Environmental

3280 Brookshire Drive, Rocklin, CA 95677 Tel: (916) 415-1134, FAX :(916) 415-1154

August 27, 2007

Mr. Jeff Baker
Tesoro Environmental Resources Company
3450 S. 344th Way, Suite 100
Auburn, Washington 98001

Subject: *Monitoring Well MW-12 and Soil Borings DP-1 through DP-3 Installation Report*
Tesoro Station No. 67107
(Former Beacon Station No. 3721)
44 Lewelling Boulevard
San Lorenzo, California
RDM Project No. 02-67107

Dear Mr. Baker:

RDM Environmental, Inc. (RDM) has been authorized by Tesoro Environmental Resources Company (Tesoro), to install monitoring well MW-12 and advance soil borings DP-1 through DP-3 at the subject site. The location of the site is presented in Figure 1, and a detailed site map with well locations is included as Figure 2.

The well installation was conducted in accordance with the RDM approved work plan entitled *Monitoring Well Installation Work Plan* dated November 19, 2006. The work plan was verbally approved by Mr. Jerry Wickham of the Alameda County Health Care Services Agency. Copies of the Alameda County Public Works Agency Well Permits are included in Enclosure A. The soil borings and monitoring well were installed in the parking area of an off-site apartment complex located at 15814 Via Granada.

Soil Borings

On June 25, 2007, a RDM representative observed Woodward Drilling Company of Rio Vista, California use a PowerProbe Model 9630 truck-mounted hydraulic-push/hollow-stem auger rig to advance three soil borings (DP-1 through DP-3) and install one 2-inch diameter monitoring well (MW-12). The locations of the soil borings and newly installed monitoring well are illustrated in Figure 2. Field methods and procedures used during soil boring activities, sampling, and monitoring well installation are summarized in Enclosure B.

Soil borings DP-1 through DP-3 were each advanced to a depth of 40 feet below surface grade (bsg). Monitoring well MW-12 was completed to a depth of approximately 30 feet bsg.

Due to the proximity of monitoring well MW-12 to soil boring DP-1, the boring log for monitoring well MW-12 was not logged. Soil borings DP-1 trough DP-3 were continuously logged using the Unified Soil Classification System visual manual method and the results are recorded on the soil boring logs included in Enclosure C.

Soil samples were collected at approximately four-foot intervals and screened for the presence of petroleum hydrocarbon vapors using a photoionization detector (PID). A total of nine of the soil samples were submitted to the laboratory for analysis. The soil samples chosen for laboratory analysis were based on PID field readings, changes in soil lithology, and correlation with other soil borings.

Soil Sample Analytical Results

The soil samples were submitted to Kiff Analytical LLC, (Kiff) for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPHg) as gasoline, methyl-t-butyl ether (MTBE), diisopropyl ether (DIPE), ethyl-t-butyl ether (ETBE), tert-amyl methyl ether (TAME), and tert-butanol (TBA) using EPA Method 8260B.

The soil analytical results from soil borings DP-1 through DP-3 indicated that BTEX, MTBE, DIPE, ETBE, TAME and TBA were not reported in any of the soil samples submitted for analysis. TPHg was reported at low levels (8.5 to 1.2 mg/kg) in the soil samples collected from DP-1 at 24 and 28 feet bsg, and in DP-3 at 24.5 feet bsg (8.3 mg/kg). The soil sample analytical results are summarized in Table 1. A copy of the laboratory analytical report including chain-of-custody documentation is included in Enclosure D.

Soil Stockpile

Three 55-gallon drums of soil were generated as a result of the drilling activities. The soil was stored on-site, at the Tesoro station, pending review of laboratory analytical results and evaluation of disposal options. One composite soil sample was collected from the stockpile and submitted to Kiff for analysis of BTEX, TPHg, MTBE, DIPE, ETBE, TAME and TBA by EPA Method 8260B, and for total lead by EPA Method 6010B. Laboratory analytical results reported the soil sample to be below the laboratory's reporting limits for all analytes except total lead at 7.42 mg/kg. The stockpile soil sample analytical results are summarized in Table 1. A copy of the laboratory analytical report including chain-of-custody documentation is included as Enclosure D. Based on the stockpile soil sample analytical results: the soil stockpile will be hauled off-site to an appropriately-licensed, Tesoro-approved disposal facility.

Well Installation

Monitoring well MW-12 was constructed of 2-inch diameter flush threaded Schedule 40 PVC casing to a total depth of 30 feet bsg. The well was screened over the lower most 20 feet with 0.02"-slotted casing, and the annular space was filled with No. 3 Silica Resources Inc. sand to approximately 1-foot above the screen section. A 1-foot thick bentonite seal was emplaced above the filter pack and the remaining annulus was filled with neat cement to within 1-foot of the surface grade. The wellhead was secured within an 8-inch diameter, steel, traffic-rated well box. Well construction details are included in Enclosure C.

The newly installed monitoring well was developed on July 5, 2007 and an initial groundwater sample was collected from the well immediately following development.

Groundwater Sample Analytical Results

The groundwater sample was submitted to Kiff Laboratory for analysis of BTEX, TPHg, MTBE, DIPE, ETBE, TAME, and TBA using EPA Method 8260B. Laboratory analytical results reported TPHg at 480 micrograms per liter (µg/L); the other analytes were below the laboratory's reporting limits. The groundwater sample analytical results are summarized in Table 2. A copy of the laboratory analytical report including chain-of-custody documentation is included in Enclosure E.

Recommendations

Since BTEX, MTBE, DIPE, ETBE, TAME, and TBA were not reported in the groundwater sample collected from MW-12, but TPHg was reported at a concentration of 480 µg/L, RDM recommends quarterly groundwater sampling of monitoring well MW-12 beginning with the third quarter 2007 event. The necessity for additional assessment down gradient of monitoring well MW-12 will be evaluated following completion of four quarters of sampling.

Remarks/Signatures

The interpretations contained in this document represent our professional opinions, and are based in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If you have any questions regarding this project, please contact Richard Munsch at (916) 415-1134.

Sincerely,

RDM ENVIRONMENTAL, INC.

Richard D. Munsch
Project Manager

Michael G. Lee, P.E.
California Registered Civil Engineer No. C055795

RDM (MW-12 and DP-1 thru DP-3 Installation Report 6-26-07.doc)
Enclosures

cc: Mr. Jerry T. Wickham– Alameda County Environmental Health
Mr. Steven Ritchie – Regional Water Quality Control Board

TABLE 1
Soil Sample Analytical Results

Tesoro Station No. 67107 (former Beacon Station No. 3721)
44 Lewelling Boulevard
San Lorenzo, California

Sample ID	Date	Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	TPH as gasoline (mg/kg)	Fuel Oxygenates (mg/kg)	Total Lead (mg/kg)
Soil Borings									
DP-1-24'	06/25/07	24	<0.0050	<0.0050	<0.0050	<0.0050	8.5	<0.0050	NA
DP-1-28'	06/25/07	28	<0.0050	<0.0050	<0.0050	<0.0050	1.2	<0.0050	NA
DP-1-36'	06/25/07	36	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	NA
DP-1-40'	06/25/07	40	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	NA
DP-2-16'	06/25/07	16	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	NA
DP-2-24'	06/25/07	24	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	NA
DP-3-24.5'	06/26/07	24.5	<0.0050	<0.0050	<0.0050	<0.0050	8.3	<0.0050	NA
DP-3-28'	06/26/07	28	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	NA
DP-3-36'	06/26/07	36	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	NA
Soil Stockpile (Drill Cuttings)									
SP-1a,b	06/26/07	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	7.42

TABLE 2

Groundwater Sample Analytical Results

Tesoro Station No. 67107 (former beacon StatinNo. 3721)
44 Lewelling Boulevard
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE[a] (µg/L)	Oxygenates[b,c] (µg/L)	Comments
MW-1	07/05/07	NM	NM	NC	<0.50	<0.50	<0.50	<0.50	480	<0.50	<0.50/<5.0[d]	No free product or sheen

a MTBE by EPA Method 8260.

b Constituents by EPA Method 8260.

c Oxygenates = diisopropyl ether, ethyl-t-butyl ether, tert-amyl methyl ether, tert-butanol

d Tert-Butanol

Top of Riser Elevations = Elevations surveyed relative to mean sea level.

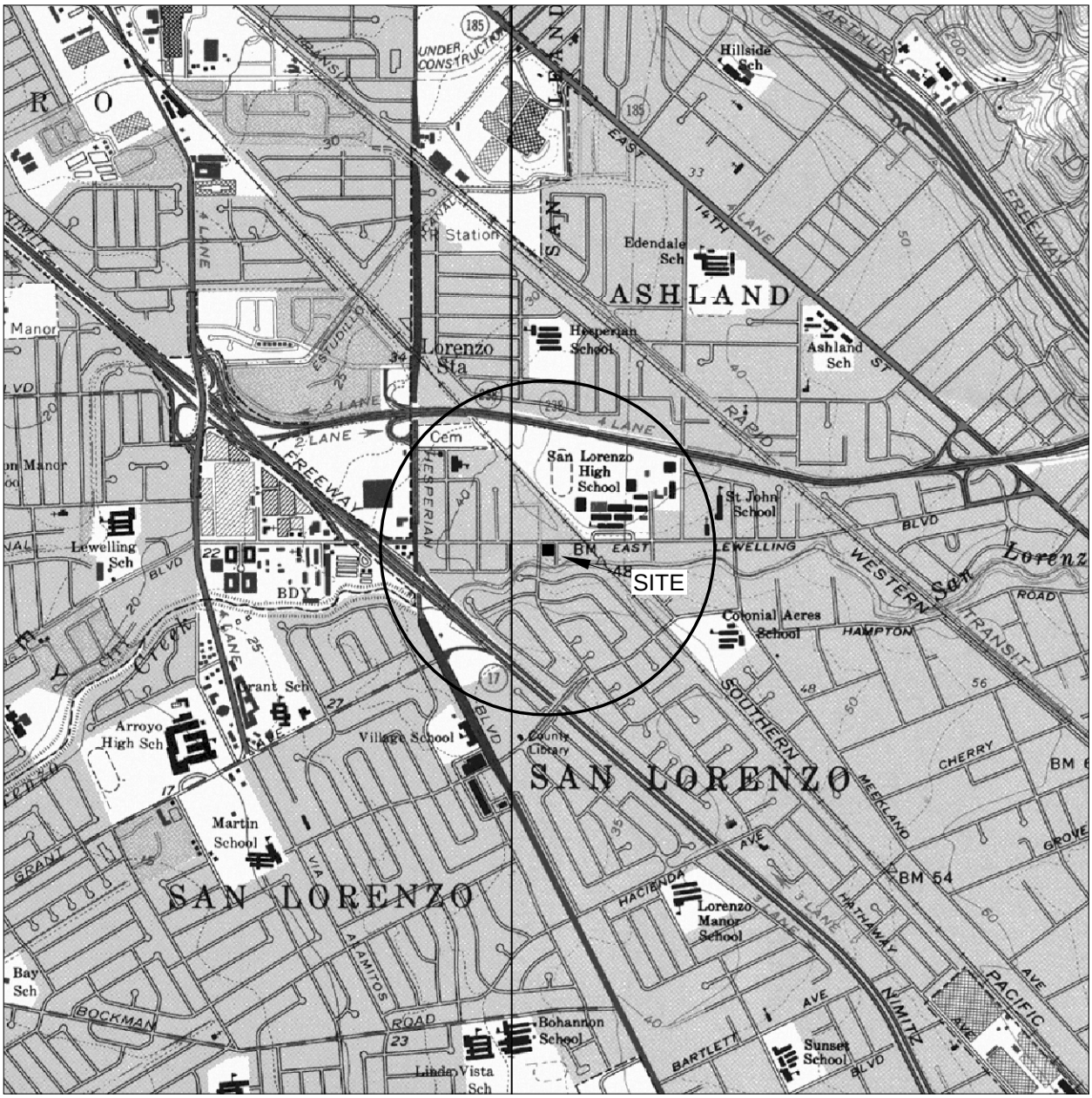
TPH = Total petroleum hydrocarbons.

MTBE = Methyl tertiary butyl ether.

µg/L = Micrograms per liter.

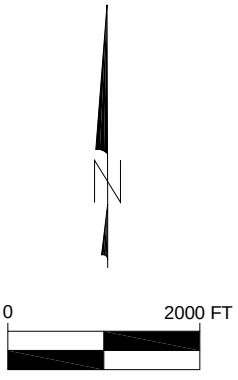
NM = Not measured.

NC = Not calculated.



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
HAYWARD, CA.
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1980

QUADRANGLE LOCATION



SCALE 1:24,000

FIGURE 1
SITE LOCATION MAP
TESORO STATION NO. 67107
(FORMER BEACON STATION NO. 3721)
44 LEWELLING BOULEVARD
SAN LORENZO, CA.

PROJECT NO. 00-3721	DRAWN BY M.L. 12/15/00
FILE NO. 00-3721-1A	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

R D M Environmental

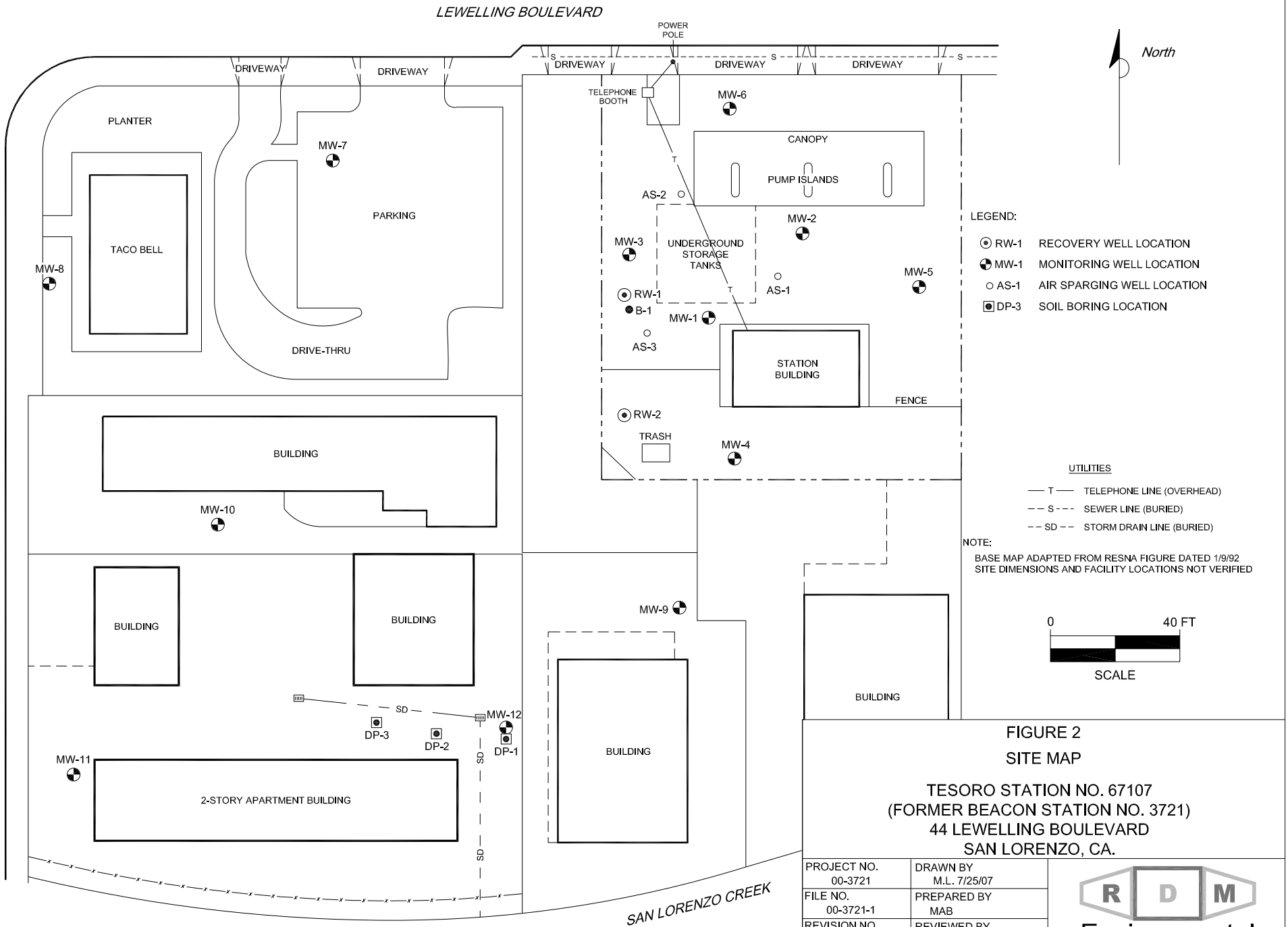


FIGURE 2

SITE MAP

TESORO STATION NO. 67107
(FORMER BEACON STATION NO. 3721)
44 LEWELLING BOULEVARD
SAN LORENZO, CA.

PROJECT NO. 00-3721	DRAWN BY M.L. 7/25/07
FILE NO. 00-3721-1	PREPARED BY MAB
REVISION NO. 4	REVIEWED BY

R D M Environmental

ENCLOSURE A

Alameda County Well Permit

Alameda County Public Works Agency - Water Resources Well Permit

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

7. Minimum surface seal thickness is two inches of cement grout placed by tremie

8. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

9. 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.

Borehole(s) for Investigation-Geotechnical Study/CPT's - 2 Boreholes
Driller: Woodward Drilling - Lic #: 710079 - Method: auger **Work Total: $200.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2007-0649	05/29/2007	09/05/2007	2	2.00 in	40.00 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.

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. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved 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: 05/29/2007 By jamesy

Permit Numbers: W2007-0648 to W2007-0649
Permits Valid from 06/07/2007 to 06/08/2007

Application Id:	1180029127352
Site Location:	15814 Via Granda, San Lorenzo, CA 94580
Project Start Date:	06/07/2007
Applicant:	RDM Environmental Inc. - Richard Munsch 6280 Brookshire Dr., Rocklin, CA 95747
Property Owner:	Tony Ruiz 15814 Via Granada, San Lorenzo, CA 94580
Client:	** same as Property Owner **

City of Project Site: San Lorenzo

Completion Date: 06/08/2007

Phone: 916-415-1134

Phone: 510-818-0975

	Total Due:	$500.00
Receipt Number: WR2007-0237	**Total Amount Paid:**	$500.00
Payer Name : RDM	Paid By: CHECK	**PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 1 Wells
Driller: woodward Drilling - Lic #: 710079 - Method: auger

Work Total: $300.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2007-0648	05/29/2007	09/05/2007	Mw-12	8.00 in.	2.00 in.	9.00 ft	40.00 ft

Specific Work Permit Conditions

1. 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.

2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an 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.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

application on site shall result in a fine of $500.00.

7. 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.

ENCLOSURE B

Field Methods and Procedures

RDM ENVIRONMENTAL

Enclosure B

Sampling Methods

Proper sampling methods must be followed to assure that samples represent actual field conditions and that samples are labeled, preserved, and transported properly to retain sample integrity. This attachment describes procedures to be followed by RDM Environmental (RDM), during collection of samples of subsurface soil and groundwater. Sampling procedures will be based on sampling guidance documents from the American Society of Testing and materials (ASTM), U.S. Environmental protection Agency (EPA), and California Department of Health Services (DHS). Actual sampling procedures to be employed will be based on field conditions and may differ from those described here.

A. EXPLORATION BORING/SOIL SAMPLING PROCEDURES

Soil borings and soil sampling will be performed under the direction of a RDM engineer/geologist. The soil borings will be advanced using drilling techniques appropriate for each project, as specified in the project work plan.

Soil samples will be collected at maximum intervals of 5 feet. Soil sampling will be done in accordance with ASTM 1586-84. Using this procedure, three 1.06- to 2-inch-diameter, 6-inch-length, brass or stainless steel tubes are placed in a California-type-split-barrel sampler, or a slide hammer with a single 6-inch by 2-inch brass or stainless tube by tapping the tube into the soil in the backhoe bucket with a hammer. The sampler is driven into the soil by a 140-pound weight falling 30 inches or with a slide hammer on hand auger samples. After an initial set of 6 inches, the number of blows required to drive the sampler an additional 12 inches is known as penetration resistance, or the •N• value. The •N• value is used as an empirical measure of the relative density of cohesion-less soils and the consistency of cohesive soils. When collecting a soil sample from a tank excavation or line excavation, the soil sample will be collected by tapping a brass stainless steel tube into the soil in the backhoe bucket.

Upon recovery of the split-barrel sampler or slide hammer sampler, the brass or stainless steel tubes containing the soil will be removed. One tube will be sealed at the ends with plastic end caps. The end caps will be secured to the ends of the tube to prevent loss of volatile constituents. The sample will be labeled with an identification number, time, date, location, and requested laboratory analysis. The sample will then be placed in a plastic bag and stored at approximately 4 degrees Celsius in an ice chest for transport to the laboratory. Sample custody procedures outlined in Section D of this attachment will be followed. This will be performed for each sample collected.

Soil in one of the brass or stainless steel tubes from the split-barrel sampler will be extracted upon recovery, placed in a plastic bag, and sealed for later screening for organic vapors using a photo ionization detector (PID) or a flame ionization detector (FID). The remaining portion of the soil sample will be examined and a complete log of soil conditions will be recorded on a soil boring log using the Unified Soil Classification System. The soil will be examined for grain size, color, and moisture content.

The split-barrel sampler or slide hammer sampler will be cleaned to prevent contamination across sampling intervals using procedures described in Section B. Soil generated from the soil borings will be stored in 55-gallon drums (unless otherwise directed by agencies or the client) labeled with the corresponding boring number, date, and address of the facility.

B. DECONTAMINATION AND DISPOSAL PROCEDURES

All equipment that comes into contact with potentially contaminated soil, drilling fluid, air or water will be decontaminated before each use. Decontamination will consist of steam cleaning, a high-pressure, hot water rinse, or trisodium phosphate (TSP) wash and freshwater rinse, as appropriate. Drilling and sampling

equipment will be decontaminated as follows:

1. Drill rig augers, drill rods, and drill bits will be steam-cleaned prior to use and between borings. Visible soil, grease, and other impurities will be removed.

2. Soil sampling equipment will be steam-cleaned prior to use and between each boring. Prior to individual sample collection, any sampling device will also be cleaned in a TSP solution and rinsed twice in clean water. Any visible soil residue will be removed.

3. It is anticipated that disposable equipment will be used to collect water samples. If disposable equipment is not used, water sampling equipment will be decontaminated using methods described in item 2 above for soil sampling equipment.

4. Water sampling containers will be cleaned and prepared by the respective analytical laboratories.

5. Stainless steel or brass soil sampling tubes will be steam-cleaned or washed in TSP solution and rinsed with clean water.

6. Field monitoring equipment (pH, conductivity, or temperature probes) will be rinsed with clean water prior to use and between samples.

C. FIELD MEASUREMENTS

Field data will be collected during various sampling and monitoring activities; this section describes routine procedures to be followed by personnel performing field measurements. The methods presented below are intended to ensure that field measurements are consistent and reproducible when performed by various personnel.

C.1 Buried Utility Locations

Prior to commencement of work on site, RDM will contact underground service alert and appropriate utility companies to have underground utility lines located. RDM will also visually survey the site to estimate the locations of potentially unmarked underground utilities. All work associated with the borings will be preceded by hand augering to a minimum depth of 5 feet below grade to avoid damaging underground utilities.

C.2 Lithologic Logging

A log of soil conditions encountered during the drilling and sample collection will be maintained using the Unified Soil Classification System by a RDM engineer/geologist. All boring logs will be reviewed by a California registered engineer/geologist.

The collected soil samples will be examined and the following information recorded: boring location, sample interval and depth, blow counts, color, soil type, moisture content (qualitative), and depth at which ground water (if present) is first encountered. Also recorded on the soil boring logs will be the field screening results derived from the use of a portable PID or FID.

C.3 Disposal Procedures

Soils and fluids that are produced and/or used during the installation and sampling of borings, and that are known or suspected to contain potentially hazardous materials, will be contained during the above operations. These substances will be retained on site until chemical testing has been completed to determine the proper means of disposal. Handling and disposal of substances known or suspected to contain potentially hazardous materials will comply with all applicable regulations including those of DHS and the California Department of Water Resources. Soils and fluids produced and/or used during the above-described operations that are shown

to contain potentially hazardous materials will be disposed of appropriately.

Residual substances generated during cleaning procedures that are known or suspected to pose a threat to human health or the environment will be placed in appropriate containers until chemical testing has been completed to determine the proper means for their disposal.

C.4 Conductivity, Temperature, and pH

Specific conductance, water temperature, and pH measurements will be made when a water sample is collected. Regardless of the sample collection method, a representative water sample will be placed in a transfer bottle used solely for field parameter determinations. A conventional pH meter with a combination electrode or equivalent will be used for field-specific conductance measurements. Temperature measurements will be performed using standard thermometers or equivalent temperature meters. Combination instruments capable of measuring two or all three of the parameters may also be used.

All instruments will be calibrated in accordance with manufacturer's recommendations. The values for conductivity standards and pH buffers used in calibration will be recorded in a field notebook. All probes will be thoroughly cleaned and rinsed with fresh water prior to any measurements, in accordance with Section C.1

D. SAMPLE CUSTODY

This section describes standard operating procedures for sample custody and custody documentation. Sample custody procedures will be followed through sample collection, transfer, analysis, and ultimate disposal. The purpose of these procedures is to assure that (1) the integrity of samples is maintained during their collection, transportation, and storage prior to analysis and (2) post-analysis sample material is properly disposed of. Sample custody is divided into field procedures and laboratory procedures, as described below.

D.1 Field Custody Procedures

Sample quantities, types, and locations will be determined before the actual fieldwork commences. As few personnel as possible will handle samples. The field sampler is personally responsible for the care and custody of the collected samples until they are properly transferred.

D.1.1 Field Documentation

Each sample will be labeled and sealed properly immediately after collection. Sample identification documents will be carefully prepared so that identification and chain-of-custody records can be maintained and sample disposition can be controlled. Forms will be filled out with waterproof ink. The following sample identification documents will be utilized:

- Sample labels
- Field notebook
- Chain-of-custody forms

D.1.2 Sample Labels

Sample labels provide identification of samples. Preprinted sample labels will be provided. Where necessary, the label will be protected from water and solvents with clear label-protection tape. Each label

will contain the following information:

- Name of collector
- Date and time of collection
- Place of collection
- RDM project number

- Sample number
- Preservative (if any)

D.1.3 Sample Labels Field Data Sheet

Information pertinent to a field survey, measurements, and/or sampling must be recorded on field data sheets. Entries on data sheets should include the following:

- Name and title of author, date and time of entry, and physical/environmental conditions during field activity.
- Location of sampling or measurement activity.
- Name(s) and title(s) of field crew.
- Type of sampled media (e.g., soil, groundwater, air, etc.).
- Sample collection or measurement method(s).
- Number and volume of sample(s) collected.
- Description of sampling point(s).
- Description of measuring reference point(s).
- Date and time of collection or measurement.
- Sample identification number(s).
- Sample preservative (if any).
- Sample distribution (e.g., laboratory).
- Field observations/comments.
- Field measurement data (pH, etc.).

D.1.4 Chain-of-custody Record

A chain-of-custody record will be completed out for and will accompany every sample and every shipment of samples to the analytical laboratories in order to establish the documentation necessary to trace sample possession from the time of collection to disposal. The record will contain the following information:

- Station number and sample I.D.
- Signature of collector, sampler, or recorder.
- Date and time of collection.
- Place of collection.
- Sample type.
- Signatures of persons involved in the chain of possession.
- Inclusive dates of possession.

The laboratory portion of the form should be completed by laboratory personnel and will contain the following information:

- Name of person receiving the sample.
- Laboratory sample number.
- Date and time of sample receipt.
- Analyses requested.
- Sample condition and temperature.

D.1.5 Sample Transfer and Shipment

A chain-of-custody record will always accompany samples. When transferring samples, the individuals relinquishing and receiving the samples will sign, date, and note the time on the chain-of-custody record.

Samples will be packaged properly for shipment and dispatched to the appropriate laboratory for analysis.

The chain-of-custody record will accompany each shipment. The method of shipment, courier name(s), and other pertinent information will be entered in the chain-of-custody record.

D.2 Laboratory Custody Procedures

A designated sample custodian will accept custody of the shipped samples and verify that the information on the sample label matches that on the chain-of-custody record. Information regarding method of delivery and sample conditions will also be checked on the chain-of-custody record. The custodian will then enter the appropriate data into the laboratory sample tracking system. The laboratory custodian may use the sample number on the sample label or may assign a unique laboratory number to each sample. The custodian will then transfer the sample to the proper analyst or store the sample in the appropriate secure area.

Laboratory personnel are responsible for the care and custody of samples from the time they are received until the sample is exhausted. Once at the laboratory, the samples will be handled in accordance with U.S. Environmental Protection Agency SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods, Third Edition, for the intended analyses. All data sheets, chromatographs, and laboratory records will be filed as part of the permanent documentation.

D.3 Corrections to Documentation

Original data recorded in field notebooks, chain-of-custody records, sampling information sheets, and other forms should be written in ink. These documents should not be altered, destroyed, or discarded even if they are illegible or contain inaccuracies that require a replacement document.

If an error is made or found on a document, the individual making the corrections will do so by crossing a single line through the error, entering the correct information, and initialing and dating the change. The erroneous information will be obliterated. Any subsequent error(s) discovered on a document will be corrected. All corrections will be initialed and dated.

D.4 Sample Storage and Disposal

The analytical laboratory should retain samples and extracts for 60 days after the laboratory issues a written report. Unless notified by the program manager, excess or unused samples should be disposed of by the laboratory in an appropriate manner consistent with applicable government regulations.

ENCLOSURE C

Soil Boring Logs and Well Details

RDM Environmental, Inc.
6280 Brookshire Drive
Rocklin, CA

LOG OF BORING DP-1/MW-12

Tesoro Service Station No . 67107
44 Lewelling Boulevard
San Lorenzo, CA

Installation of Monitoring Well MW-12
and Soil Borings DP-1 thru DP-3

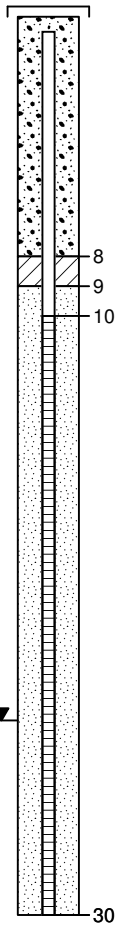
Date Started/Completed	6-26-2007	Drill Rig	: PowerProbe Model 9630
Hole Diameter	: 2.25-in./8.25-in.	Logged By	: M. Berrington, P.G. #7124
Drilling Method	: Direct Push/HSA	Survey By	: Pending
Sampling Method	: Dual Tube;1.75 in.X48 in. acetate	Northing/Easting Coord:	
Drilling Company/Driller:	Woodward Drilling/F. Rowe	Casing Elev.	:

Sample Interval: Lab Sample; Sample Interval; Lost

Sampler Type: SS Split Spoon; ST Shelby Tube; PS Piston Sampler; AL Clear Acetate Liner

Depth in Feet	Surf. Elev. 45.00	USCS	DESCRIPTION	PID (ppm)	Sample Interval	Sampler Type	Lab No.
0			Asphalt (2")				
			Fill: Aggregate Baserock				
			SILT; brown, nonplastic, moist (logged hand auger cuttings)				
5	40	ML		0			
10	35		contains thin (<2 in.) lenses of interbedded silty sand				
			CLAYEY SILT; brown, low to medium plasticity, soft, moist	0			
15	30	ML-CL	slightly wet at 15 to 16 ft.	0			
		SC	CLAYEY SAND: fine-grained sand; low plasticity fines; brown, medium dense, wet	0			
20	25	CL	CLAY: mottled gray-bown, low to medium plasticity, soft to medium stiff, moist				
		SM	SILTY SAND: fine-grained sand; brown, medium dense, wet	52		AL	DP-1-24'
25	20	CH	FAT CLAY: dark gray, medium plasticity, very stiff, moist				
			CLAY: pale tan gray with pale red brown mottling; medium plasticity, very stiff, moist	0		AL	DP-1-28'
30	15	CL	red brown mottling increase with depth				
			wet and soft at 32 ft.	0			
35	10	SP	POORLY-GRADED SAND: fine-grained sand; brown, loose, wet	0		AL	DP-1-36'
		ML-CL	SILTY CLAY: pale brown, low to medium plasticity, medium stiff to stiff, moist				
40	5	ML-CL	SANDY SILT: pale brown, wet			AL	DP-1-40'
			SILTY CLAY: pale red brown, low to medium plasticity, medium stiff to stiff, moist				
45	0						

Well: MW-12
Elev.:



WELL CONSTRUCTION

Date Compl.	: 6-26-07
Hole Diameter	: 8.25 in.
Drill. Method	: HSA
WELL CASING	:
Material	: Sch. 40 PVC
Diameter	: 2-in.
Joints	: flush-thread
WELL SCREEN	:
Material	: Sch. 40 PVC
Diameter	: 2-in.
Joints	: flush-thread
Slot Spacing	: 0.020-in.
SAND PACK	: No. 3 Sand
TRANSITION	: Bentonite chips
ANNULAR SEAL	: Neat Cement
SURFACE COMPLETION	: 8-in. dia. steel well box

Boring for MW-12 was advanced immediately adjacent to boring DP-1. No soil samples were collected from boring for MW-12.

08-27-2007 C:\Users\Mike\Documents\Tesoro\San Lorenzo\Boring Logs\Tesoro 67107 DP-1 (MW-12) log.bo

RDM Environmental, Inc.
6280 Brookshire Drive
Rocklin, CA

LOG OF BORING DP-2

Tesoro Service Station No . 67107
44 Lewelling Boulevard
San Lorenzo, CA

Installation of Monitoring Well MW-12
and Soil Borings DP-1 thru DP-3

Date Started/Completed	6-25-2007	Drill Rig	: PowerProbe Model 9630
Hole Diameter	: 2.25-in.	Logged By	: M. Berrington, P.G. #7124
Drilling Method	: Direct Push/HSA	Survey By	: Pending
Sampling Method	: Dual Tube;1.75 in.X48 in. acetate	Northing/Easting Coord:	
Drilling Company/Driller:	Woodward Drilling/F. Rowe	Casing Elev.	:

Sample Interval: Lab Sample; Sample Interval; Lost

Sampler Type: SS Split Spoon; ST Shelby Tube; PS Piston Sampler; AL Clear Acetate Liner

Depth in Feet	Surf. Elev. 45.00	USCS	DESCRIPTION	Water Level	PID (ppm)	Sample Interval	Sampler Type	Lab No.	REMARKS
0			Asphalt (2")						
			Fill: Aggregate Baserock						
5	40	ML	SILT; brown, nonplastic, moist (logged hand auger cuttings)		0				
10	35		contains thin (<2 in.) lenses of interbedded silty sand						
			CLAYEY SILT; brown, low to medium plasticity, soft, moist		0				
15	30	ML-CL	wet from 16 to 20 ft.; soft to medium stiff		0		AL	DP-2-16'	
		SP	POORLY GRADED SAND: fine to medium grained sand; brown, medium dense, wet		0				
20	25	CL	CLAY: mottled gray-bown, low to medium plasticity, soft to medium stiff, moist	▼					
		SP-SM	POORLY GRADED SAND WITH SILT: fine to medium grained sand; trace (<10%) fine, subrounded gravel to 0.25-in dia.; gray brown to green brown, medium dense, wet		0		AL	DP-2-24'	
25	20	CH	FAT CLAY: dark gray, medium to high plasticity, very stiff, moist		0				
30	15	CL	CLAY: pale tan gray with pale red brown mottling; medium plasticity, very stiff, moist red brown mottling increase with depth wet and soft at 32 ft.		0				
35	10	CL-ML	grades into clayey silt at 35 ft.						
		SM	CLAYEY SILT: pale brown, low to medium plasticity, moist to wet		0				
		CL-ML	SILTY SAND; fine grained sand; trace (<10%) fine, subangular gravel to 2-in. dia.; medium dense, wet						
40	5	SP	CLAYEY SILT: pale brown, low to medium plasticity, medium stiff to stiff, moist to wet		0				Total Depth = 40 ft.
			POORLY GRADED SAND ??- determination based on observation of material on drill bit						
45	0								

08-27-2007 C:\Users\Mike\Documents\Tesoro\San Lorenzo\Boring Logs\Tesoro 67107 DP-2 boring log.bor

RDM Environmental, Inc.
6280 Brookshire Drive
Rocklin, CA

LOG OF BORING DP-3

Tesoro Service Station No . 67107
44 Lewelling Boulevard
San Lorenzo, CA

Installation of Monitoring Well MW-12
and Soil Borings DP-1 thru DP-3

Date Started/Completed	6-26-2007	Drill Rig	: PowerProbe Model 9630
Hole Diameter	: 2.25-in.	Logged By	: M. Berrington, P.G. #7124
Drilling Method	: Direct Push/HSA	Survey By	: Pending
Sampling Method	: Dual Tube;1.75 in.X48 in. acetate	Northing/Easting Coord:	
Drilling Company/Driller:	Woodward Drilling/F. Rowe	Casing Elev.	:

Sample Interval: Lab Sample; Sample Interval; Lost

Sampler Type: SS Split Spoon; ST Shelby Tube; PS Piston Sampler; AL Clear Acetate Liner

Depth in Feet	Surf. Elev. 45.00	USCS	DESCRIPTION	Water Level	PID (ppm)	Sample Interval	Sampler Type	Lab No.	REMARKS
0			Asphalt (2")						
			Fill: Aggregate Baserock						
			SILT; brown, nonplastic, moist (logged hand auger cuttings)						
5	40	ML			0				
10	35		contains thin (<2 in.) lenses of interbedded silty sand						
			CLAYEY SILT; brown, low to medium plasticity, soft, moist		0				
15	30	ML-CL			0				
			first groundwater between 17 to 18 ft.; soft to medium stiff						
20	25	SC	CLAYEY SAND: fine to medium grained sand; brown, medium dense, wet		0				
		CL	CLAY WITH SAND: fine-grained sand; trace (<10%) fine, subrounded gravel to 0.5-in. dia.; mottled gray-bown, low to medium plasticity, soft to medium stiff, moist		15		AL	DP-3-24.5'	
25	20	SM	SILTY SAND: fine to medium grained sand; trace (<10%) fine, subrounded gravel to 0.25-in dia.; gray brown to green brown, medium dense, wet		6.5				
		CH	FAT CLAY: dark gray, medium to high plasticity, very stiff, moist		0		AL	DP-3-28	
30	15		CLAY: pale tan gray with pale red brown mottling; medium plasticity, very stiff, moist						
		CL	red brown mottling increase with depth		0				
			wet and soft at 32 ft.						
35	10	ML	SILT WITH SAND: pale brown, low to medium plasticity, moist to wet		0		AL	DP-3-36	
		SP-SM	POORLY GRADED SAND WITH SILT; fine grained sand; trace (<10%) fine, subangular gravel to 2-in. dia.; medium dense, wet						No recovery from 39 to 40 ft.
		CL-ML							
40	5	SP	CLAYEY SILT: pale brown, low to medium plasticity, medium stiff to stiff, moist to wet		0				Total Depth = 40 ft.
			POORLY GRADED SAND ??- determination based on observation of material on drill bit						
45	0								

08-27-2007 C:\Users\Mike\Documents\Tesoro\San Lorenzo\Boring Logs\Tesoro 67107 DP-3 boring log.bor

ENCLOSURE D

Soil Sample Laboratory Analytical Results

KIFF Analytical LLC

Report Number : 57256
Date : 7/3/2007

Richard Munsch
RDM Environmental
6280 Brookshire Drive
Rocklin, CA 95677

Subject : 9 Soil Samples
Project Name : Tesoro #67107
Project Number : 67107

Dear Mr. Munsch,

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 : 57256
Date : 7/3/2007

Subject : 9 Soil Samples
Project Name : Tesoro #67107
Project Number : 67107

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with samples DP-1-36' and DP-1-28' for the analyte Tert-Butanol 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 DP-1-36' and DP-1-28' for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 57256

Date : 7/3/2007

Project Name : **Tesoro #67107**

Project Number : **67107**

Sample : **DP-1-24'** Matrix : Soil Lab Number : 57256-01

Sample Date :6/25/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Tert-Butanol	**< 0.015**	0.015	mg/Kg	EPA 8260B	6/29/2007
TPH as Gasoline	**8.5**	2.5	mg/Kg	EPA 8260B	6/30/2007
Toluene - d8 (Surr)	95.1		% Recovery	EPA 8260B	6/29/2007
4-Bromofluorobenzene (Surr)	97.4		% Recovery	EPA 8260B	6/29/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 57256

Date : 7/3/2007

Project Name : **Tesoro #67107**

Project Number : **67107**

Sample : **DP-1-28'** Matrix : Soil Lab Number : 57256-02

Sample Date :6/25/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
TPH as Gasoline	**1.2**	1.0	mg/Kg	EPA 8260B	6/30/2007
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	6/30/2007
4-Bromofluorobenzene (Surr)	98.2		% Recovery	EPA 8260B	6/30/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 57256

Date : 7/3/2007

Project Name : **Tesoro #67107**

Project Number : **67107**

Sample : **DP-1-36'** Matrix : Soil Lab Number : 57256-03

Sample Date :6/25/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/30/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	6/30/2007
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	6/30/2007
4-Bromofluorobenzene (Surr)	96.9		% Recovery	EPA 8260B	6/30/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 57256

Date : 7/3/2007

Project Name : **Tesoro #67107**

Project Number : **67107**

Sample : **DP-1-40'** Matrix : Soil Lab Number : 57256-04

Sample Date :6/25/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	6/29/2007
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	6/29/2007
4-Bromofluorobenzene (Surr)	96.9		% Recovery	EPA 8260B	6/29/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 57256

Date : 7/3/2007

Project Name : **Tesoro #67107**

Project Number : **67107**

Sample : **DP-2-24'** Matrix : Soil Lab Number : 57256-05

Sample Date :6/25/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	6/29/2007
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	6/29/2007
4-Bromofluorobenzene (Surr)	97.9		% Recovery	EPA 8260B	6/29/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 57256

Date : 7/3/2007

Project Name : **Tesoro #67107**

Project Number : **67107**

Sample : **DP-2-16'** Matrix : Soil Lab Number : 57256-06

Sample Date :6/25/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	6/29/2007
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	6/29/2007
4-Bromofluorobenzene (Surr)	98.8		% Recovery	EPA 8260B	6/29/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 57256

Date : 7/3/2007

Project Name : **Tesoro #67107**

Project Number : **67107**

Sample : **DP-3-24.5'** Matrix : Soil Lab Number : 57256-07

Sample Date :6/26/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	7/2/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	7/2/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	7/2/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	7/2/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	7/2/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	7/2/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	7/2/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	7/2/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	7/2/2007
TPH as Gasoline	**8.3**	5.0	mg/Kg	EPA 8260B	6/29/2007
Toluene - d8 (Surr)	86.4		% Recovery	EPA 8260B	7/2/2007
4-Bromofluorobenzene (Surr)	96.9		% Recovery	EPA 8260B	7/2/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 57256

Date : 7/3/2007

Project Name : **Tesoro #67107**

Project Number : **67107**

Sample : **DP-3-28'** Matrix : Soil Lab Number : 57256-08

Sample Date :6/26/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	6/29/2007
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	6/29/2007
4-Bromofluorobenzene (Surr)	98.0		% Recovery	EPA 8260B	6/29/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 57256

Date : 7/3/2007

Project Name : **Tesoro #67107**

Project Number : **67107**

Sample : **DP-3-36'** Matrix : Soil Lab Number : 57256-09

Sample Date :6/26/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/29/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	6/29/2007
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	6/29/2007
4-Bromofluorobenzene (Surr)	98.2		% Recovery	EPA 8260B	6/29/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 57256

Date : 7/3/2007

QC Report : Method Blank Data

Project Name : **Tesoro #67107**

Project Number : **67107**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/29/2007
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/29/2007
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/29/2007
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/29/2007
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/29/2007
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/29/2007
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/29/2007
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/29/2007
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/29/2007
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	6/29/2007
Toluene - d8 (Surr)	101		%	EPA 8260B	6/29/2007
4-Bromofluorobenzene (Surr)	98.3		%	EPA 8260B	6/29/2007
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/30/2007
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/30/2007
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/30/2007
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/30/2007
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/30/2007
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/30/2007
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/30/2007
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/30/2007
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/30/2007
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	6/30/2007
Toluene - d8 (Surr)	101		%	EPA 8260B	6/30/2007
4-Bromofluorobenzene (Surr)	99.0		%	EPA 8260B	6/30/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	7/2/2007
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	7/2/2007
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	7/2/2007
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	7/2/2007
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	7/2/2007
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	7/2/2007
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	7/2/2007
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	7/2/2007
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	7/2/2007
Toluene - d8 (Surr)	100		%	EPA 8260B	7/2/2007
4-Bromofluorobenzene (Surr)	97.6		%	EPA 8260B	7/2/2007

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 57256

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 7/3/2007

Project Name : **Tesoro #67107**

Project Number : **67107**

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	57256-03	<0.0050	0.0396	0.0389	0.0381	0.0369	mg/Kg	EPA 8260B	6/30/07	96.2	94.7	1.48	70-130	25
Toluene	57256-03	<0.0050	0.0396	0.0389	0.0383	0.0370	mg/Kg	EPA 8260B	6/30/07	96.7	95.2	1.52	70-130	25
Tert-Butanol	57256-03	0.0058	0.198	0.194	0.178	0.172	mg/Kg	EPA 8260B	6/30/07	87.0	85.7	1.57	70-130	25
Methyl-t-Butyl Ether	57256-03	<0.0050	0.0396	0.0389	0.0400	0.0402	mg/Kg	EPA 8260B	6/30/07	101	103	2.36	70-130	25
Benzene	57278-03	<0.0050	0.0399	0.0378	0.0348	0.0310	mg/Kg	EPA 8260B	6/30/07	87.1	82.0	6.06	70-130	25
Toluene	57278-03	<0.0050	0.0399	0.0378	0.0341	0.0299	mg/Kg	EPA 8260B	6/30/07	85.5	79.0	7.85	70-130	25
Tert-Butanol	57278-03	0.0063	0.200	0.189	0.150	0.138	mg/Kg	EPA 8260B	6/30/07	71.9	69.6	3.29	70-130	25
Methyl-t-Butyl Ether	57278-03	0.058	0.0399	0.0378	0.112	0.0900	mg/Kg	EPA 8260B	6/30/07	137	85.5	46.0	70-130	25
Benzene	56536-07	<0.0050	0.0398	0.0398	0.0346	0.0322	mg/Kg	EPA 8260B	7/2/07	87.1	81.0	7.22	70-130	25
Toluene	56536-07	<0.0050	0.0398	0.0398	0.0359	0.0334	mg/Kg	EPA 8260B	7/2/07	90.2	84.0	7.13	70-130	25
Tert-Butanol	56536-07	<0.0050	0.199	0.199	0.173	0.167	mg/Kg	EPA 8260B	7/2/07	87.2	84.1	3.55	70-130	25
Methyl-t-Butyl Ether	56536-07	<0.0050	0.0398	0.0398	0.0350	0.0339	mg/Kg	EPA 8260B	7/2/07	87.9	85.4	2.94	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 57256

QC Report : Laboratory Control Sample (LCS)

Date : 7/3/2007

Project Name : **Tesoro #67107**

Project Number : **67107**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0399	mg/Kg	EPA 8260B	6/29/07	108	70-130
Toluene	0.0399	mg/Kg	EPA 8260B	6/29/07	112	70-130
Tert-Butanol	0.200	mg/Kg	EPA 8260B	6/29/07	95.8	70-130
Methyl-t-Butyl Ether	0.0399	mg/Kg	EPA 8260B	6/29/07	107	70-130
Benzene	0.0394	mg/Kg	EPA 8260B	6/30/07	93.9	70-130
Toluene	0.0394	mg/Kg	EPA 8260B	6/30/07	94.6	70-130
Tert-Butanol	0.197	mg/Kg	EPA 8260B	6/30/07	101	70-130
Methyl-t-Butyl Ether	0.0394	mg/Kg	EPA 8260B	6/30/07	94.3	70-130
Benzene	0.0391	mg/Kg	EPA 8260B	7/2/07	87.6	70-130
Toluene	0.0391	mg/Kg	EPA 8260B	7/2/07	90.1	70-130
Tert-Butanol	0.195	mg/Kg	EPA 8260B	7/2/07	89.2	70-130
Methyl-t-Butyl Ether	0.0391	mg/Kg	EPA 8260B	7/2/07	86.2	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

KIFF Analytical LLC

Analysis Summary

Report Number : 57256

Date : 7/3/2007

Attention : Richard Munsch
RDM Environmental
6280 Brookshire Drive
Rocklin, CA 95677

Project Name :Tesoro #67107
Project Number : 67107

			Sample Name	DP-1-24'		DP-1-28'		DP-1-36'		DP-1-40'		DP-2-24'		DP-2-16'		DP-3-24.5'		DP-3-28'	
			Sample Date	6/25/2007		6/25/2007		6/25/2007		6/25/2007		6/25/2007		6/25/2007		6/26/2007		6/26/2007	
Analyte	Method	Units		MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	mg/Kg		0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Toluene	EPA 8260B	mg/Kg		0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Ethylbenzene	EPA 8260B	mg/Kg		0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Total Xylenes	EPA 8260B	mg/Kg		0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	mg/Kg		0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Diisopropyl ether (DIPE)	EPA 8260B	mg/Kg		0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	mg/Kg		0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	mg/Kg		0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Tert-Butanol	EPA 8260B	mg/Kg		0.015	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
TPH as Gasoline	EPA 8260B	mg/Kg		2.5	**8.5**	1.0	**1.2**	1.0	ND	1.0	ND	1.0	ND	1.0	ND	5.0	**8.3**	1.0	ND
Toluene - d8 (Surr)	EPA 8260B	%			95.1		101		100		100		100		101		86.4		101
4-Bromofluorobenzene (Surr)	EPA 8260B	%			97.4		98.2		96.9		96.9		97.9		98.8		96.9		98.0

MRL = Method Reporting Limit
ND = Not Detected

Approved By,

Joel Kiff

KIFF Analytical LLC

Analysis Summary

Report Number : 57256

Date : 7/3/2007

Attention : Richard Munsch
RDM Environmental
6280 Brookshire Drive
Rocklin, CA 95677

Project Name :Tesoro #67107
Project Number : 67107

			Sample Name	DP-3-36'
			Sample Date	6/26/2007
Analyte	Method	Units	MRL	Results
Benzene	EPA 8260B	mg/Kg	0.0050	ND
Toluene	EPA 8260B	mg/Kg	0.0050	ND
Ethylbenzene	EPA 8260B	mg/Kg	0.0050	ND
Total Xylenes	EPA 8260B	mg/Kg	0.0050	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	mg/Kg	0.0050	ND
Diisopropyl ether (DIPE)	EPA 8260B	mg/Kg	0.0050	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	mg/Kg	0.0050	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	mg/Kg	0.0050	ND
Tert-Butanol	EPA 8260B	mg/Kg	0.0050	ND
TPH as Gasoline	EPA 8260B	mg/Kg	1.0	ND
Toluene - d8 (Surr)	EPA 8260B	%		100
4-Bromofluorobenzene (Surr)	EPA 8260B	%		98.2

MRL = Method Reporting Limit
ND = Not Detected

Approved By,

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800
ELAP # 2236

KIFF Analytical LLC

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

SRG # / Lab No. 57256

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Richard Wunsch	California EDF Report? ☐ Yes ☐ No
Company / Address: ROM Env.	Sampling Company Log Code:
Phone #: (916) 415-1134 Fax #: (916) 415-1154	Global ID:
Project #: 67107 P.O. #:	EDF Deliverable To (Email Address):
Project Name: Tesoro #67107	Sampler Signature:
Project Address: 44 Lewelling Blvd. San Lorenzo, CA	

Sample Designation	Date	Time	Sampling	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	MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)	W.E.T. Lead (STLC)	TAT: 1 wk	For Lab Use Only
DP-1-24'	6/25/07	1040		X							X		X				X	X	X										X	01
DP-1-28'	6/25/07	1045		X							X		X				X	X	X											02
DP-1-36'	6/25/07	1105		X							X		X				X	X	X											03
DP-1-40'	6/25/07	1330		X							X		X				X	X	X											04
DP-2-24'	6/25/07	1510		X							X		X				X	X	X											05
DP-2-16'	6/25/07	1500		X							X		X				X	X	X											06
DP-3-24.5'	6/26/07	0935		X							X		X				X	X	X											07
DP3-28'	6/26/07	0935		X							X		X				X	X	X											08
DP-3-36'	6/26/07	0950		X							X		X				X	X	X											09

Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
	062807	1255	Kiff Analytical

Remarks:

Bill to: Tesoro / Jeff Baker

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
3.0	RWM	062807	1450	IR-5	(Yes) / No

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

KIFF Analytical LLC

Report Number : 57255
Date : 6/29/2007

Richard Munsch
RDM Environmental
6280 Brookshire Drive
Rocklin, CA 95677

Subject : 1 Soil Sample
Project Name : Tesoro #67107
Project Number : 67107

Dear Mr. Munsch,

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 : 57255
Date : 6/29/2007

Subject : 1 Soil Sample
Project Name : Tesoro #67107
Project Number : 67107

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with sample SP-1a,1b for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 57255

Date : 6/29/2007

Project Name : **Tesoro #67107**

Project Number : **67107**

Sample : **SP-1a,1b** Matrix : Soil Lab Number : 57255-01

Sample Date :6/26/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/28/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/28/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/28/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/28/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/28/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/28/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/28/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/28/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	6/28/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	6/28/2007
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	6/28/2007
4-Bromofluorobenzene (Surr)	99.2		% Recovery	EPA 8260B	6/28/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 57255

QC Report : Method Blank Data

Date : 6/29/2007

Project Name : **Tesoro #67107**

Project Number : **67107**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/28/2007
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/28/2007
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/28/2007
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/28/2007
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/28/2007
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/28/2007
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/28/2007
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/28/2007
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	6/28/2007
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	6/28/2007
Toluene - d8 (Surr)	98.9		%	EPA 8260B	6/28/2007
4-Bromofluorobenzene (Surr)	97.1		%	EPA 8260B	6/28/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 57255

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 6/29/2007

Project Name : **Tesoro #67107**

Project Number : **67107**

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	57221-11	0.0053	0.0397	0.0399	0.0411	0.0407	mg/Kg	EPA 8260B	6/28/07	90.2	88.7	1.74	70-130	25
Toluene	57221-11	<0.0050	0.0397	0.0399	0.0322	0.0349	mg/Kg	EPA 8260B	6/28/07	81.2	87.3	7.24	70-130	25
Tert-Butanol	57221-11	0.40	0.198	0.200	0.583	0.585	mg/Kg	EPA 8260B	6/28/07	94.1	94.6	0.510	70-130	25
Methyl-t-Butyl Ether	57221-11	0.15	0.0397	0.0399	0.171	0.171	mg/Kg	EPA 8260B	6/28/07	60.1	59.7	0.583	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 57255

QC Report : Laboratory Control Sample (LCS)

Date : 6/29/2007

Project Name : **Tesoro #67107**

Project Number : **67107**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0393	mg/Kg	EPA 8260B	6/28/07	96.1	70-130
Toluene	0.0393	mg/Kg	EPA 8260B	6/28/07	95.8	70-130
Tert-Butanol	0.196	mg/Kg	EPA 8260B	6/28/07	95.8	70-130
Methyl-t-Butyl Ether	0.0393	mg/Kg	EPA 8260B	6/28/07	95.7	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

KIFF Analytical LLC

Analysis Summary

Report Number : 57255

Date : 6/29/2007

Attention : Richard Munsch
RDM Environmental
6280 Brookshire Drive
Rocklin, CA 95677

Project Name :Tesoro #67107
Project Number : 67107

			Sample Name	SP-1a,1b
			Sample Date	6/26/2007
Analyte	Method	Units	MRL	Results
Benzene	EPA 8260B	mg/Kg	0.0050	ND
Toluene	EPA 8260B	mg/Kg	0.0050	ND
Ethylbenzene	EPA 8260B	mg/Kg	0.0050	ND
Total Xylenes	EPA 8260B	mg/Kg	0.0050	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	mg/Kg	0.0050	ND
Diisopropyl ether (DIPE)	EPA 8260B	mg/Kg	0.0050	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	mg/Kg	0.0050	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	mg/Kg	0.0050	ND
Tert-Butanol	EPA 8260B	mg/Kg	0.0050	ND
TPH as Gasoline	EPA 8260B	mg/Kg	1.0	ND
Toluene - d8 (Surr)	EPA 8260B	%		100
4-Bromofluorobenzene (Surr)	EPA 8260B	%		99.2

MRL = Method Reporting Limit
ND = Not Detected

Approved By,

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800
ELAP # 2236

Calscience
Environmental
Laboratories, Inc.

July 09, 2007

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 07-06-2200**
Client Reference: Tesoro #67107

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/29/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Amanda Porter

Calscience Environmental
Laboratories, Inc.
Amanda Porter
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 06/29/07
Work Order No: 07-06-2200
Preparation: EPA 3050B
Method: EPA 6010B

Project: Tesoro #67107

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
SP-1a,1b	**07-06-2200-1**	**06/26/07**	**Solid**	**ICP 5300**	**07/01/07**	**07/02/07**	**070701L03**

Parameter	Result	RL	DF	Qual	Units
Lead	7.42	0.500	1		mg/kg

Method Blank	**097-01-002-9,500**	**N/A**	**Solid**	**ICP 5300**	**07/01/07**	**07/02/07**	**070701L03**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 06/29/07
Work Order No: 07-06-2200
Preparation: EPA 3050B
Method: EPA 6010B

Project Tesoro #67107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-06-2277-1	**Solid**	**ICP 5300**	**07/01/07**	**07/02/07**	**070701S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	102	103	75-125	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Kiff Analytical		Date Received:	N/A
2795 2nd Street, Suite 300		Work Order No:	07-06-2200
Davis, CA 95616-6593		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: Tesoro #67107

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-9,500	**Solid**	**ICP 5300**	**07/02/07**	**070701-I-03**	**070701L03**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Lead	25.0	25.7	103	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-06-2200

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

KIFF Analytical LLC

2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

Lab No. 2200

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Troy Turpen

EDF Report? __Yes _X_No

Recommended but not mandatory to complete this section:

Company/Address: Kiff Analytical

Sampling Company Log Code:

Phone No.: | FAX No.:

Global ID:

Project Number: 67107 | P.O. No.: 57255

EDF Deliverable to (Email Address):

Project Name: Tesoro #67107

E-mail address: inbox@kiffanalytical.com

Project Address:

Analysis Request

Date due: July 6, 2007

For Lab Use Only

Sample Designation	Sampling Date	Sampling Time	Container: VOA	Poly	Sleeve	Glass Jar	Tedlar	Preservative: HNO_3	H_2SO_4	$Na_2S_2O_3$	$ZnAc_2$ & NaOH	NONE	Matrix: WATER	SOIL	Air	Total Lead by EPA 6010									
SP-1a,1b	06/26/07	17:15				1						1		X		X								X	

Relinquished by:	Date	Time	Received by:
Hardip Kandola Kiff Analytical	062807	1900	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	6/29/07	0800	

Remarks:

Bill to: Accounts Payable

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 06 - 2200

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff **DATE:** 6/29/07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
3.9 °C IR thermometer.
_____ Ambient temperature.

Initial: JP

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Present: _____

Initial: JP

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC		✓	
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: JP

COMMENTS:

KIFF Analytical LLC

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

SRG # / Lab No. 57255

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Richard Mlynarik	California EDF Report? ☐ Yes ☐ No
Company / Address: RDM Env.	Sampling Company Log Code:
Phone #: (916) 415-1174 Fax #: (916) 415-1154	Global ID:
Project #: 67107 P.O. #:	EDF Deliverable To (Email Address):
Project Name: Tesoro #67107	Sampler Signature:
Project Address: 44 Lewelling Blvd San Lorenzo	

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	Preservative:	Preservative:	Matrix: Water	Matrix: Soil	Matrix: Air	MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)	W.E.T. Lead (STLC)				TAT: 1 wk	For Lab Use Only
SP-1a, 1b	6/28/07	1415		2						X				X				X	X	X								X						X	01
~~SP-1b~~	~~6/28/07~~	~~1425~~																																	

Remarks: 2:1 composite by lab.

Bill to: Tesoro / Jeff Baker.

Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	062807	1255	Kiff Analytical

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
3.0	RLM	062807	1450	IR-5	(Yes) / No

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

ENCLOSURE E

Groundwater Sample Laboratory Analytical Results

KIFF Analytical LLC

Report Number : 57389
Date : 7/12/2007

Richard Munsch
RDM Environmental
6280 Brookshire Drive
Rocklin, CA 95677

Subject : 4 Water Samples
Project Name : 67107
Project Number : 67107

Dear Mr. Munsch,

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 : 57389

Date : 7/12/2007

Project Name : **67107**

Project Number : **67107**

Sample : **GW-Inf** Matrix : Water Lab Number : 57389-01

Sample Date :7/5/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**13**	0.50	ug/L	EPA 8260B	7/10/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	7/10/2007
Ethylbenzene	**0.83**	0.50	ug/L	EPA 8260B	7/10/2007
Total Xylenes	**4.6**	0.50	ug/L	EPA 8260B	7/10/2007
Methyl-t-butyl ether (MTBE)	**10**	0.50	ug/L	EPA 8260B	7/10/2007
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/10/2007
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/10/2007
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	7/10/2007
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	7/10/2007
TPH as Gasoline	**200**	50	ug/L	EPA 8260B	7/10/2007
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	7/10/2007
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	7/10/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 57389

Date : 7/12/2007

Project Name : **67107**

Project Number : **67107**

Sample : **GW-MID** Matrix : Water Lab Number : 57389-02

Sample Date :7/5/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**6.1**	0.50	ug/L	EPA 8260B	7/11/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Total Xylenes	**1.6**	0.50	ug/L	EPA 8260B	7/11/2007
Methyl-t-butyl ether (MTBE)	**8.8**	0.50	ug/L	EPA 8260B	7/11/2007
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	7/11/2007
TPH as Gasoline	**110**	50	ug/L	EPA 8260B	7/11/2007
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	7/11/2007
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	7/11/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 57389

Date : 7/12/2007

Project Name : **67107**

Project Number : **67107**

Sample : **GW-EFF** Matrix : Water Lab Number : 57389-03

Sample Date :7/5/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	7/11/2007
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	7/11/2007
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	7/11/2007
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	7/11/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 57389

Date : 7/12/2007

Project Name : **67107**

Project Number : **67107**

Sample : **MW-12** Matrix : Water Lab Number : 57389-04

Sample Date :7/5/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2007
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	7/11/2007
TPH as Gasoline	**480**	50	ug/L	EPA 8260B	7/11/2007
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	7/11/2007
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	7/11/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 57389

QC Report : Method Blank Data

Date : 7/12/2007

Project Name : **67107**

Project Number : **67107**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/10/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/10/2007
Toluene - d8 (Surr)	99.7		%	EPA 8260B	7/10/2007
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	7/10/2007
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/11/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/11/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/11/2007
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/11/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/11/2007
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/11/2007
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/11/2007
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/11/2007
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/11/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/11/2007
Toluene - d8 (Surr)	100		%	EPA 8260B	7/11/2007
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	7/11/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 57389

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 7/12/2007

Project Name : **67107**

Project Number : **67107**

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	57389-01	13	40.0	40.0	52.2	51.6	ug/L	EPA 8260B	7/10/07	97.3	95.8	1.59	70-130	25
Toluene	57389-01	<0.50	40.0	40.0	40.1	39.8	ug/L	EPA 8260B	7/10/07	100	99.4	0.889	70-130	25
Tert-Butanol	57389-01	<5.0	200	200	204	205	ug/L	EPA 8260B	7/10/07	102	102	0.255	70-130	25
Methyl-t-Butyl Ether	57389-01	10	40.0	40.0	48.0	48.3	ug/L	EPA 8260B	7/10/07	94.3	95.0	0.714	70-130	25
Benzene	57418-04	<0.50	40.0	40.0	42.5	42.3	ug/L	EPA 8260B	7/11/07	106	106	0.410	70-130	25
Toluene	57418-04	<0.50	40.0	40.0	43.1	42.6	ug/L	EPA 8260B	7/11/07	108	106	1.15	70-130	25
Tert-Butanol	57418-04	<5.0	200	200	216	211	ug/L	EPA 8260B	7/11/07	108	106	2.36	70-130	25
Methyl-t-Butyl Ether	57418-04	<0.50	40.0	40.0	38.9	38.4	ug/L	EPA 8260B	7/11/07	97.2	95.9	1.38	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 57389

QC Report : Laboratory Control Sample (LCS)

Date : 7/12/2007

Project Name : **67107**

Project Number : **67107**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	7/10/07	101	70-130
Toluene	40.0	ug/L	EPA 8260B	7/10/07	104	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/10/07	97.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/10/07	102	70-130
Benzene	40.0	ug/L	EPA 8260B	7/11/07	98.0	70-130
Toluene	40.0	ug/L	EPA 8260B	7/11/07	99.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/11/07	98.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/11/07	91.2	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

KIFF Analytical LLC

Analysis Summary

Report Number : 57389

Date : 7/12/2007

Attention : Richard Munsch
RDM Environmental
6280 Brookshire Drive
Rocklin, CA 95677

Project Name :67107
Project Number : 67107

			Sample Name	GW-Inf		GW-MID		GW-EFF		MW-12	
			Sample Date	7/5/2007		7/5/2007		7/5/2007		7/5/2007	
Analyte	Method	Units		MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L		0.50	**13**	0.50	**6.1**	0.50	ND	0.50	ND
Toluene	EPA 8260B	ug/L		0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L		0.50	**0.83**	0.50	ND	0.50	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L		0.50	**4.6**	0.50	**1.6**	0.50	ND	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L		0.50	**10**	0.50	**8.8**	0.50	ND	0.50	ND
Diisopropyl ether (DIPE)	EPA 8260B	ug/L		0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L		0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L		0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L		5.0	ND	5.0	ND	5.0	ND	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L		50	**200**	50	**110**	50	ND	50	**480**
Toluene - d8 (Surr)	EPA 8260B	%			99.7		100		99.0		101
4-Bromofluorobenzene (Surr)	EPA 8260B	%			101		103		102		103

MRL = Method Reporting Limit
ND = Not Detected

Approved By,

Joel Kiff

Calscience Environmental Laboratories, Inc.

July 16, 2007

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 07-07-0512**
Client Reference: 67107

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/10/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Amanda Porter

Calscience Environmental
Laboratories, Inc.
Amanda Porter
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 07/10/07
Work Order No: 07-07-0512

Project: 67107

Client Sample Number	Lab Sample Number	Date Collected	Matrix
GW-Eff	**07-07-0512-1**	**07/05/07**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	5.0	5.0	1		mg/L	07/11/07	07/11/07	EPA 410.4
Solids, Total Suspended	ND	1.0	1		mg/L	N/A	07/11/07	SM 2540 D

Method Blank	**N/A**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	07/11/07	07/11/07	EPA 410.4
Solids, Total Suspended	ND	1.0	1		mg/L	N/A	07/11/07	SM 2540 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 07-07-0512

Project: 67107

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Chemical Oxygen Demand	EPA 410.4	GW-Eff	07/11/07	5.0	5.0	0	0-25	
Solids, Total Suspended	SM 2540 D	07-07-0664-1	07/11/07	3390	3310	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-07-0512

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

KIFF Analytical LLC

2795 Second Street, Suite 300
Davis, CA 95618
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

Lab No. 0512

Page 1 of 1

Project Contact (Hardcopy or PDF to): Troy Turpen

EDF Report? __Yes _X_No

Chain-of-Custody Record and Analysis Request

Company/Address: Kiff Analytical

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

EDF Deliverable to (Email Address):

Phone No.: | FAX No.:

Project Number: 67107 | P.O. No.: 57389

Project Name: 67107

E-mail address: inbox@kiffanalytical.com

Project Address:

Sample Designation	Sampling		Container					Preservative					Matrix			Analysis Request								Date due:	For Lab Use Only
	Date	Time	Glass	Poly	Sleeve	Amber	Tedlar	HNO_3	H_2SO_4	$Na_2S_2O_3$	$ZnAc_2$ & NaOH	NONE	WATER	SOIL	Air	Total Suspended Solids	COD								
GW-Eff	7/5/07	0900		1		1			1			1	X			X	X							July 16, 2007	

Relinquished by:	Date	Time	Received by:
Hardip Kandola Kiff Analytical	070907	1900	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	7/10/07	0900	

Remarks:

Bill to: Accounts Payable

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 07 - 0512

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: kiff **DATE:** 7-10-07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

5.1 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: WB

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Present: _____

Initial: WB

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC		✓	
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: WB

COMMENTS:

KIFF Analytical LLC

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

SRG # / Lab No. 57389

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): RICHARD MUNSEY	California EDF Report? ☐ Yes ☐ No
Company / Address: RDM ENV.	Sampling Company Log Code:
Phone #: 916 415 1134 / Fax #: 916 415 1154	Global ID:
Project #: 07107 / P.O. #:	EDF Deliverable To (Email Address):
Project Name:	Sampler Signature:
Project Address: 44 Cewelling San Lorenzo	

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: H_2SO_4	Matrix: Water	Matrix: Soil	Matrix: Air	Matrix:	Analysis Request: MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)	W.E.T. Lead (STLC)	T.S.S.	T.D.S.		TAT: 12 hr / 24 hr / 48 hr / 72 hr / 1 wk	For Lab Use Only
GW-INF	7/3/07	0910	3		1	1			3		1	1	X						X	X	X										X	X			01
GW-MID	↓	0905	3						‖		‖	‖	‖						‖	‖	‖														02
GW-EFF		0900	3						‖		‖	‖	‖						‖	‖	‖														03
MW-12	↓	0845	3						‖		‖	‖	‖						‖	‖	‖														04

Relinquished by:	Date	Time	Received by:
1 Douglas Hoff			
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	070907	1021	Kiff Analytical

Remarks: ESTAT

Email Copy to RDM

Bill to: Tesoro / Anna Wilkinson

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
5.6	CIY	070907	1555	IR5	(Yes) / No

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