30/2008
1-Chlorooctadecane (Diesel Surrogate)	78.0		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65042
Date : 10/03/2008

Sample : **DRUM 1**
Project Name : **Tidewater**
Project Number : **TMTIDE4, 2** Lab Number : 65042-01 Date Analyzed : 09/30/08
Matrix : Soil Sample Date :09/25/2008 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
TPH as Gasoline	< 1.0	1.0	mg/Kg
Dichlorodifluoromethane	< 0.0050	0.0050	mg/Kg
Chloromethane	< 0.0050	0.0050	mg/Kg
Vinyl Chloride	< 0.0050	0.0050	mg/Kg
Bromomethane	< 0.020	0.020	mg/Kg
Chloroethane	< 0.0050	0.0050	mg/Kg
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg
Methylene Chloride	< 0.0050	0.0050	mg/Kg
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg
2,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
Chloroform	< 0.0050	0.0050	mg/Kg
Bromochloromethane	< 0.0050	0.0050	mg/Kg
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg
Benzene	< 0.0050	0.0050	mg/Kg
Trichloroethene	< 0.0050	0.0050	mg/Kg
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
Bromodichloromethane	< 0.0050	0.0050	mg/Kg
Dibromomethane	< 0.0050	0.0050	mg/Kg
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
Toluene	< 0.0050	0.0050	mg/Kg
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,3-Dichloropropane	< 0.0050	0.0050	mg/Kg
Tetrachloroethene	< 0.0050	0.0050	mg/Kg
Dibromochloromethane	< 0.0050	0.0050	mg/Kg
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg
Chlorobenzene	< 0.0050	0.0050	mg/Kg
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
Ethylbenzene	< 0.0050	0.0050	mg/Kg
Total Xylenes	< 0.0050	0.0050	mg/Kg
Styrene	< 0.0050	0.0050	mg/Kg
Isopropyl benzene	< 0.0050	0.0050	mg/Kg

Parameter	Measured Value	MRL [1]	Units
Bromoform	< 0.0050	0.0050	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
1,2,3-Trichloropropane	< 0.0050	0.0050	mg/Kg
n-Propylbenzene	< 0.0050	0.0050	mg/Kg
Bromobenzene	< 0.0050	0.0050	mg/Kg
1,3,5-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
2+4-Chlorotoluene	< 0.0050	0.0050	mg/Kg
tert-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2,4-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
sec-Butylbenzene	< 0.0050	0.0050	mg/Kg
p-Isopropyltoluene	< 0.0050	0.0050	mg/Kg
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
n-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	mg/Kg
1,2,4-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
Hexachlorobutadiene	< 0.0050	0.0050	mg/Kg
Naphthalene	< 0.0050	0.0050	mg/Kg
1,2,3-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane-d4 (Surr)	106		% Recovery
4-Bromofluorobenzene (Surr)	110		% Recovery
Toluene - d8 (Surr)	91.5		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

KIFF Analytical LLC

Report Number : 65042

Date : 10/03/2008

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Sample : **DRUM 1** Matrix : Soil Lab Number : 65042-01

Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	**6.5**	0.50	mg/Kg	EPA 6010B	10/02/2008

Report Number : 65042

Date : 10/03/2008

QC Report : Method Blank Data

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	< 0.50	0.50	mg/Kg	EPA 6010B	10/02/2008
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	09/30/2008
TPH as Motor Oil	< 10	10	mg/Kg	M EPA 8015	09/30/2008
1-Chlorooctadecane (Diesel Surrogate)	94.5		%	M EPA 8015	09/30/2008
1-Chlorooctadecane (Silica Gel Surr)	94.4		%	M EPA 8015	09/30/2008
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/30/2008
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,1-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2,3-Trichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2,3-Trichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2,4-Trichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2,4-Trimethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,3,5-Trimethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,3-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
2+4-Chlorotoluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
2,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Bromobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Bromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Bromodichloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Bromoform	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Bromomethane	< 0.020	0.020	mg/Kg	EPA 8260B	09/30/2008
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Chlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Chloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Chloroform	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Chloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Dibromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Dibromomethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Dichlorodifluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Hexachlorobutadiene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Isopropyl benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Methylene Chloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Styrene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Tetrachloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Trichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Vinyl Chloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
n-Butylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
n-Propylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
p-Isopropyltoluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
sec-Butylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
tert-Butylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	09/30/2008
4-Bromofluorobenzene (Surr)	109		%	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	92.3		%	EPA 8260B	09/30/2008

Report Number : 65042

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 10/03/2008

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,1-Dichloroethane	65050-21	<0.0050	0.0394	0.0395	0.0266	0.0278	mg/Kg	EPA 8260B	9/30/08	67.6	70.2	3.73	70-130	25
1,2-Dichloroethane	65050-21	<0.0050	0.0389	0.0391	0.0290	0.0294	mg/Kg	EPA 8260B	9/30/08	74.5	75.2	0.982	70-130	25
Benzene	65050-21	0.014	0.0398	0.0400	0.0445	0.0413	mg/Kg	EPA 8260B	9/30/08	77.1	68.7	11.5	70-130	25
Chlorobenzene	65050-21	<0.0050	0.0399	0.0400	0.0233	0.0256	mg/Kg	EPA 8260B	9/30/08	58.5	64.1	9.04	70-130	25
Toluene	65050-21	0.14	0.0392	0.0394	0.190	0.171	mg/Kg	EPA 8260B	9/30/08	136	85.8	45.5	70-130	25
Lead	65042-01	6.5	50.0	50.0	55.4	55.4	mg/Kg	EPA 6010B	10/2/08	98.0	98.0	0.00	75-125	20
TPH-D (Si Gel)	65002-05	<1.0	20.0	20.0	17.8	17.5	mg/Kg	M EPA 8015	9/30/08	88.8	87.6	1.31	60-140	25
TPH as Diesel	65002-05	<1.0	20.0	20.0	18.7	18.5	mg/Kg	M EPA 8015	9/30/08	93.6	92.7	0.928	60-140	25

Report Number : 65042

QC Report : Laboratory Control Sample (LCS)

Date : 10/03/2008

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Lead	50.0	mg/Kg	EPA 6010B	10/2/08	103	85-115
TPH-D (Si Gel)	20.0	mg/Kg	M EPA 8015	9/30/08	82.0	70-130
TPH as Diesel	20.0	mg/Kg	M EPA 8015	9/30/08	82.0	70-130
1,1-Dichloroethane	0.0390	mg/Kg	EPA 8260B	9/30/08	85.3	70-130
1,2-Dichloroethane	0.0386	mg/Kg	EPA 8260B	9/30/08	91.3	70-130
Benzene	0.0394	mg/Kg	EPA 8260B	9/30/08	88.4	70-130
Chlorobenzene	0.0395	mg/Kg	EPA 8260B	9/30/08	96.9	70-130
Toluene	0.0388	mg/Kg	EPA 8260B	9/30/08	89.0	70-130

KIFF Analytical LLC

2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 65042

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Maura Dougherty	California EDF Report? ☑ Yes ☐ No
Company / Address: 2285 Morello Ave., Pleasant Hill, CA 94523	Sampling Company Log Code:
Phone #: 925-602-4710, ext. 41 / Fax #: 925-602-4720	Global ID: T0609900085
Project #: TMTIDE4, 2 / P.O. #:	EDF Deliverable To (Email Address): MDougherty@eticeng.com, eticlabreports@eticeng.com
Project Name: Tidewater	Sampler Signature:
Project Address: 4919 Tidewater Ave. Oakland, CA 94601	

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	Analysis Request: BTEX (EPA 8260B)	Analysis Request: TPH as Diesel with silica gel cleanup (EPA 8015M)	Analysis Request: TPH Gas (EPA 8260B)	Analysis Request: TPH as Motor Oil (EPA 8015M)	Analysis Request: W.E.T. Lead (STLC)	Analysis Request: Total Lead (EPA 6010)	Analysis Request: Volatile Organics Full List (EPA 8260B)	For Lab Use Only
DRUM 1	9.25.08	1750		X						X		X		X	X	X	X		X	X	01

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☒ 1 wk

Relinquished by:	Date	Time	Received by:
[signature]	9/26/08	1200	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	092608	1510	KIFF Analytical

Remarks:
~~Please fax copy of C.O.C. to Maura, MC 9/24/08~~
~~(925) 602-4724~~ MC 9/24/08

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
2.4	JJL	092608	1740	IR1	Yes / No

Distribution: White - Lab; Copy - Originator
Rev: 051805

KIFF Analytical LLC

Report Number : 64975
Date : 09/30/2008

Maura Dougherty
ETIC Engineering, Inc
2285 Morello Avenue
Pleasant Hill, CA 94523

Subject : 5 Water Samples
Project Name : Tidewater
Project Number : TMTIDE4, 2

Dear Ms. Dougherty,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 64975
Date : 09/30/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-1W,20** Matrix : Water Lab Number : 64975-01
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	110		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	09/27/2008
Octacosane (Silica Gel Surr)	105		% Recovery	M EPA 8015	09/27/2008

KIFF Analytical LLC

Report Number : 64975
Date : 09/30/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-3W,8** Matrix : Water Lab Number : 64975-02
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**78**	50	ug/L	M EPA 8015	09/27/2008
(Note: Discrete peaks in Diesel range, atypical for Diesel Fuel.)					
Octacosane (Silica Gel Surr)	96.8		% Recovery	M EPA 8015	09/27/2008

KIFF Analytical LLC

Report Number : 64975
Date : 09/30/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-4W,16** Matrix : Water Lab Number : 64975-03
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	106		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	09/27/2008
Octacosane (Silica Gel Surr)	84.0		% Recovery	M EPA 8015	09/27/2008

KIFF Analytical LLC

Report Number : 64975
Date : 09/30/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-6W,7** Matrix : Water Lab Number : 64975-04
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	111		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**26000**	50	ug/L	M EPA 8015	09/27/2008
Octacosane (Silica Gel Surr)	77.8		% Recovery	M EPA 8015	09/27/2008

KIFF Analytical LLC

Report Number : 64975
Date : 09/30/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-2W,12** Matrix : Water Lab Number : 64975-05
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	09/29/2008
Octacosane (Silica Gel Surr)	108		% Recovery	M EPA 8015	09/29/2008

Report Number : 64975

Date : 09/30/2008

QC Report : Method Blank Data

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	09/25/2008
Octacosane (Silica Gel Surr)	104		%	M EPA 8015	09/25/2008
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	09/29/2008
Octacosane (Silica Gel Surr)	102		%	M EPA 8015	09/29/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/26/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/26/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/26/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/26/2008
1,2-Dichloroethane-d4 (Surr)	98.1		%	EPA 8260B	09/26/2008
Toluene - d8 (Surr)	96.8		%	EPA 8260B	09/26/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Report Number : 64975

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 09/30/2008

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	64942-09	1.1	39.5	39.5	38.2	38.3	ug/L	EPA 8260B	9/26/08	94.0	94.2	0.125	70-130	25
Toluene	64942-09	1.3	38.9	38.9	37.7	37.5	ug/L	EPA 8260B	9/26/08	93.6	92.9	0.709	70-130	25
TPH-D (Si Gel)	BLANK	<50	1000	1000	898	884	ug/L	M EPA 8015	9/25/08	89.8	88.4	1.52	70-130	25
TPH-D (Si Gel)	BLANK	<50	1000	1000	1010	855	ug/L	M EPA 8015	9/29/08	101	85.5	16.8	70-130	25

Report Number : 64975

QC Report : Laboratory Control Sample (LCS)

Date : 09/30/2008

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.1	ug/L	EPA 8260B	9/26/08	94.6	70-130
Toluene	39.5	ug/L	EPA 8260B	9/26/08	93.8	70-130

KIFF Analytical LLC

2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 64975

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Maura Dougherty		California EDF Report? ☑ Yes ☐ No
Company / Address: 2285 Morello Ave., Pleasant Hill, CA 94523		Sampling Company Log Code:
Phone #: 925-602-4710, ext. 41	Fax #: 925-602-4720	Global ID: T0609900085
Project #: TMTIDE4, 2	P.O. #:	EDF Deliverable To (Email Address): MDougherty@eticeng.com, eticlabreports@eticeng.com
Project Name: Tidewater		Sampler Signature:
Project Address: 4919 Tidewater Ave. Oakland, CA 94601		

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	Analysis Request: BTEX (EPA 8260B)	Analysis Request: TPH as Diesel with silica gel cleanup (EPA 8015M)	Analysis Request: Remarks	For Lab Use Only
C-1W, 20	9/24/08	1000	5					X		X	X			X	X		01
C-3W, 8	"	1005	5					X			X			X	X		02
G-4W, 16	"	1235	5					X			X			X	X		03
C-6W, 7	"	1300	5							X	X			X	X	* Noticed sheen on sample	04
C-2W, 12	"	1100	5					X			X			X	X		05

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☒ 1 wk

Relinquished by	Date	Time	Received by:
	9/24/08		
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	092408	1348	Kiff Analytical

Remarks: Please fax copy of C.O.C. to Maura, (925) 602-4720

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
1.4	TJB	092408	1608	IR-1	(Yes) No

Distribution: White - Lab; Copy - Originator
Rev: 051805

KIFF Analytical LLC

Report Number : 65012
Date : 10/03/2008

Maura Dougherty
ETIC Engineering, Inc
2285 Morello Avenue
Pleasant Hill, CA 94523

Subject : 10 Water Samples
Project Name : Tidewater
Project Number : TMTIDE4,2

Dear Ms. Dougherty,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 65012
Date : 10/03/2008

Subject : 10 Water Samples
Project Name : Tidewater
Project Number : TMTIDE4,2

Case Narrative

For sample C-14W,8, repeat analysis by test method Modified EPA 8015 yielded inconsistent results. The concentrations appear to vary between the bottles. The highest valid results are reported.

KIFF Analytical LLC

Report Number : 65012
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4,2**

Sample : **C-10W,8** Matrix : Water Lab Number : 65012-01
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	97.6		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**11000**	50	ug/L	M EPA 8015	09/30/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
Octacosane (Silica Gel Surr)	82.8		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 65012
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4,2**

Sample : **C-1W,12** Matrix : Water Lab Number : 65012-02
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	97.9		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	91.5		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	09/30/2008
Octacosane (Silica Gel Surr)	103		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 65012
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4,2**

Sample : **C-7W,7** Matrix : Water Lab Number : 65012-03
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	97.8		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**18000**	50	ug/L	M EPA 8015	09/30/2008
Octacosane (Silica Gel Surr)	89.2		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 65012
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4,2**

Sample : **C-7,W,23** Matrix : Water Lab Number : 65012-04
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	97.1		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**< 80**	80	ug/L	M EPA 8015	09/30/2008
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
Octacosane (Silica Gel Surr)	84.5		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 65012
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4,2**

Sample : **C-11W,8** Matrix : Water Lab Number : 65012-05
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	97.4		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**76**	50	ug/L	M EPA 8015	09/30/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
Octacosane (Silica Gel Surr)	95.9		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 65012
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4,2**

Sample : **C-14W,8** Matrix : Water Lab Number : 65012-06
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	99.7		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**190**	50	ug/L	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
Octacosane (Silica Gel Surr)	91.5		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65012
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4,2**

Sample : **C-16W.8** Matrix : Water Lab Number : 65012-07
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**3800**	50	ug/L	M EPA 8015	09/30/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
Octacosane (Silica Gel Surr)	83.9		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 65012
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4,2**

Sample : **C-12W,20** Matrix : Water Lab Number : 65012-08
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	99.3		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**86**	50	ug/L	M EPA 8015	09/30/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
Octacosane (Silica Gel Surr)	100		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 65012
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4,2**

Sample : **C-13W,8** Matrix : Water Lab Number : 65012-09
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/29/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/29/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	97.4		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**120**	50	ug/L	M EPA 8015	09/30/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
Octacosane (Silica Gel Surr)	93.0		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 65012
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4,2**

Sample : **C-8W,20** Matrix : Water Lab Number : 65012-10
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**640**	50	ug/L	M EPA 8015	09/30/2008
Octacosane (Silica Gel Surr)	96.3		% Recovery	M EPA 8015	09/30/2008

Report Number : 65012

Date : 10/03/2008

QC Report : Method Blank Data

Project Name : **Tidewater**

Project Number : **TMTIDE4,2**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	09/29/2008
Octacosane (Silica Gel Surr)	102		%	M EPA 8015	09/29/2008
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	10/02/2008
Octacosane (Silica Gel Surr)	105		%	M EPA 8015	10/02/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	99.8		%	EPA 8260B	09/29/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/30/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/30/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/30/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	95.4		%	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	91.6		%	EPA 8260B	09/30/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/30/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/30/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/30/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	99.2		%	EPA 8260B	09/30/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	98.5		%	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	99.9		%	EPA 8260B	09/29/2008

Report Number : 65012

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 10/03/2008

Project Name : **Tidewater**

Project Number : **TMTIDE4,2**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)	BLANK	<50	1000	1000	1010	855	ug/L	M EPA 8015	9/29/08	101	85.5	16.8	70-130	25
Benzene	65012-09	<0.50	39.6	39.8	39.2	39.3	ug/L	EPA 8260B	9/29/08	99.2	98.7	0.471	70-130	25
Toluene	65012-09	<0.50	39.0	39.2	37.2	37.4	ug/L	EPA 8260B	9/29/08	95.5	95.5	0.0418	70-130	25
Benzene	65008-02	<0.50	40.1	40.1	41.0	40.5	ug/L	EPA 8260B	9/30/08	102	101	1.39	70-130	25
Toluene	65008-02	<0.50	39.5	39.5	41.2	40.4	ug/L	EPA 8260B	9/30/08	104	102	1.99	70-130	25
Benzene	65008-08	<0.50	40.1	40.1	38.4	37.5	ug/L	EPA 8260B	9/30/08	95.8	93.5	2.44	70-130	25
Toluene	65008-08	<0.50	39.5	39.5	38.0	37.1	ug/L	EPA 8260B	9/30/08	96.0	93.8	2.28	70-130	25
Benzene	65010-10	1.2	40.1	40.1	40.9	40.1	ug/L	EPA 8260B	9/29/08	99.1	97.0	2.15	70-130	25
Toluene	65010-10	<0.50	39.5	39.5	38.5	37.7	ug/L	EPA 8260B	9/29/08	97.3	95.3	2.08	70-130	25
TPH-D (Si Gel)	BLANK	<50	1000	1000	1050	1050	ug/L	M EPA 8015	10/2/08	105	105	0.381	70-130	25

Report Number : 65012

QC Report : Laboratory Control Sample (LCS)

Date : 10/03/2008

Project Name : **Tidewater**

Project Number : **TMTIDE4,2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.1	ug/L	EPA 8260B	9/29/08	103	70-130
Toluene	39.5	ug/L	EPA 8260B	9/29/08	104	70-130
Benzene	40.1	ug/L	EPA 8260B	9/30/08	102	70-130
Toluene	39.5	ug/L	EPA 8260B	9/30/08	103	70-130
Benzene	40.2	ug/L	EPA 8260B	9/30/08	98.4	70-130
Toluene	40.2	ug/L	EPA 8260B	9/30/08	98.2	70-130
Benzene	40.0	ug/L	EPA 8260B	9/29/08	98.9	70-130
Toluene	39.4	ug/L	EPA 8260B	9/29/08	96.8	70-130

KIFF Analytical LLC

2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 65012

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Maura Dougherty	California EDF Report? ☑ Yes ☐ No
Company / Address: 2285 Morello Ave., Pleasant Hill, CA 94523	Sampling Company Log Code:
Phone #: 925-602-4710, ext. 41 / Fax #: 925-602-4720	Global ID: T0609900085
Project #: TMTIDE4, 2 / P.O. #:	EDF Deliverable To (Email Address): MDougherty@eticeng.com, eticlabreports@eticeng.com
Project Name: Tidewater	Sampler Signature:
Project Address: 4919 Tidewater Ave. Oakland, CA 94601	

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☒ 1 wk

	Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	Analysis Request: BTEX (EPA 8260B)	Analysis Request: TPH as Diesel with silica gel cleanup (EPA 8015M)	For Lab Use Only
1	C-10W, 8	9/24/08	1515	5					X			X			X	X	01
1	C-1W, 12	"	1648	2					X			X			X	X	02
1	C-7W, 7	"	1442	5					X			X			X	X	03
1	C-7, W, 23	"	1500	5					X			X			X	X	04
1	C-11W, 8	"	1355	5					X			X			X	X	05
1	C-14W, 8	9/25/08	1039	5					X			X			X	X	06
1	C-16W, 8	9/25/08	0916	5					X			X			X	X	07
1	C-12W, 20	9.25.08	1340	5					X			X			X	X	08
1	C-13W, 8	"	1130	5					X			X			X	X	09
1	C-8W, 20	"	1450	5					X			X			X	X	10

Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	092508	1709	Kiff Analytical

Remarks: Please fax copy of C.O.C. to Maura, (925) 602-4720.

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
3.2	LOR	092508	2014	IR-1	(Yes) / No

Distribution: White - Lab; Copy - Originator
Rev: 051805

KIFF Analytical LLC

Report Number : 65040
Date : 10/03/2008

Maura Dougherty
ETIC Engineering, Inc
2285 Morello Avenue
Pleasant Hill, CA 94523

Subject : 3 Water Samples
Project Name : Tidewater
Project Number : TMTIDE4, 2

Dear Ms. Dougherty,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 65040
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-5W,20** Matrix : Water Lab Number : 65040-01
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	98.1		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	**74**	50	ug/L	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
Octacosane (Silica Gel Surr)	108		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65040
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C15W,8** Matrix : Water Lab Number : 65040-02
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/02/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/02/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/02/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/02/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	10/02/2008
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	10/02/2008
TPH as Diesel (Silica Gel)	**9300**	50	ug/L	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
Octacosane (Silica Gel Surr)	87.5		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65040
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C15W,24** Matrix : Water Lab Number : 65040-03
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/02/2008
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/02/2008
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/02/2008
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/02/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	10/02/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	10/02/2008
TPH as Diesel (Silica Gel)	**130**	50	ug/L	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
Octacosane (Silica Gel Surr)	103		% Recovery	M EPA 8015	10/01/2008

Report Number : 65040

Date : 10/03/2008

QC Report : Method Blank Data

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	105		%	M EPA 8015	10/01/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/02/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/02/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/02/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/02/2008
1,2-Dichloroethane-d4 (Surr)	98.1		%	EPA 8260B	10/02/2008
Toluene - d8 (Surr)	100		%	EPA 8260B	10/02/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/02/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/02/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/02/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/02/2008
1,2-Dichloroethane-d4 (Surr)	98.6		%	EPA 8260B	10/02/2008
Toluene - d8 (Surr)	100		%	EPA 8260B	10/02/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	97.8		%	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	100		%	EPA 8260B	10/01/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Report Number : 65040

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 10/03/2008

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)	BLANK	<50	1000	1000	1070	1130	ug/L	M EPA 8015	10/1/08	107	113	5.34	70-130	25
Benzene	65084-04	<0.50	40.1	40.1	42.2	40.7	ug/L	EPA 8260B	10/2/08	105	101	3.67	70-130	25
Toluene	65084-04	<0.50	39.5	39.5	40.4	38.8	ug/L	EPA 8260B	10/2/08	102	98.2	4.11	70-130	25
Benzene	65082-02	<0.50	40.1	40.1	41.4	40.8	ug/L	EPA 8260B	10/2/08	103	102	1.31	70-130	25
Toluene	65082-02	<0.50	39.5	39.5	39.6	39.1	ug/L	EPA 8260B	10/2/08	100	99.0	1.15	70-130	25
Benzene	65060-11	<0.50	40.1	40.1	40.5	39.0	ug/L	EPA 8260B	10/1/08	101	97.3	3.63	70-130	25
Toluene	65060-11	<0.50	39.5	39.5	38.6	37.4	ug/L	EPA 8260B	10/1/08	97.7	94.6	3.28	70-130	25

Report Number : 65040

QC Report : Laboratory Control Sample (LCS)

Date : 10/03/2008

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	39.8	ug/L	EPA 8260B	10/2/08	105	70-130
Toluene	39.8	ug/L	EPA 8260B	10/2/08	103	70-130
Benzene	40.0	ug/L	EPA 8260B	10/2/08	104	70-130
Toluene	40.0	ug/L	EPA 8260B	10/2/08	104	70-130
Benzene	40.1	ug/L	EPA 8260B	10/1/08	104	70-130
Toluene	40.1	ug/L	EPA 8260B	10/1/08	101	70-130

KIFF Analytical LLC

2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 65040

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Maura Dougherty	California EDF Report? ☑ Yes ☐ No
Company / Address: 2285 Morello Ave., Pleasant Hill, CA 94523	Sampling Company Log Code:
Phone #: 925-602-4710, ext. 41 / Fax #: 925-602-4720	Global ID: T0609900085
Project #: TMTIDE4, 2 / P.O. #:	EDF Deliverable To (Email Address): MDougherty@eticeng.com, eticlabreports@eticeng.com
Project Name: Tidewater	Sampler Signature:
Project Address: 4919 Tidewater Ave. Oakland, CA 94601	

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☒ 1 wk

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Container:	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative:	Preservative:	Matrix: Water	Matrix: Soil	Matrix: Air	Matrix:	Analysis Request: BTEX (EPA 8260B)	Analysis Request: TPH as Diesel with silica gel cleanup (EPA 8015M)	For Lab Use Only
C-5W,20	9.25.08	1800	4						X					X				X	X	01
C-15W,8	"	1645	5						X					X				X	X	02
C-15W,24	"	1740	5						X					X				X	X	03

Relinquished by:	Date	Time	Received by:
[signature]	9/26/08	1200	
	092608	1570	Received by Laboratory: [signature] KIFF Analytical LLC

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
2.4	JC	092608	1740	IR1	(Yes) / No

Distribution: White - Lab; Copy - Originator
Rev: 051805

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Maura Dougherty
ETIC Engineering, Inc
2285 Morello Avenue
Pleasant Hill, CA 94523

Subject : 22 Soil Samples
Project Name : Tidewater
Project Number : TMTIDE4, 2

Dear Ms. Dougherty,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-1,2** Matrix : Soil Lab Number : 64976-01

Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	96.4		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	95.1		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**710**	5.0	mg/Kg	M EPA 8015	10/01/2008
1-Chlorooctadecane (Silica Gel Surr)	93.9		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-1,5** Matrix : Soil Lab Number : 64976-02
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**1.5**	1.0	mg/Kg	M EPA 8015	09/30/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	97.6		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-1,10** Matrix : Soil Lab Number : 64976-03
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	98.6		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**5.8**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	88.0		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-1,15** Matrix : Soil Lab Number : 64976-04
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	97.4		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	94.9		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**5.2**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	94.9		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-1,20** Matrix : Soil Lab Number : 64976-05
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	99.1		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	94.7		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**< 1.0**	1.0	mg/Kg	M EPA 8015	09/30/2008
1-Chlorooctadecane (Silica Gel Surr)	105		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-1,25** Matrix : Soil Lab Number : 64976-07
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	98.0		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**1.9**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	101		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-1,30** Matrix : Soil Lab Number : 64976-08
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	98.0		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**< 1.0**	1.0	mg/Kg	M EPA 8015	10/01/2008
1-Chlorooctadecane (Silica Gel Surr)	107		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-2,2** Matrix : Soil Lab Number : 64976-09
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**0.0082**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**0.021**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**51**	5.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	87.0		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-2,5** Matrix : Soil Lab Number : 64976-10
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	99.9		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	97.9		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**1.4**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	98.1		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-2,10** Matrix : Soil Lab Number : 64976-11
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	97.3		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**5.1**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	72.3		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-2,15** Matrix : Soil Lab Number : 64976-12
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	97.2		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**4.1**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	95.6		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-2,20** Matrix : Soil Lab Number : 64976-13
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	98.0		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**< 1.0**	1.0	mg/Kg	M EPA 8015	09/30/2008
1-Chlorooctadecane (Silica Gel Surr)	96.4		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-3,2** Matrix : Soil Lab Number : 64976-14
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	98.0		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**170**	5.0	mg/Kg	M EPA 8015	10/01/2008
1-Chlorooctadecane (Silica Gel Surr)	88.7		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-3,5** Matrix : Soil Lab Number : 64976-15
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	98.0		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**< 1.0**	1.0	mg/Kg	M EPA 8015	09/30/2008
1-Chlorooctadecane (Silica Gel Surr)	93.4		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-3,10** Matrix : Soil Lab Number : 64976-16
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	97.3		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**4.1**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	71.1		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-3,15** Matrix : Soil Lab Number : 64976-17
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	99.5		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	96.8		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**2.6**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	91.6		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-3,20** Matrix : Soil Lab Number : 64976-18
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	97.2		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**< 1.0**	1.0	mg/Kg	M EPA 8015	09/30/2008
1-Chlorooctadecane (Silica Gel Surr)	99.3		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-4,2** Matrix : Soil Lab Number : 64976-19
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	98.6		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	97.4		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**1.6**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	101		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-4,5** Matrix : Soil Lab Number : 64976-20
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	98.1		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**< 1.0**	1.0	mg/Kg	M EPA 8015	10/01/2008
1-Chlorooctadecane (Silica Gel Surr)	102		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-4,10** Matrix : Soil Lab Number : 64976-21

Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**5.5**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	75.9		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-4,15** Matrix : Soil Lab Number : 64976-22

Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**5.0**	1.0	mg/Kg	M EPA 8015	09/30/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	91.9		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 64976
Date : 10/02/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-4,20** Matrix : Soil Lab Number : 64976-23
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**7.2**	1.0	mg/Kg	M EPA 8015	09/29/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	116		% Recovery	M EPA 8015	09/29/2008

Report Number : 64976

Date : 10/02/2008

QC Report : Method Blank Data

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	09/30/2008
1-Chlorooctadecane (Silica Gel Surr)	95.8		%	M EPA 8015	09/30/2008
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	09/29/2008
1-Chlorooctadecane (Silica Gel Surr)	85.1		%	M EPA 8015	09/29/2008
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	10/01/2008
1-Chlorooctadecane (Silica Gel Surr)	106		%	M EPA 8015	10/01/2008
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/26/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/26/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/26/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/26/2008
1,2-Dichloroethane-d4 (Surr)	98.1		%	EPA 8260B	09/26/2008
Toluene - d8 (Surr)	94.1		%	EPA 8260B	09/26/2008
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	98.1		%	EPA 8260B	09/29/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	100		%	EPA 8260B	09/29/2008

Report Number : 64976

Date : 10/02/2008

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)	65013-01	74	20.0	20.0	87.0	75.1	mg/Kg	M EPA 8015	9/29/08	93.0	80.3	14.7	60-140	25
Benzene	65005-03	<0.0050	0.0397	0.0400	0.0335	0.0338	mg/Kg	EPA 8260B	9/26/08	84.3	84.5	0.167	70-130	25
Toluene	65005-03	<0.0050	0.0391	0.0394	0.0320	0.0323	mg/Kg	EPA 8260B	9/26/08	81.7	82.1	0.523	70-130	25
Benzene	64976-06	<0.0050	0.0398	0.0398	0.0340	0.0340	mg/Kg	EPA 8260B	9/29/08	85.5	85.5	0.0530	70-130	25
Toluene	64976-06	<0.0050	0.0392	0.0392	0.0349	0.0346	mg/Kg	EPA 8260B	9/29/08	88.9	88.2	0.704	70-130	25
Benzene	65002-30	<0.0050	0.0392	0.0390	0.0381	0.0379	mg/Kg	EPA 8260B	9/29/08	97.2	97.3	0.161	70-130	25
Toluene	65002-30	<0.0050	0.0386	0.0384	0.0378	0.0374	mg/Kg	EPA 8260B	9/29/08	97.9	97.4	0.486	70-130	25
TPH-D (Si Gel)	64976-06	<1.0	20.0	20.0	17.0	17.3	mg/Kg	M EPA 8015	9/30/08	85.2	86.5	1.53	60-140	25
TPH-D (Si Gel)	65050-21	150	20.0	20.0	153	148	mg/Kg	M EPA 8015	10/1/08	88.4	85.6	3.26	60-140	25

Report Number : 64976

Date : 10/02/2008

QC Report : Laboratory Control Sample (LCS)

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
TPH-D (Si Gel)	20.0	mg/Kg	M EPA 8015	9/30/08	88.8	70-130
TPH-D (Si Gel)	20.0	mg/Kg	M EPA 8015	9/29/08	85.8	70-130
TPH-D (Si Gel)	20.0	mg/Kg	M EPA 8015	10/1/08	81.0	70-130
Benzene	0.0394	mg/Kg	EPA 8260B	9/26/08	93.2	70-130
Toluene	0.0388	mg/Kg	EPA 8260B	9/26/08	92.7	70-130
Benzene	0.0400	mg/Kg	EPA 8260B	9/29/08	90.4	70-130
Toluene	0.0395	mg/Kg	EPA 8260B	9/29/08	90.9	70-130
Benzene	0.0400	mg/Kg	EPA 8260B	9/29/08	98.2	70-130
Toluene	0.0394	mg/Kg	EPA 8260B	9/29/08	99.3	70-130

KIFF Analytical LLC

2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 64976

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Maura Dougherty	California EDF Report? ☑ Yes ☐ No
Company / Address: 2285 Morello Ave., Pleasant Hill, CA 94523	Sampling Company Log Code:
Phone #: 925-602-4710, ext. 41 / Fax #: 925-602-4720	Global ID: T0609900085
Project #: TMTIDE4, 2 / P.O. #:	EDF Deliverable To (Email Address): MDougherty@eticeng.com, eticlabreports@eticeng.com
Project Name: Tidewater	Sampler Signature:
Project Address: 4919 Tidewater Ave. Oakland, CA 94601	

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☒ 1 wk

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	Analysis Request: BTEX (EPA 8260B)	Analysis Request: TPH as Diesel with silica gel cleanup (EPA 8015M)	Analysis Request: HOLD	For Lab Use Only
C-1, 2	9/24/08	~~0930~~ 0945		X						X		X		X	X		01
C-1, 5		0955		X						X		X		X	X		02
C-1, 10		1003		X						X		X		X	X		03
C-1, 15		1007		X						X		X		X	X		04
C-1, 20		1012		X						X		X		X	X		05
C-1, 22		1016		X						X		X	MG 9/24/08	~~X~~	~~X~~	X	06
C-1, 25		1018		X						X		X		X	X		07
C-1, 30		1025		X						X		X		X	X		08
C-2, 2		1045		X						X		X		X	X		09
C-2, 5		1100		X						X		X		X	X		10

Relinquished by:	Date: 9/24/08	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date: 092408	Time: 1348	Received by Laboratory: Kiff Analytical

Remarks: Please fax copy of C.O.C to Maura, (925) 602-4720

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
1.4	TJB	092408	1608	IR-1	(Yes) / No

Distribution: White - Lab; Copy - Originator
Rev: 051805

KIFF Analytical LLC

2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 64976

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Maura Dougherty	California EDF Report? ☑ Yes ☐ No
Company / Address: 2285 Morello Ave., Pleasant Hill, CA 94523	Sampling Company Log Code:
Phone #: 925-602-4710, ext. 41 / Fax #: 925-602-4720	Global ID: T0609900085
Project #: TMTIDE4, 2 / P.O. #:	EDF Deliverable To (Email Address): MDougherty@eticeng.com, eticlabreports@eticeng.com
Project Name: Tidewater	Sampler Signature:
Project Address: 4919 Tidewater Ave. Oakland, CA 94601	

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	Analysis Request: BTEX (EPA 8260B)	Analysis Request: TPH as Diesel with silica gel cleanup (EPA 8015M)	For Lab Use Only
C-2, 10	9/24/08	1105		X						X		X		X	X	11
C-2, 15		1120		X						X		X		X	X	12
C-2, 20		1130		X						X		X		X	X	13
C-3, 2		0940		X						X		X		X	X	14
C-3, 5		1000		X						X		X		X	X	15
C-3, 10		1005		X						X		X		X	X	16
C-3, 15		1020		X						X		X		X	X	17
C-3, 20		1040		X						X		X		X	X	18
C-4, 2		1145		X						X		X		X	X	19
C-4, 5		1202		X						X		X		X	X	20

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☒ 1 wk

Relinquished by:	Date	Time	Received by:
	9/24/08		
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	092408	1348	Kiff Analytical

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

Distribution: White - Lab; Copy - Originator
Rev: 051805

KIFF Analytical LLC

2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 64976

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Maura Dougherty	California EDF Report? ☑ Yes ☐ No
Company / Address: 2285 Morello Ave., Pleasant Hill, CA 94523	Sampling Company Log Code:
Phone #: 925-602-4710, ext. 41 / Fax #: 925-602-4720	Global ID: T0609900085
Project #: TMTIDE4, 2 / P.O. #:	EDF Deliverable To (Email Address): MDougherty@eticeng.com, eticlabreports@eticeng.com
Project Name: Tidewater	Sampler Signature:
Project Address: 4919 Tidewater Ave. Oakland, CA 94601	

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☒ 1 wk

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	Analysis Request: BTEX (EPA 8260B)	Analysis Request: TPH as Diesel with silica gel cleanup (EPA 8015M)	For Lab Use Only
C-4, 10	9/24/08	1208		X						X		X		X	X	21
C-4, 15	"	1230		X						X		X		X	X	22
C-4, 20	↓	1244		X						X		X		X	X	23

Relinquished by:	Date	Time	Received by:
	9/24/08		
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	092408	1348	Kiff Analytical

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

Distribution: White - Lab; Copy - Originator
Rev: 051805

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Maura Dougherty
ETIC Engineering, Inc
2285 Morello Avenue
Pleasant Hill, CA 94523

Subject : 55 Soil Samples
Project Name : Tidewater
Project Number : TMTIDE4, 2

Dear Ms. Dougherty,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Subject : 55 Soil Samples
Project Name : Tidewater
Project Number : TMTIDE4, 2

Case Narrative

Surrogate Recovery for sample C-8,10 and C-5,10 for test method Mod. EPA 8015 was outside of control limits. This may indicate a bias in the analysis due to the sample's matrix or an interference from compounds present in the sample.

Matrix Spike/Matrix Spike Duplicate results associated with sample C-5,10 for the analyte TPH as Diesel (Silica Gel) were outside of control limits. This may indicate a bias for the sample that was spiked. Since the LCS recoveries were within control limits, no data are flagged.

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-6,2** Matrix : Soil Lab Number : 65013-01
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	109		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**74**	2.0	mg/Kg	M EPA 8015	09/29/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	73.1		% Recovery	M EPA 8015	09/29/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-6,5** Matrix : Soil Lab Number : 65013-02

Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/28/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/28/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/28/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/28/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/28/2008
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	09/28/2008
TPH as Diesel (Silica Gel)	**2600**	5.0	mg/Kg	M EPA 8015	09/30/2008
1-Chlorooctadecane (Silica Gel Surr)	116		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-6,10** Matrix : Soil Lab Number : 65013-03
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**8.8**	1.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	86.6		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-6,15** Matrix : Soil Lab Number : 65013-04

Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	109		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**5.3**	1.0	mg/Kg	M EPA 8015	09/30/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	100		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 65013

Date : 10/06/2008

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Sample : **C-6,20**

Matrix : Soil

Lab Number : 65013-05

Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**7.4**	1.0	mg/Kg	M EPA 8015	09/29/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	104		% Recovery	M EPA 8015	09/29/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-7,2.5** Matrix : Soil Lab Number : 65013-06

Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	99.3		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**520**	1.0	mg/Kg	M EPA 8015	09/29/2008
1-Chlorooctadecane (Silica Gel Surr)	109		% Recovery	M EPA 8015	09/29/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-7,5** Matrix : Soil Lab Number : 65013-07

Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**0.0061**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**0.0070**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**3500**	10	mg/Kg	M EPA 8015	09/30/2008
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-7,10** Matrix : Soil Lab Number : 65013-08

Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	109		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**8.2**	1.0	mg/Kg	M EPA 8015	09/30/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	97.3		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-7,15** Matrix : Soil Lab Number : 65013-09

Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**8.9**	1.0	mg/Kg	M EPA 8015	09/29/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	104		% Recovery	M EPA 8015	09/29/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-7,19.5** Matrix : Soil Lab Number : 65013-10

Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**10**	1.0	mg/Kg	M EPA 8015	09/30/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	92.2		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-7,25** Matrix : Soil Lab Number : 65013-11
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	109		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**< 1.0**	1.0	mg/Kg	M EPA 8015	09/29/2008
1-Chlorooctadecane (Silica Gel Surr)	105		% Recovery	M EPA 8015	09/29/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-7,30** Matrix : Soil Lab Number : 65013-12
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**4.7**	1.0	mg/Kg	M EPA 8015	09/29/2008
1-Chlorooctadecane (Silica Gel Surr)	111		% Recovery	M EPA 8015	09/29/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-10,2** Matrix : Soil Lab Number : 65013-13

Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**160**	1.0	mg/Kg	M EPA 8015	09/29/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	99.0		% Recovery	M EPA 8015	09/29/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-10,5** Matrix : Soil Lab Number : 65013-14
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**23**	1.0	mg/Kg	M EPA 8015	09/29/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	104		% Recovery	M EPA 8015	09/29/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-10,10** Matrix : Soil Lab Number : 65013-15
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**9.1**	1.0	mg/Kg	M EPA 8015	09/29/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	90.5		% Recovery	M EPA 8015	09/29/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-10,20** Matrix : Soil Lab Number : 65013-16
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	99.1		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**7.0**	1.0	mg/Kg	M EPA 8015	09/29/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	109		% Recovery	M EPA 8015	09/29/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-11,5** Matrix : Soil Lab Number : 65013-17
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**320**	5.0	mg/Kg	M EPA 8015	09/30/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	73.7		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-11,10** Matrix : Soil Lab Number : 65013-18
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**9.0**	1.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	102		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-11,20** Matrix : Soil Lab Number : 65013-19
Sample Date :09/24/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**3.7**	1.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	96.4		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-9,5** Matrix : Soil Lab Number : 65013-20

Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/28/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/28/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/28/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/28/2008
1,2-Dichloroethane-d4 (Surr)	99.8		% Recovery	EPA 8260B	09/28/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	09/28/2008
TPH as Diesel (Silica Gel)	**2400**	10	mg/Kg	M EPA 8015	10/02/2008
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-9,10** Matrix : Soil Lab Number : 65013-21

Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	111		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	106		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**310**	5.0	mg/Kg	M EPA 8015	10/02/2008
1-Chlorooctadecane (Silica Gel Surr)	103		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-9,15** Matrix : Soil Lab Number : 65013-22
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**5.4**	1.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	113		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-9,20** Matrix : Soil Lab Number : 65013-23
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**9.0**	1.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	108		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-14,2.5** Matrix : Soil Lab Number : 65013-24
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	99.6		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**300**	10	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-14,5** Matrix : Soil Lab Number : 65013-25
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**6.2**	1.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	109		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-14,10** Matrix : Soil Lab Number : 65013-26
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**9.0**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	96.6		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-14,15** Matrix : Soil Lab Number : 65013-27

Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	99.5		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	93.2		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**10**	1.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	110		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-14,20** Matrix : Soil Lab Number : 65013-28
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	93.6		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**7.2**	1.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	116		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-16,2.5** Matrix : Soil Lab Number : 65013-29
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	95.6		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	92.3		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**200**	10	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-16,6** Matrix : Soil Lab Number : 65013-30
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	94.0		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**3100**	20	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-16,12** Matrix : Soil Lab Number : 65013-31
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	99.2		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	92.3		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**54**	5.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	70.7		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-16,16** Matrix : Soil Lab Number : 65013-32
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	96.1		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	92.6		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**11**	1.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	102		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-16,20** Matrix : Soil Lab Number : 65013-33
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	95.0		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	93.2		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**7.0**	1.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	111		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-13,2.5** Matrix : Soil Lab Number : 65013-34
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	98.3		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	92.8		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**370**	20	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-13,5** Matrix : Soil Lab Number : 65013-35
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**4.9**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	101		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-13,10** Matrix : Soil Lab Number : 65013-36

Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**4.7**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	102		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-13,15** Matrix : Soil Lab Number : 65013-37

Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**5.7**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	100		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-13,20** Matrix : Soil Lab Number : 65013-38
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/28/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/28/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/28/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/28/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/28/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/28/2008
TPH as Diesel (Silica Gel)	**4.0**	1.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	104		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-8,2.5** Matrix : Soil Lab Number : 65013-39

Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.014**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**0.015**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**0.066**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**160**	10	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-8,5** Matrix : Soil Lab Number : 65013-40

Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	98.6		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	97.2		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	**210**	1.0	mg/Kg	M EPA 8015	10/01/2008
1-Chlorooctadecane (Silica Gel Surr)	91.9		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-8,10** Matrix : Soil Lab Number : 65013-41

Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	91.9		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**8.3**	1.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	30.5		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-8,15** Matrix : Soil Lab Number : 65013-42
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	94.7		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**13**	1.0	mg/Kg	M EPA 8015	10/02/2008
1-Chlorooctadecane (Silica Gel Surr)	114		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-8,20** Matrix : Soil Lab Number : 65013-43

Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	93.0		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**8.8**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	106		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-5,2.5** Matrix : Soil Lab Number : 65013-44

Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	97.7		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**220**	20	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-5,5** Matrix : Soil Lab Number : 65013-45
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	98.9		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	93.1		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**190**	5.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	72.2		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-5,10** Matrix : Soil Lab Number : 65013-46
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	93.5		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**9.3**	1.5	mg/Kg	M EPA 8015	10/03/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	63.8		% Recovery	M EPA 8015	10/03/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-5,15** Matrix : Soil Lab Number : 65013-47
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	93.9		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**4.3**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	87.8		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-5,20** Matrix : Soil Lab Number : 65013-48
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	98.3		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	94.0		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**3.0**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	98.7		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-12,2.5** Matrix : Soil Lab Number : 65013-49
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	**0.0058**	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	90.5		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	**1500**	50	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-12,5** Matrix : Soil Lab Number : 65013-50
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	93.4		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**14**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	107		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-12,10** Matrix : Soil Lab Number : 65013-51
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	92.9		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**5.7**	1.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	74.7		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-12,15** Matrix : Soil Lab Number : 65013-52
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	99.1		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	93.4		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**6.0**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	89.8		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-12,20** Matrix : Soil Lab Number : 65013-53
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	97.3		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	93.5		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**2.1**	1.0	mg/Kg	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	114		% Recovery	M EPA 8015	10/01/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-12,25** Matrix : Soil Lab Number : 65013-54
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	94.2		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**< 1.0**	1.0	mg/Kg	M EPA 8015	09/30/2008
1-Chlorooctadecane (Silica Gel Surr)	103		% Recovery	M EPA 8015	09/30/2008

KIFF Analytical LLC

Report Number : 65013
Date : 10/06/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-12,30** Matrix : Soil Lab Number : 65013-55
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	94.6		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**< 1.0**	1.0	mg/Kg	M EPA 8015	09/30/2008
1-Chlorooctadecane (Silica Gel Surr)	99.7		% Recovery	M EPA 8015	09/30/2008

Report Number : 65013

Date : 10/06/2008

QC Report : Method Blank Data

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	09/29/2008
1-Chlorooctadecane (Silica Gel Surr)	85.1		%	M EPA 8015	09/29/2008
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	09/30/2008
1-Chlorooctadecane (Silica Gel Surr)	102		%	M EPA 8015	09/30/2008
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	09/30/2008
1-Chlorooctadecane (Silica Gel Surr)	94.4		%	M EPA 8015	09/30/2008
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	10/02/2008
1-Chlorooctadecane (Silica Gel Surr)	93.0		%	M EPA 8015	10/02/2008
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	108		%	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	100		%	EPA 8260B	09/27/2008
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/27/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/27/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/27/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	96.8		%	EPA 8260B	09/27/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	106		%	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	99.9		%	EPA 8260B	09/29/2008
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	100		%	EPA 8260B	09/29/2008

Report Number : 65013

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 10/06/2008

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)	65013-01	74	20.0	20.0	87.0	75.1	mg/Kg	M EPA 8015	9/29/08	93.0	80.3	14.7	60-140	25
TPH-D (Si Gel)	65013-19	4.4	20.0	20.0	21.8	21.3	mg/Kg	M EPA 8015	9/30/08	89.1	87.1	2.29	60-140	25
TPH-D (Si Gel)	65002-05	<1.0	20.0	20.0	17.8	17.5	mg/Kg	M EPA 8015	9/30/08	88.8	87.6	1.31	60-140	25
TPH-D (Si Gel)	65030-08	9.6	20.0	20.0	23.2	31.5	mg/Kg	M EPA 8015	10/2/08	78.1	106	30.4	60-140	25
Benzene	65013-12	<0.0050	0.0400	0.0391	0.0343	0.0337	mg/Kg	EPA 8260B	9/27/08	85.8	86.2	0.471	70-130	25
Toluene	65013-12	<0.0050	0.0394	0.0385	0.0336	0.0332	mg/Kg	EPA 8260B	9/27/08	85.4	86.0	0.795	70-130	25
Benzene	65013-40	<0.0050	0.0394	0.0376	0.0332	0.0350	mg/Kg	EPA 8260B	9/27/08	84.3	93.1	9.88	70-130	25
Toluene	65013-40	<0.0050	0.0388	0.0370	0.0303	0.0329	mg/Kg	EPA 8260B	9/27/08	77.9	88.8	13.0	70-130	25
Benzene	65013-44	<0.0050	0.0398	0.0400	0.0325	0.0336	mg/Kg	EPA 8260B	9/29/08	81.6	83.8	2.60	70-130	25
Toluene	65013-44	<0.0050	0.0392	0.0395	0.0315	0.0322	mg/Kg	EPA 8260B	9/29/08	80.2	81.5	1.57	70-130	25
Benzene	65002-30	<0.0050	0.0392	0.0390	0.0381	0.0379	mg/Kg	EPA 8260B	9/29/08	97.2	97.3	0.161	70-130	25
Toluene	65002-30	<0.0050	0.0386	0.0384	0.0378	0.0374	mg/Kg	EPA 8260B	9/29/08	97.9	97.4	0.486	70-130	25

Report Number : 65013

QC Report : Laboratory Control Sample (LCS)

Date : 10/06/2008

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
TPH-D (Si Gel)	20.0	mg/Kg	M EPA 8015	9/29/08	85.8	70-130
TPH-D (Si Gel)	20.0	mg/Kg	M EPA 8015	9/30/08	80.9	70-130
TPH-D (Si Gel)	20.0	mg/Kg	M EPA 8015	9/30/08	82.0	70-130
TPH-D (Si Gel)	20.0	mg/Kg	M EPA 8015	10/2/08	82.4	70-130
Benzene	0.0379	mg/Kg	EPA 8260B	9/27/08	92.2	70-130
Toluene	0.0373	mg/Kg	EPA 8260B	9/27/08	92.5	70-130
Benzene	0.0373	mg/Kg	EPA 8260B	9/27/08	94.6	70-130
Toluene	0.0368	mg/Kg	EPA 8260B	9/27/08	92.2	70-130
Benzene	0.0400	mg/Kg	EPA 8260B	9/29/08	85.2	70-130
Toluene	0.0395	mg/Kg	EPA 8260B	9/29/08	87.4	70-130
Benzene	0.0400	mg/Kg	EPA 8260B	9/29/08	98.2	70-130
Toluene	0.0394	mg/Kg	EPA 8260B	9/29/08	99.3	70-130

KIFF Analytical LLC

2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 65013

ND

Page 1 of 6

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Maura Dougherty	California EDF Report? ☑ Yes ☐ No
Company / Address: 2285 Morello Ave., Pleasant Hill, CA 94523	Sampling Company Log Code:
Phone #: 925-602-4710, ext. 41 / Fax #: 925-602-4720	Global ID: T0609900085
Project #: TMTIDE4, 2 / P.O. #:	EDF Deliverable To (Email Address): MDougherty@eticeng.com, eticlabreports@eticeng.com
Project Name: Tidewater	Sampler Signature:
Project Address: 4919 Tidewater Ave. Oakland, CA 94601	

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	Analysis Request: BTEX (EPA 8260B)	Analysis Request: TPH as Diesel with silica gel cleanup (EPA 8015M)	For Lab Use Only
C-6, 2	9/24/50	1150		X						X		X		X	X	01
C-6, 5		1200		X						X		X		X	X	02
C-6, 10		1206		X						X		X		X	X	03
C-6, 15		1211		X						X		X		X	X	04
C-6, 20		1220		X						X		X		X	X	05
C-7, 2.5		1430		X						X		X		X	X	06
C-7, 5		1436		X						X		X		X	X	07
C-7, 10		1505		X						X		X		X	X	08
C-7, 15		1510		X						X		X		X	X	09
C-7, 19.5		1515		X						X		X		X	X	10

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☒ 1 wk

Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date: 092508	Time: 1709	Received by Laboratory: Kiff Analytical

Remarks: Please fax copy of C.O.C. to Maura, (925) 602-4720

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
2.4	LJR	092508	2010	IR-1	(Yes) / No

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Rev: 051805

KIFF Analytical LLC

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Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 65013

Page 2 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Maura Dougherty	California EDF Report? ☑ Yes ☐ No
Company / Address: 2285 Morello Ave., Pleasant Hill, CA 94523	Sampling Company Log Code:
Phone #: 925-602-4710, ext. 41 / Fax #: 925-602-4720	Global ID: T0609900085
Project #: TMTIDE4, 2 / P.O. #:	EDF Deliverable To (Email Address): MDougherty@eticeng.com, eticlabreports@eticeng.com
Project Name: Tidewater	Sampler Signature:
Project Address: 4919 Tidewater Ave. Oakland, CA 94601	

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☒ 1 wk

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	Analysis Request: BTEX (EPA 8260B)	Analysis Request: TPH as Diesel with silica gel cleanup (EPA 8015M)	For Lab Use Only
C-7, 25	9/24/08	1519		X						X		X		X	X	11
C-7, 30		1522		X						X		X		X	X	12
C-10, 2		1500		X						X		X		X	X	13
C-10, 5		1515		X						X		X		X	X	14
C-10, 10		1535		X						X		X		X	X	15
C-10, 20		1545		X						X		X		X	X	16
C-11, 5		1255		X						X		X		X	X	17
C-11, 10		1415		X						X		X		X	X	18
C-11, 20		1432 ND		X						X		X		X	X	19
C-9, 5	9/25/08	754		X						X		X		X	X	20

Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	092508	1709	Kiff Analytical

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

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Rev: 051805

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Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 65013

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Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Maura Dougherty	California EDF Report? ☑ Yes ☐ No
Company / Address: 2285 Morello Ave., Pleasant Hill, CA 94523	Sampling Company Log Code:
Phone #: 925-602-4710, ext. 41 / Fax #: 925-602-4720	Global ID: T0609900085
Project #: TMTIDE4, 2 / P.O. #:	EDF Deliverable To (Email Address): MDougherty@eticeng.com, eticlabreports@eticeng.com
Project Name: Tidewater	Sampler Signature: Maura Dougherty
Project Address: 4919 Tidewater Ave. Oakland, CA 94601	

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	Analysis Request: BTEX (EPA 8260B)	Analysis Request: TPH as Diesel with silica gel cleanup (EPA 8015M)	TAT	For Lab Use Only
C-9, 10	9/25/08	0824		X						X		X		X	X		21
C-9, 15	9/25/08	0830		X						X		X		X	X		22
C-9, 20	"	0838		X						X		X		X	X		23
C-14, 2.5	"	1006		X						X		X		X	X		24
C-14, 5	"	1014		X						X		X		X	X		25
C-14, 10	"	1056		X						X		X		X	X		26
C-14, 15	"	1105		X						X		X		X	X		27
C-14, 20	"	1108		X						X		X		X	X		28
C-16, 2.5	"	0906		X						X		X		X	X		29
C-16, 6	"	0928		X						X		X		X	X		30

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☒ 1 wk

Relinquished by:	Date	Time	Received by:
Maura Dougherty			
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	092508	1709	Kiff Analytical

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

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Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 65013

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Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Maura Dougherty	California EDF Report? ☑ Yes ☐ No
Company / Address: 2285 Morello Ave., Pleasant Hill, CA 94523	Sampling Company Log Code:
Phone #: 925-602-4710, ext. 41 / Fax #: 925-602-4720	Global ID: T0609900085
Project #: TMTIDE4, 2 / P.O. #:	EDF Deliverable To (Email Address): MDougherty@eticeng.com, etlclabreports@eticeng.com
Project Name: Tidewater	Sampler Signature:
Project Address: 4919 Tidewater Ave. Oakland, CA 94601	

Analysis Request: BTEX (EPA 8260B); TPH as Diesel with silica gel cleanup (EPA 8015M)

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☒ 1 wk

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	BTEX (EPA 8260B)	TPH as Diesel with silica gel cleanup (EPA 8015M)	For Lab Use Only
C-16, 12	9/25/08	942		X						X		X		X	X	31
C-16, 16		0947		X						X		X		X	X	32
C-16, 20		0951		X						X		X		X	X	33
C-13, 2.5		1030		X						X		X		X	X	34
C-13, 5		1036		X						X		X		X	X	35
C-13, 10		1144		X						X		X		X	X	36
C-13, 15		1150		X						X		X		X	X	37
C-13, 20		1156		X						X		X		X	X	38
C-8, 2.5		1330		X						X		X		X	X	39
C-8, 5		1334		X						X		X		X	X	40

Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date 092508	Time 1709	Received by Laboratory: KIFF Analytical

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

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Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Maura Dougherty	California EDF Report? ☑ Yes ☐ No
Company / Address: 2285 Morello Ave., Pleasant Hill, CA 94523	Sampling Company Log Code:
Phone #: 925-602-4710, ext. 41 / Fax #: 925-602-4720	Global ID: T0609900085
Project #: TMTIDE4, 2 / P.O. #:	EDF Deliverable To (Email Address): MDougherty@eticeng.com, eticlabreports@eticeng.com
Project Name: Tidewater	Sampler Signature:
Project Address: 4919 Tidewater Ave. Oakland, CA 94601	

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☒ 1 wk

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	Analysis Request: BTEX (EPA 8260B)	Analysis Request: TPH as Diesel with silica gel cleanup (EPA 8015M)	For Lab Use Only
C-8, 10	9/25/08	1343		X						X		X		X	X	41
C-8, 15		1352		X						X		X		X	X	42
C-8, 20		1358		X						X		X		X	X	43
C-5, 2.5		1420		X						X		X		X	X	44
C-5, 5		1425		X						X		X		X	X	45
C-5, 10		1433		X						X		X		X	X	46
C-5, 15		1443		X						X		X		X	X	47
C-5, 20		1448		X						X		X		X	X	48
C-12, 2.5		1516		X						X		X		X	X	49
C-12, 5		1520		X						X		X		X	X	50

Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	092508	1709	Kiff Analytical

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

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Rev: 051805

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SRG # / Lab No. 65013

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Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Maura Dougherty	California EDF Report? ☑ Yes ☐ No
Company / Address: 2285 Morello Ave., Pleasant Hill, CA 94523	Sampling Company Log Code:
Phone #: 925-602-4710, ext. 41 / Fax #: 925-602-4720	Global ID: T0609900085
Project #: TMTIDE4, 2 / P.O. #:	EDF Deliverable To (Email Address): MDougherty@eticeng.com, eticlabreports@eticeng.com
Project Name: Tidewater	Sampler Signature:
Project Address: 4919 Tidewater Ave. Oakland, CA 94601	

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☒ 1 wk

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	Analysis Request: BTEX (EPA 8260B)	Analysis Request: TPH as Diesel with silica gel cleanup (EPA 8015M)	For Lab Use Only
C-12,10	9.25.08	1524		X						X		X		X	X	S1
C-12,15		1527		X						X		X		X	X	S2
C-12,20		1530		X						X		X		X	X	S3
C-12,25		1600		X						X		X		X	X	S4
C-12,30		1605		X						X		X		X	X	S5

Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
	092508	1709	Kiff Analytical

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

Distribution: White - Lab; Copy - Originator
Rev: 051805

KIFF Analytical LLC

Report Number : 65041
Date : 10/03/2008

Maura Dougherty
ETIC Engineering, Inc
2285 Morello Avenue
Pleasant Hill, CA 94523

Subject : 6 Soil Samples
Project Name : Tidewater
Project Number : TMTIDE4, 2

Dear Ms. Dougherty,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 65041
Date : 10/03/2008

Subject : 6 Soil Samples
Project Name : Tidewater
Project Number : TMTIDE4, 2

Case Narrative

Matrix Spike/Matrix Spike Duplicate results associated with samples C-15,2, C-15,5, C-15,10, C-15,15, C-15,20, and C-15,24 for the analyte Benzene were outside of control limits. This may indicate a bias for the sample that was spiked. Since the LCS recoveries were within control limits, no data are flagged.

Matrix Spike/Matrix Spike Duplicate results associated with samples C-15,2, C-15,5, C-15,10, C-15,15, C-15,20, and C-15,24 for the analyte Toluene were affected by the analyte concentrations already present in the un-spiked sample.

KIFF Analytical LLC

Report Number : 65041
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-15,2** Matrix : Soil Lab Number : 65041-01
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/30/2008
TPH as Diesel (Silica Gel)	**46**	5.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	92.2		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65041
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-15,5** Matrix : Soil Lab Number : 65041-02
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	**380**	10	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65041
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-15,10** Matrix : Soil Lab Number : 65041-03
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	**7.4**	1.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	102		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65041
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-15,15** Matrix : Soil Lab Number : 65041-04
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	**5.0**	1.0	mg/Kg	M EPA 8015	10/03/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	116		% Recovery	M EPA 8015	10/03/2008

KIFF Analytical LLC

Report Number : 65041
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-15,20** Matrix : Soil Lab Number : 65041-05
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	**8.6**	1.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	118		% Recovery	M EPA 8015	10/02/2008

KIFF Analytical LLC

Report Number : 65041
Date : 10/03/2008

Project Name : **Tidewater**
Project Number : **TMTIDE4, 2**

Sample : **C-15,24** Matrix : Soil Lab Number : 65041-06
Sample Date :09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	**1.3**	1.0	mg/Kg	M EPA 8015	10/02/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
1-Chlorooctadecane (Silica Gel Surr)	112		% Recovery	M EPA 8015	10/02/2008

Report Number : 65041

Date : 10/03/2008

QC Report : Method Blank Data

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	10/01/2008
1-Chlorooctadecane (Silica Gel Surr)	106		%	M EPA 8015	10/01/2008
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	92.3		%	EPA 8260B	09/30/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 65041

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 10/03/2008

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	65050-21	0.014	0.0398	0.0400	0.0445	0.0413	mg/Kg	EPA 8260B	9/30/08	77.1	68.7	11.5	70-130	25
Toluene	65050-21	0.14	0.0392	0.0394	0.190	0.171	mg/Kg	EPA 8260B	9/30/08	136	85.8	45.5	70-130	25
TPH-D (Si Gel)	65050-21	150	20.0	20.0	153	148	mg/Kg	M EPA 8015	10/1/08	88.4	85.6	3.26	60-140	25

Report Number : 65041

QC Report : Laboratory Control Sample (LCS)

Date : 10/03/2008

Project Name : **Tidewater**

Project Number : **TMTIDE4, 2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
TPH-D (Si Gel)	20.0	mg/Kg	M EPA 8015	10/1/08	81.0	70-130
Benzene	0.0394	mg/Kg	EPA 8260B	9/30/08	88.4	70-130
Toluene	0.0388	mg/Kg	EPA 8260B	9/30/08	89.0	70-130

KIFF Analytical LLC

Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 65041

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Maura Dougherty	California EDF Report? ☑ Yes ☐ No
Company / Address: 2285 Morello Ave., Pleasant Hill, CA 94523	Sampling Company Log Code:
Phone #: 925-602-4710, ext. 41 / Fax #: 925-602-4720	Global ID: T0609900085
Project #: TMTIDE4, 2 / P.O. #:	EDF Deliverable To (Email Address): MDougherty@eticeng.com, eticlabreports@eticeng.com
Project Name: Tidewater	Sampler Signature:
Project Address: 4919 Tidewater Ave. Oakland, CA 94601	

Analysis Request: BTEX (EPA 8260B); TPH as Diesel with silica gel cleanup (EPA 8015M)

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☒ 1 wk

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	BTEX (EPA 8260B)	TPH as Diesel with silica gel cleanup (EPA 8015M)	For Lab Use Only
C-15,2	9.25.05	1636		X						X		X		X	X	01
C-15,5	↓	1645		X						X		X		X	X	02
C-15,10		1656		X						X		X		X	X	03
C-15,15		1700		X						X		X		X	X	04
C-15,20		1707		X						X		X		X	X	05
C-15,24	↓	1720		X						X		X		X	X	06

Relinquished by:	Date: 9/26/05	Time: 1200	Received by:	
Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date: 092608	Time: 1570	Received by Laboratory:	

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
2.4	JSC	092608	1740	IR1	(Yes) / No

Distribution: White - Lab; Copy - Originator
Rev: 051805