ACC ENVIRONMENTAL CONSULTANTS, INC.
7977 CAPWELL DRIVE, SUITE 100
OAKLAND, CALIFORNIA 94621

FACSIMILE TRANSMITTAL SHEET

TO:	FROM:
Eva Chu	Neil Doran
COMPANY:	DATE:
ACHCSA	01/25/00
PHONE NUMBER:	TOTAL NO. OF PAGES INCLUDING COVER:
	17
FAX NUMBER:	SENDER'S PHONE NUMBER:
337-9335	(510) 638-8400
RE:	YOUR FAXNUMBER:
Tank Removal Report	(510) 638-8404

☐ URGENT ☐ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

COMMENTS:

Eva –

Enclosed is the complete text of the Underground Storage Tank Removal Report. All appendices have been excluded for brevity; Dave DeMent will deliver a complete copy to you at the meeting tomorrow.

If you have any questions, please call either Dave or myself.

Sincerely,

Neil Doran

Neil Doran

ENVIRONMENTAL CONSULTANTS

January 25, 2000

Mr. Ed Sommerauer
City of Alameda
950 West Mall Square, Room 110
Alameda, California 94501

Re: Underground Storage Tank Removalf Report
2756 Main Street, Alameda, California
ACC Project No. 99-6209-015.02

Dear Mr. Sommerauer:

Enclosed please find one original and two copies of the Underground Storage Tank (UST) Removal Report for the former USTs located at 2756 Main Street, Alameda, California.

On your behalf, ACC will forward a copy of the report to Ms. Eva Chu at the Alameda County Health Care Services Agency:

If you have any questions, please feel free to contact me at (510) 638-8400.

Sincerely,

David R. DeMent
Environmental Division Manager

/nhd:drd

Enclosures

A·C·C
ENVIRONMENTAL
CONSULTANTS

UNDERGROUND STORAGE TANK REMOVAL REPORT

2756 Main Street
Alameda, California

ACC Project No. 99-6209-015.02

Prepared for:

Mr. Ed Sommerauer
City of Alameda
950 West Mall Square, Room 110
Alameda, California 94501

January 25, 2000

Prepared by :

Neil H. Doran
Staff Geologist

Reviewed by:

David R. DeMent
Environmental Division Manager

REGISTERED GEOLOGIST
DAVID R. DEMENT
NO. 5574
STATE OF CALIFORNIA

7977 Capwell Drive Suite 100 • Oakland CA 94621 • (510) 638-8400 • FAX (510) 638-8404
OAKLAND • LOS ANGELES • SACRAMENTO • SEATTLE

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APPENDICES

UNDERGROUND STORAGE TANK REMOVAL REPORT
2756 Main Street
Alameda, California

1.0 INTRODUCTION

ACC Environmental Consultants, Inc., (ACC) was retained by the City of Alameda (City) to document the removal of two underground storage tanks (USTs) at 2756 Main Street, Alameda, California (Figure 1). During removal, a third 550-gallon oil UST was discovered and also removed.

2.0 BACKGROUND

Two 6,000-gallon gasoline USTs formerly present at the site were part of the fuel dispensing system of a former automobile service station. The site was most recently occupied by Dale's Bar. The building which housed the bar has been demolished, and all that remained at time of tank removal was the concrete slab. During previous subsurface investigation at the site, ACC located the two 6,000-gallon gasoline USTs. ACC identified zones of soil impacted by a minor release(s) of petroleum hydrocarbons believed to have originated from the former USTs. The City undertook removal of the USTs as part of site rehabilitation.

2.1 Previous Site Investigation

ACC conducted subsurface investigations at the subject site in May and August 1999. The May 1999 work consisted of environmental oversight during excavation activities related to the location of the two 6,000-gallon gasoline USTs. During the project, ACC used a backhoe to locate the USTs and to collect soil samples from various locations around the site to characterize subsurface soil conditions and delineate the spatial extent of soil impacted by petroleum hydrocarbons. Select locations of trenching operations and soil sample locations are illustrated on Figure 2.

During the investigation, native soils consisted of brown to black, fine-grained silt and clay. Thin, discontinuous sand lenses were observed in several of the trenches, often forming conduits for water to infiltrate the excavations.

Analytical results reported detectable levels of total petroleum hydrocarbons as gas (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX), diesel, motor oil, and various California Assessment Metals (CAM 17). TPHg concentrations ranged from nondetect to 130 parts per million (ppm) in sample SS-5. BTEX concentrations were nondetect to minor, with the highest concentration reported at 2 ppm ethylbenzene in sample SS-5. Concentrations of diesel varied widely from 6.8 ppm (SS-11) to 610 ppm (SS-3); similarly, motor oil results ranged from nondetect to 2,800 ppm in SS-3. Numerous detectable concentrations of metals were reported at levels indicative of naturally occurring background levels, and all metal concentrations were well below the residential preliminary remediation goals (PRGs) set by the California EPA, Region IX. Based on field observations and analytical results, ACC concluded that the site did not contain widespread impact from petroleum hydrocarbons. Metal concentrations were all well below the residential PRGs for each constituent, and significant impact from petroleum hydrocarbons was

localized and restricted to soil immediately adjacent to the USTs. Petroleum hydrocarbon analytical results from soil samples collected during the May 1999 work are summarized in Table 1.

TABLE 1 - SOIL SAMPLE ANALYTICAL RESULTS (MAY 1999)

Sample ID	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Diesel	Motor Oil	Total Lead
SS-1,2	<1.0	<0.005	<0.005	<0.005	<0.005	13	78	15
SS-3	20	<0.62	<0.62	<0.62	<0.62	610	2,800	<1.0
SS-4	3.9	<0.005	0.0098	0.014	0.064	---	---	---
SS-5	130	<0.62	<0.62	2.0	1.9	570	1,800	---
SS-6	18	0.063	0.089	0.083	0.44	---	---	---
SS-7	<1.0	<0.005	<0.005	<0.005	<0.005	---	---	---
SS-8	<1.0	<0.005	<0.005	<0.005	<0.005	---	---	---
SS-9	<1.0	<0.005	<0.005	<0.005	<0.005	---	---	---
SS-10	<1.0	<0.005	<0.005	<0.005	<0.005	---	---	---
SS-11	---	---	---	---	---	6.8	<50	---
SS-12	---	---	---	---	---	95	<500	---
SS-13	---	---	---	---	---	14	<50	---

Notes: All results reported in milligrams per kilogram (mg/kg), approximately equal to parts per million (ppm)
--- Not analyzed
< Sample tested below the laboratory detection limit indicated

The August 1999 work consisted of advancing five exploratory soil borings and obtaining grab groundwater samples in order to characterize groundwater conditions at the site and to determine if any impact to groundwater had migrated off site. The locations of soil borings advanced during the August 1999 work are illustrated on Figure 2.

Analytical results indicated detectable levels of TPHg, BTEX constituents, and diesel-range petroleum hydrocarbons in grab groundwater samples. TPHg concentrations in water ranged from nondetect to 100 parts per billion (ppb) in boring SB-1. BTEX concentrations were nondetect to 2 ppb total xylenes in boring SB-5. No benzene was reported in any of the grab groundwater samples Concentrations of diesel-range hydrocarbons ranged from 150 ppb (SB-4) to 240 ppb (SB-5). Methyl tertiary butyl ether (MTBE) was not detected in any of the grab groundwater samples Analytical results from grab groundwater samples obtained during the August 1999 work are summarized in Table 2

One representative soil sample was taken at the subject site (from a depth of 5 feet bgs in boring SB-5) and analyzed for total extractable petroleum hydrocarbons (TEPH) as diesel and motor oil.

Neither constituent was detected above the laboratory reporting limits of 1 ppm and 50 ppm, respectively.

TABLE 2 – GRAB GROUNDWATER SAMPLE ANALYTICAL RESULTS (AUGUST 1999)

Sample ID	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Diesel	Motor Oil	MTBE
SB-1	100	<0.5	<0.5	<0.5	<0.5	230[ndp]	<640	<5.0
SB-2	<50	<0.5	<0.5	<0.5	<0.5	---	---	<5.0
SB-4	<50	<0.5	<0.5	<0.5	<0.5	150[ndp]	<630	<5.0
SB-5	<50	<0.5	1.7	0.83	2.0	240[ndp]	<610	<5.0

Notes: All results reported in micrograms per liter (µg/L), approximately equal to parts per billion (ppb)
--- Not analyzed
< Sample tested below the laboratory detection limit indicated
[ndp] Hydrocarbon reported does not match the pattern of the laboratory's diesel standard

Based on analytical results, ACC concluded that a minor, residual impact to shallow groundwater remains at the site, and that the primary constituent of concern was likely degraded motor oil reported as diesel-range hydrocarbons, which possesses a low migration potential and is unlikely to adversely affect human health or the environment.

3.0 FIELD ACTIVITIES

Prior to field activities, appropriate permits were obtained from the Alameda County Health Care Services Agency (ACHCSA). The UST removal and backfill work was performed by state licensed contractor Accutite Environmental Engineering (Accutite) under contractor's license number 762034, and by John's Excavating (contractor's license number 361828) in accordance with regulatory requirements. ACC documented the subsurface work during UST removal and closure procedures. Portions of the UST removal were observed by Ms. Eva Chu of the ACHCSA. A copy of the Hazardous Waste Generator Inspection Report completed by Ms. Chu is included as Appendix 1.

Accutite exposed the USTs on December 2, 1999, and removed both tanks on December 6, 1999. During removal activities, a third 550-gallon oil tank was discovered and exhumed. Upon removal, the three USTs were noted to be constructed of steel, and were observed to be in good condition Each of the two gasoline USTs had one 2-foot-square hole cut in the top of the tank, and each tank was filled with variable amounts of gravel, indicating that the USTs had been previously abandoned as vessels. It was not apparent that the 550-gallon oil UST had been previously abandoned.

3.1 Preparation

Prior to UST removal, both gasoline tanks were observed to be filled with water, gravel and soil debris. Approximately 7,000 gallons of water from the tanks was pumped out into a 20,000-gallon temporary holding tank pending analysis and disposal. Prior to removal of the water, ACC obtained grab water samples from each of the two USTs. The locations of the USTs are illustrated on Figure 3. The bottoms of the USTs sat at a depth of approximately 8 feet bgs.

3.2 UST Removal

Prior to removal, an Accutite representative measured the flammable vapor and oxygen concentrations inside each of the three tanks. This information was summarized in a Tank Closure Certification Form prepared by Accutite and is included as Appendix 2. Upon removal, the three USTs were punctured and flattened with a backhoe and rendered unusable. The scrap metal was loaded onto a truck and hauled by SimsMetal to their recycling facility in Richmond, California. A copy of the truck weight certificate is included as Appendix 3.

3.3 Dewatering Activities

During UST removal, water was observed in each of the gasoline USTs and in the three UST excavations. According to Accutite, approximately 7,000 gallons of water was pumped from the gasoline USTs into a temporary holding tank. An additional 10,000 gallons of water was pumped from the gasoline UST excavation and sprayed across the site for dust suppression. Foss Environmental pumped approximately 1,100 gallons of water from the oil UST excavation into a vacuum truck and hauled it to Seaport Environmental in Redwood City, California. A copy of the Foss Environmental invoice is included as Appendix 4. ACC understands that following receipt of analytical results and ACC's authorization letter dated December 16, 1999, Accutite dispersed the water in the holding tank across the site.

3.4 Subsurface Conditions

The soil observed within the excavations consisted of damp, green to black clay with variable amounts of silt and sand, soil commonly generalized as 'Bay Muds'. Water was observed at approximately 2 to 4 feet bgs in the each of the three UST excavations, and was interpreted to represent perched water from the adjacent Oakland Estuary (located north of the subject site). Some petroleum hydrocarbon odor and discoloration was noted in the soil removed from the gasoline UST excavations

3.4.1 Sample Collection

On December 2, 1999, ACC collected one water sample from within each of the two gasoline USTs (sample IDs TS-122-W and TN-122-W). These water samples are believed to be representative of the initial 7,000 gallons of water pumped into the steel holding tank from the gasoline USTs. In addition,

under the direction of the City, ACC collected one four-point composite soil sample from the stockpiled soil which had covered the top of the gasoline USTs (TT-122-S).

On December 6, 1999, under the direction of Ms. Eva Chu of the ACHSA, ACC collected five discrete soil samples from the soil stockpile (SP-126-A through SP-126-E), and one grab water sample from the oil tank pit (MAINST-126-W).

Soil samples were obtained with 2-inch-diameter brass liners. After collection, all soil samples were immediately covered with Teflon® tape and tight-fitting plastic end caps, labeled, and submitted to Chromalab, Inc. (Chromalab), a state-certified analytical laboratory. The December 2 soil sample from above the gasoline USTs was analyzed for TPHg and BTEX by EPA Method SW846 8020A Nov 1990/8015M, for TEPH as diesel and motor oil by EPA Method 8015M, and for total lead by EPA Method 6010. The December 2 grab water samples from the gasoline USTs were analyzed for TPHg, BTEX, and TEPH as diesel and motor oil.

The December 6 soil samples from the gasoline UST stockpile were analyzed for TPHg, BTEX, MTBE, and for TEPH as diesel and motor oil. The December 6 grab water sample from the oil UST excavation was analyzed for TPHg, BTEX, MTBE, TEPH as diesel and motor oil, for five leaking underground fuel tank (LUFT) soluble metals as cadmium, chromium, lead, nickel, and zinc by EPA Method 6010, for semivolatile organic compounds (SVOCs) by EPA Method 8270, for halogenated volatile organic compounds (HVOCs) by EPA Method 8010, and for total dissolved solids (TDS). Soil sample analytical results are summarized in Table 3, and grab water results are summarized in Tables 4 and 5. Copies of all analytical results and chain of custody records are attached as Appendix 5.

TABLE 3 – SOIL SAMPLE ANALYTICAL RESULTS

Sample No.	Date Sampled	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TEPH Diesel (mg/kg)	TEPH Motor Oil (mg/kg)	Total Lead (mg/kg)
TT-122-S	12/02/99	580[g]	<3.1	4.0	<3.1	<3.1	---	22[ed]	<50	13
SP-126-A	12/06/99	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	64[ndp]	120	---
SP-126-B	12/06/99	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	34[ndp]	87	---
SP-126-C	12/06/99	3.4[g]	<0.005	<0.005	0.027	0.070	<0.005	42[ndp]	240	---
SP-126-D	12/06/99	1.1[g]	<0.005	<0.005	<0.005	0.013	<0.005	55[ndp]	140	---
SP-126-E	12/06/99	110[g]	<0.62	0.95	0.63	1.6	<0.62	62[ndp]	92	---

Notes *mg/kg = milligrams per kilogram = ppm = parts per million*
< Indicates the sample tested below the specified laboratory reporting limit
--- Not analyzed
[g] Hydrocarbon reported in the gasoline range does not match the laboratory's gasoline standard
[ed] Hydrocarbon reported is in the early diesel range and does not match the laboratory's diesel standard
[ndp] Hydrocarbon reported does not match the pattern of the laboratory's diesel standard

TABLE 4 – GRAB WATER SAMPLE ANALYTICAL RESULTS (PETROLEUM HYDROCARBONS)

Sample No.	Date Collected	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TEPH Diesel (µg/L)	TEPH Motor Oil (µg/L)
TS-122-W	12/02/99	11,000	310	760	230	1,800	---	1,600[ndp]	2,900
TN-122-S	12/02/99	460	8.3	4.9	11	26	---	2,900[ndp]	960
MAINST-126-W	12/06/99	1,200[g]	<0.50	2.0	2.1	5.7	<5.0	29,000[ndp]	62,000

Notes: µg/L = micrograms per liter = ppb = parts per billion
[g] Hydrocarbon reported in the gasoline range does not match the laboratory's gasoline standard
[ndp] Hydrocarbon reported does not match the pattern of the laboratory's diesel standard

TABLE 5 – GRAB WATER SAMPLE ANALYTICAL RESULTS (SOLUBLE METALS, HVOCs, SVOCs, and TDS)

Sample No.	Date Collected	HVOCs by 8260 (µg/L)	Napthalene by 8270 (µg/L)	All Other 8270 Analytes (µg/L)	Cadmium ~~(µg/L)~~ mg/L	Chromium ~~(µg/L)~~ mg/L	Lead ~~(µg/L)~~ mg/L	Nickel ~~(µg/L)~~ mg/L	Zinc ~~(µg/L)~~ mg/L	TDS ~~(µg/L)~~ mg/L
MAINST-126-W	12/06/99	ND	4.1	ND	<0.002	<0.005	<0.005	0.0068	0.039	2,900

Notes: µg/L = micrograms per liter = ppb = parts per billion
ND = Not detected; sample tested below laboratory reporting limits for respective analytes

4.0 DISCUSSION

4.1 Gasoline USTs

Analytical results of the soil samples collected from stockpiled soil excavated during UST removal indicate a minor impact from petroleum hydrocarbons as gasoline, diesel and motor oil. The highest concentration reported was 580 parts per million (ppm) TPHg from the sample collected from soil in contact with the tank top. Only minor concentrations of BTEX constituents were reported.

Grab water analytical results collected from within the gasoline tanks report concentrations up to 11,000 parts per billion (ppb) TPHg, up to 310 ppb benzene, and up to 2,900 ppb each diesel and motor oil. The diesel fuel concentration was flagged by the laboratory as not matching the diesel pattern, indicating that the petroleum hydrocarbons reported as diesel may represent degraded motor oil

4.2 Used Oil UST

Analytical results for the grab water sample collected from within the used oil UST excavation reported 29,000 ppb diesel fuel, 62,000 ppb motor oil, and 1,200 ppb TPHg. The diesel concentration was flagged as not matching the laboratory's diesel standard. Halogenated volatile organic compounds (HVOCs) and semi-volatile organic compounds (SVOCs) were not detected above the laboratory detection limit in the grab water sample obtained from within the oil UST excavation except for napthalene (an SVOC), which was reported at 4.1 ppb. Soluble nickel and zinc were reported at trace concentrations. Total dissolved solids (TDS) were reported at 2,900 ppb, indicating brackish water conditions.

During removal of the waste oil UST, the liquid contents of the tank (water and residual product) were dumped into the excavation and sampled by ACC under direction of Ms. Chu of the ACHCSA. Because this grab water sample represents water which was in contact with residual product inside the former UST, ACC believes the analytical results to be skewed and not representative of ambient groundwater conditions in the vicinity of the waste oil UST.

4.3 Disposal of water

According to Accutite, approximately 18,100 gallons of water was generated during UST removal and later dispersed across the site. The highest concentrations of petroleum hydrocarbons were reported in the water sample from the oil UST excavation. This water, representing approximately 1,100 gallons, was removed via vacuum truck by Foss Environmental and delivered to Seaport Environmental in Redwood City. ACC believes that removal of the 1,100 gallons of water and residual product present in the waste oil UST excavation constitutes effective source removal Approximately 7,000 gallons of water present in the gasoline USTs was sampled by ACC prior to being pumped into the holding tank. Since this water was in constant contact with the residual source within the tanks, these analytical results are believed to represent a 'worst-case scenario' for water generated in the gasoline UST excavation.

Using the average concentrations of petroleum hydrocarbons detected in the two water samples obtained from the gasoline USTs, ACC calculates that 5.13 ounces of gasoline, 2.0 ounces of diesel, 1.73 ounces of motor oil, and 0.28 ounces of benzene were present in the 7,000 gallons of water pumped from the gasoline USTs into the holding tank on December 6. The water was held in the 20,000-gallon storage tank until it was discharged via sprayer on December 16 and 17, allowing approximately 10 days for volatilization of petroleum hydrocarbons from the water. Therefore, ACC believes that concentrations of constituents of concern were significantly lower when the water was discharged than when the water was first introduced into the holding tank.

5.0 CONCLUSIONS

Based on field observations, analytical results, and work performed to date, ACC concludes the following:

- Minor, localized TPHg impact exists in the vicinity of the former gasoline USTs/vessels;
- Groundwater immediately adjacent to the former used oil UST has been impacted; however, ACC believes the analytical results from the water sample obtained from the oil UST excavation to be skewed and not representative of actual groundwater conditions;
- Impact associated with the gasoline USTs and the used oil UST is localized due to fine-grained native soils with low estimated hydraulic conductivity;
- Shallow groundwater has elevated TDS and is not an existing or potential source of potable water;
- Future use of the site will facilitate natural attenuation processes and enhance natural degradation of residual petroleum hydrocarbons in the subsurface.

6.0 RECOMMENDATIONS

Based on field observations and analytical results of soil and grab water samples collected during UST removal, ACC recommends the following:

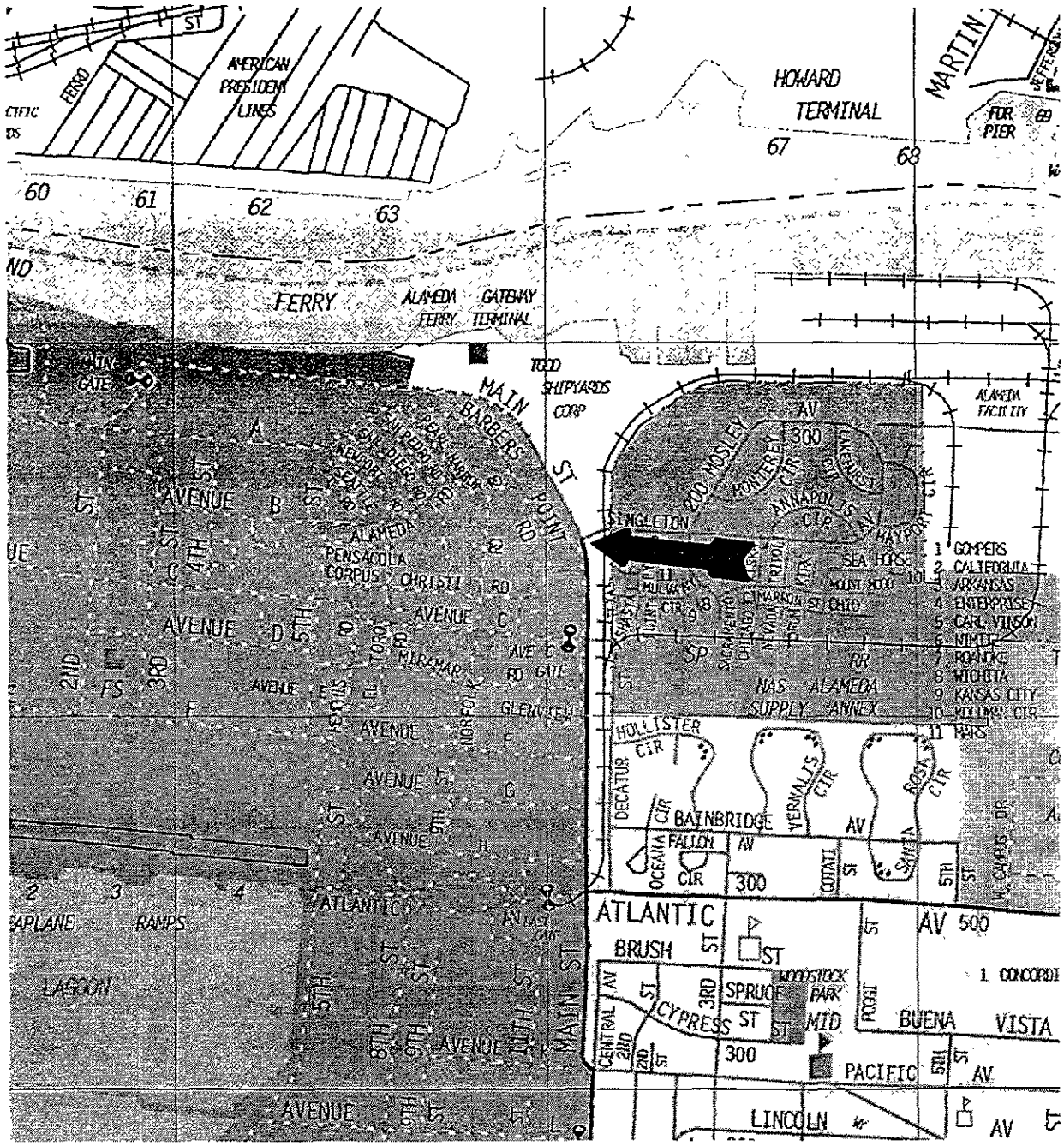
- No further investigation is warranted in the vicinity of the two former gasoline USTs;
- Residual concentrations of petroleum hydrocarbons in soil and groundwater be allowed to naturally degrade; and
- The site be evaluated for regulatory site closure in regards to the former USTs.

7.0 LIMITATIONS

The service performed by ACC has been conducted in a manner consistent with the levels of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area. No other warranty, expressed or implied, is made.

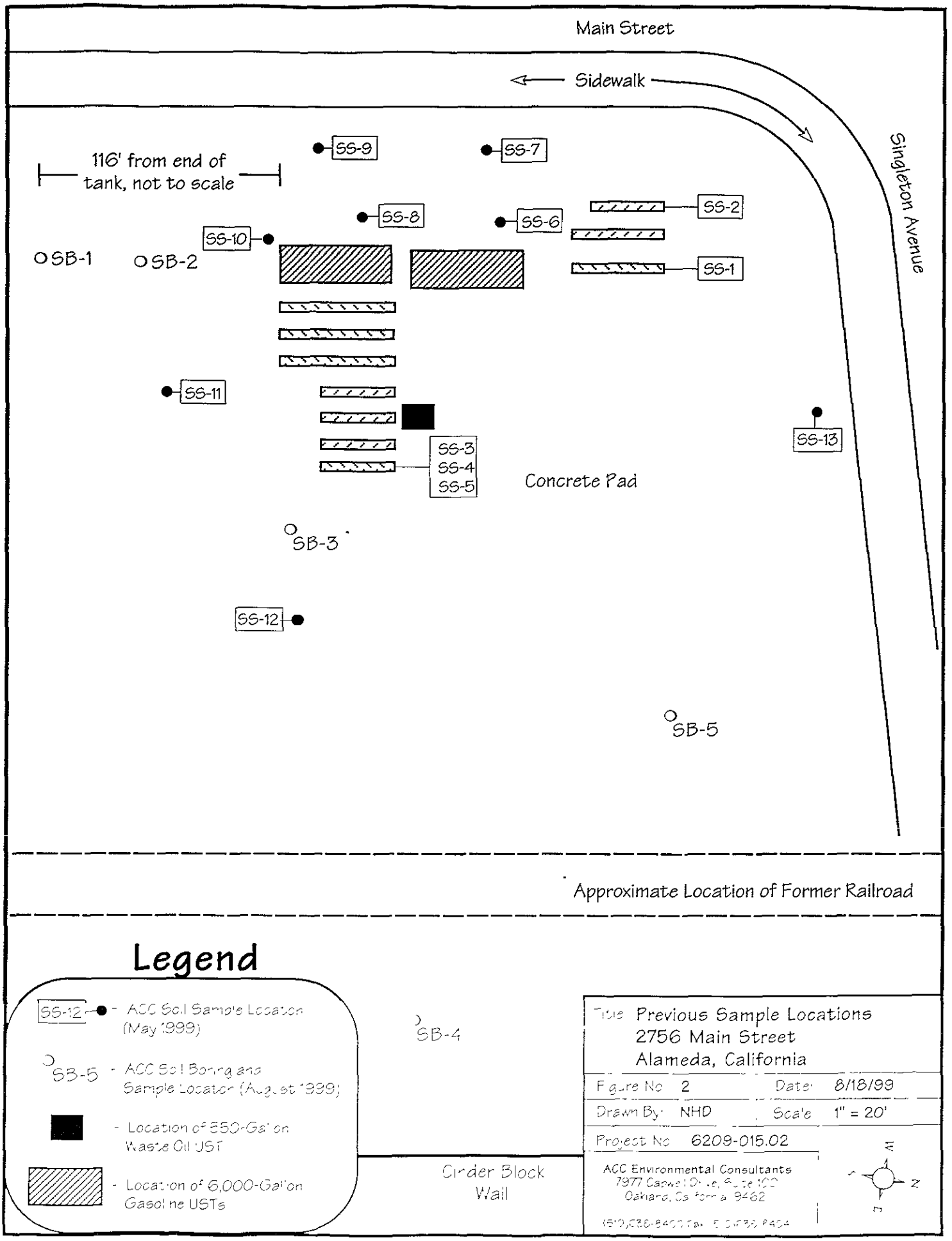
The conclusions presented in this report are professional opinions based on the indicated data described in this report and applicable regulations and guidelines currently in place. They are intended only for the purpose, site, and project indicated. Opinions and recommendations presented herein apply to site conditions existing at the time of our study.

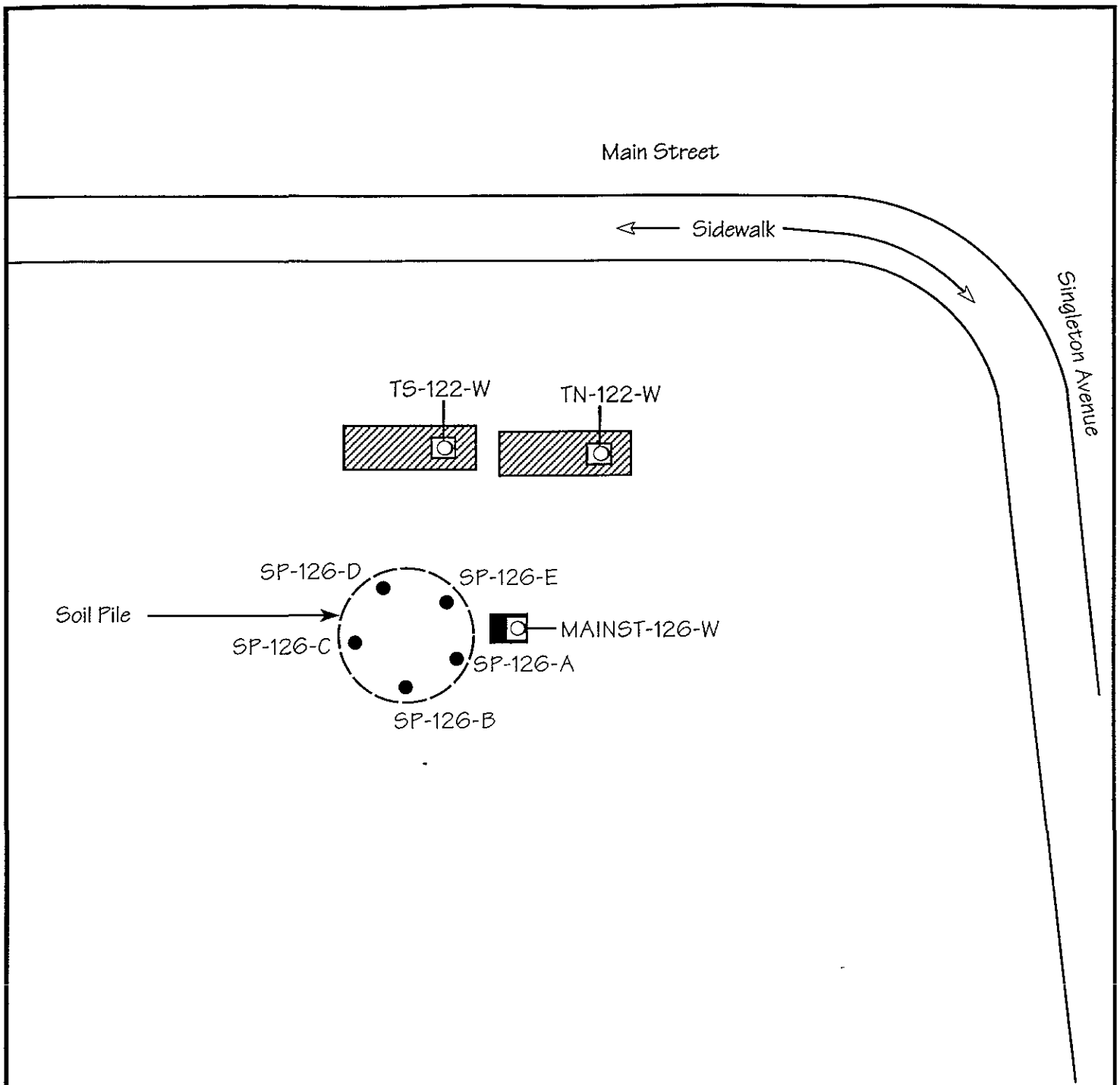
ACC has included analytical results from a state-certified laboratory, which performs analyses according to procedures suggested by the U.S. Environmental Protection Agency and the State of California. ACC is not responsible for laboratory errors in procedure or result reporting.



SOURCE Thomas Guide CD ROM, 1997

Title: **Location Map** **2756 Main Street** Alameda, California	
Figure Number 1	Scale 1" = 1/4 Mile
Project Number 6209-15.02	Drawn By NHD
A•C•C ENVIRONMENTAL CONSULTANTS	Date 01/24/00
7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax (510) 638-8404	N W E S


Main Street
Sidewalk
Singleton Avenue
116' from end of tank, not to scale
SS-9
SS-7
SS-8
SS-6
SS-2
SS-10
SB-1
SB-2
SS-1
SS-11
SS-13
SS-3
SS-4
SS-5
Concrete Pad
SB-3
SS-12
SB-5
Approximate Location of Former Railroad
Legend
SS-12 - ACC Soil Sample Location (May 1999)
SB-5 - ACC Soil Boring and Sample Location (August 1999)
- Location of 550-Gallon Waste Oil UST
- Location of 6,000-Gallon Gasoline USTs
SB-4
Cinder Block Wall
Title Previous Sample Locations
2756 Main Street
Alameda, California
Figure No 2
Date 8/18/99
Drawn By NHD
Scale 1" = 20'
Project No 6209-015.02
ACC Environmental Consultants
7977 Capwell Drive, Suite 100
Oakland, California 94621
(510) 638-8400 Fax (510) 638-8404
N



Legend

- SP-126-A - Soil Sample Location
- TS-122-W - Water Sample Location
- Location of 550-gallon oil UST
- Location of 6,000-gallon gasoline USTs

Title	Site Plan / Sample Locations 2756 Main Street Alameda, California
Figure No 3	Date 5/17/99
Drawn By NHD	Scale 1" = 20'
Project No 6209-015.02	

ACC Environmental Consultants
7977 Capwell Drive, Suite 100
Oakland, California 94621
(510) 638-8400 Fax (510) 638-8404

HAZARDOUS WASTE GENERATOR INSPECTION REPORT

ALAMEDA COUNTY ENVIRONMENTAL HEALTH / HAZARDOUS MATERIALS DIVISION
1131 HARBOR BAY PKWY., RM. 250, ALAMEDA, CA 94502-6577 (510)567-6700 FAX (510) 337-9355

HAZARDOUS WASTE GENERATOR INSPECTION REPORT

STID #: 1641	FACILITY NAME: City of Alameda 2756 Main - Alameda	PG. 1 OF 1

SUPPLEMENTAL FORM

Collect ~~a~~ grab groundwater sample from pit where sump/ septic tank was previously located

If stockpiled soil is to be re-used on-site collect a discrete soil sample for every 20 cy.

~~Analyze~~ soil samples for TPHg, TPHd, BTEX, MTBE

Analyze water sample for TPHG, TPHd, TOG, BTEX, MTBE, 5 metals (dissolved) (Cd, Cr, Pb, Ni, Zn) - HVOCs and SVOCs and TDS

PRINT NAME: Eva Chu	INSPECTED BY:
SIGNATURE:	DATE 12/6/99

GEN/SUPP RPT(REV 7/94) JNS /ECO

TANK CLOSURE CERTIFICATION FORM

TANK CLOSURE CERTIFICATION FORM

Page ___ of ___

I. FACILITY IDENTIFICATION

BUSINESS NAME 3: CITY OF ALAMEDA
FACILITY ID # 1:

SITE ADDRESS 104: 2756 Main St Alameda, CA

BUSINESS CITY 105:
BUSINESS ZIP 106:

TANK OWNER NAME 500:

TANK OWNER ADDRESS 501: CITY OF ALAMEDA 950 W. MALL SQUARE Alameda

TANK OWNER CITY 502:
STATE 503:
ZIP 504:

II. TANK CLOSURE INFORMATION

	Tank # (State Tank ID#, if applicable)	Flammable Vapor			Oxygen		
		Top	Center	Bottom	Top	Center	Bottom
Tank Interior Atmosphere Readings	1 6000 gas	0	0	0	0	0	0
	2 6000 gas	0	0	0	0	0	0
	3 550 waste oil	0	0	0	0	0	0

III. CERTIFICATION

On examination of the tank, I certify the tank is visually free from product, sludge, scale (thin, flaky residual of tank contents), rinseate and debris. I further certify that the information provided herein is true and accurate to the best of my knowledge.

CERTIFIER SIGNATURE: [signature]

CERTIFIER NAME (PRINT) 505: RON BRECKENRIDGE

CERTIFIER TITLE 507: 35 S. LINDEN

ADDRESS: SOUTH SAN FRANCISCO, CA

CITY:

PHONE: (650) 952-5521 x210

DATE CERTIFIED 508: 12-6-99

CERTIFICATION TIME: 11:00 AM.

STATUS OR AFFILIATION OF CERTIFYING PERSON 505

Certifier is a representative of the CUPA/LIA: YES ☐ NO ☐

Name of CUPA/LIA ____________

If certifier is other than CUPA/LIA check appropriate box below:

- ☐ Certified Industrial Hygienist (CIH)
- ☐ Certified Safety Professional (CSP)
- ☐ Certified Marine Chemist (CMC)
- ☐ Registered Environmental Health Specialist (REHS)
- ☐ Professional Engineer (PE)
- ☐ Class II Registered Environmental Assessor
- ☑ CSLB licensed contractor (with hazardous substance certificate)

Yes ☐ No ☐ Tank previously held flammable or combustible materials. If yes, the tank interior atmosphere shall be re-checked with a combustible gas indicator prior to work being conducted on the tank.

Certifier's tank management instructions for scrap dealer, disposal facility, etc.

A copy of this certificate shall accompany the tank to the recycling/disposal facility.

TRUCK WEIGHT CERTIFICATE

Hamilton
From: Carolyn

WEIGHMASTER CERTIFICATE
TRUCK SCALE

TICKET #: TV0286

SimsMetal America
Simsmetal USA Corporation

Purchased From: [illegible]
GARY MORLAN [illegible]
[illegible] SPRING COURT
KEYSEY VILLE CA

SIMSMETAL AMERICA - RICHMOND
RICHMOND DIVISION [illegible]
RICHMOND CA [illegible]
[illegible]

Veh # [illegible] ID # MORLAN A=SCALE1 B=SCALE2 C=SCALE3 D=SCALE4 M=MANUAL NET

COMMODITY	GROSS	TARE	NET	RED CWT	FD SET	PRICE	ADJ PRICE COMMENTS	TOTAL AMT
[illegible]	47400 A	32920 A	14580	.10	.04	35.0000 NT	35.0000 NT	255.15

ALL WEIGHTS ARE REPORTED IN POUNDS UNLESS OTHERWISE INDICATED

TOTALS	[illegible]	[illegible]	[illegible]	.00	255.15

WEIGHMASTER SIGNATURE [illegible] [signature]

CUSTOMER SIGNATURE [signature: Gary McLain]

NET TONS 7.2900

CUSTOMER RECEIPT

CONTROL NUMBER 0945479

NOT REFUNDABLE MORE THAN 90 DAYS FROM DATE ABOVE.

FOSS ENVIRONMENTAL INVOICE

FOSS
ENVIRONMENTAL & INFRASTRUCTURE
Always Ready

REMIT TO: DEPT. 5251, PO BOX 34936
SEATTLE, WA 98124-1936

Invoice Date: December 22, 1999

Invoice #: A9441
FES Job #: A9441
Customer PO#: N/A

Customer: Accuute Environmental Engineering
35 So. Linden Avenue
So. San Francisco, CA 94080

Contact: R. Breckenridge
Phone: 650-952-5551
Fax: 650-952-7631
Terms: Net 30 days

Job Description: Pump Excavation Pit & Dispose of Water at Seaport

Job Location: 2756 Main Street, Alameda

Job Date (s): 12/17/99

Progress Billing: No
Final Billing: Yes

QUANTITY	DESCRIPTION	UOM	UNIT PRICE	EXTENDED PRICE
1	Pump Excavation Pit & Dispose of Water at Seaport	ea.	981 00	$981.00

INVOICE SUBTOTAL $981.00
TAX n/a
TOTAL INVOICE $981.00

Currency: USD

THANK YOU FOR YOUR BUSINESS

Rich Lodge Project Manager

Direct Phone 510 749
Fax 510-749 4150

FED ID #: 91-1572532
A 1 5% per month finance charge will be assessed for all past due invoices to include the flat late fee amount.
CC: ACCOUNTING

FROM : Panasonic PPF

FOSS ENVIRONMENTAL INC.

BILLING SUMMARY

JOB NUMBER: A9441

NAME: Accutite Environmental

FIELD SERVICES - ALAMEDA

12/20/99 - 12/20/99

LABOR CHARGES

LABOR GRADE	RATE	HRS.	HRS	Total	Total Charge
Gordon Norris	70 00	15	55	7.0	490.00
				0.0	0 00
				0.0	0.00
				0 0	0 00
				0.0	0 00
				0.0	0.00
				0 0	0.00
				0.0	0.00
				0.0	0 00
				0.0	0.00
				0.0	0.00
				0 0	0.00
				0.0	0.00
				0 0	0.00
			LABOR TOTAL		490.00

EQUIPMENT	RATE	DAYS/HRS	Total	Total Charge
(2011) Vac-Truck			0.0	0 00
(3012) Vac-Trailer			0.0	0 00
(8100) Nextel			0 0	0.00
50' 3" Vac Hose			0 0	0 00
			0.0	0.00
			0.0	0.00
			0 0	0 00
			0.0	0.00
			0.0	0 00
			0.0	0 00
			0.0	0 00
			0.0	0.00
			0.0	0.00
			0.0	0.00
		EQUIP TOTAL		0.00

MATERIALS	RATE	UNITS	Total	Total Charge
Level D PPE			0.0	0.00
			0.0	0.00
			0.0	0.00
			0.0	0.00
			0.0	0.00
			0.0	0.00
		MATERIALS TOTAL		0.00

SUBCONTRACTORS/ SUPPLIERS	RATE	Total	Total Charge
		0 0	0 00
		0 0	0 00
		0 0	0 00
	SUBCONTRACTORS TOTAL		0 00

TRANS & DISPOSAL	RATE	Total	Total Charge
Oily Water to Seaport	0 31	1100 0	341 00
Truck Wash out	150 00	1 0	150 00
		0 0	0 00
		0 0	0 00
		0 0	0 00
			0 00
	TRANSPORTATION & DISPOSAL TOTAL		491 00
	TOTAL		981 00

Project Manager s Approval

ANALYTICAL RESULTS AND CHAIN OF CUSTODY RECORDS

ACC Environmental Consultants
7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn.: Mr. Dave DeMent

Project: 6209-015.02
2756 Main Street

Dear Mr. DeMent,

Attached is our report for your samples received on Thursday December 2, 1999
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after January 1, 2000 unless you have requested otherwise. We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919

Sincerely,

Vincent Vancil

Gas/BTEX

ACC Environmental Consultants
7977 Capwell Drive, Suite 100
Oakland, CA 94621
Attn: Dave DeMent
Phone: (510) 638-8400 Fax: (510) 638-8404
Project #: 6209-015.02
Project: 2756 Main Street

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
TS-122-W	Water	12/02/1999 09:30	1
TN-122-W	Water	12/02/1999 09:30	2

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-12-0033

To: **ACC Environmental Consultants**

Attn.: Dave DeMent

Test Method: 8015M
8020

Prep Method: 5030

Gas/BTEX

Sample ID:	**TS-122-W**	Lab Sample ID:	**1999-12-0033-001**
Project:	6209-015.02 2756 Main Street	Received:	12/02/1999 12:27
		Extracted:	12/06/1999 09:32
Sampled:	12/02/1999 09:30	QC-Batch:	1999/12/06-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	11000	5000	ug/L	100.00	12/06/1999 09:32	
Benzene	310	50	ug/L	100.00	12/06/1999 09:32	
Toluene	760	50	ug/L	100.00	12/06/1999 09:32	
Ethyl benzene	230	50	ug/L	100.00	12/06/1999 09:32	
Xylene(s)	1800	50	ug/L	100.00	12/06/1999 09:32	
Surrogate(s)						
Trifluorotoluene	105.6	58-124	%	1.00	12/06/1999 09:32	
4-Bromofluorobenzene-FID	85.4	50-150	%	1.00	12/06/1999 09:32	

To: **ACC Environmental Consultants**

Attn.: Dave DeMent

Test Method: 8015M
8020

Prep Method: 5030

Gas/BTEX

Sample ID:	**TN-122-W**	Lab Sample ID:	**1999-12-0033-002**
Project:	6209-015.02 2756 Main Street	Received:	12/02/1999 12:27
		Extracted:	12/06/1999 10:00
Sampled:	12/02/1999 09:30	QC-Batch:	1999/12/06-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	460	50	ug/L	1.00	12/06/1999 10:00	
Benzene	8.3	0.50	ug/L	1.00	12/06/1999 10:00	
Toluene	4.9	0.50	ug/L	1.00	12/06/1999 10:00	
Ethyl benzene	11	0.50	ug/L	1.00	12/06/1999 10:00	
Xylene(s)	26	0.50	ug/L	1.00	12/06/1999 10:00	
Surrogate(s)						
Trifluorotoluene	106.3	58-124	%	1.00	12/06/1999 10:00	
4-Bromofluorobenzene-FID	107.5	50-150	%	1.00	12/06/1999 10:00	

To: **ACC Environmental Consultants**

Attn.: Dave DeMent

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX

Method Blank | **Water** | **QC Batch # 1999/12/06-01.01**

MB: 1999/12/06-01.01-001

Date Extracted: 12/06/1999 08:01

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	12/06/1999 08:01	
Benzene	ND	0.5	ug/L	12/06/1999 08:01	
Toluene	ND	0.5	ug/L	12/06/1999 08:01	
Ethyl benzene	ND	0.5	ug/L	12/06/1999 08:01	
Xylene(s)	ND	0.5	ug/L	12/06/1999 08:01	
Surrogate(s)					
Trifluorotoluene	106.4	58-124	%	12/06/1999 08:01	
4-Bromofluorobenzene-FID	79.8	50-150	%	12/06/1999 08:01	

To: **ACC Environmental Consultants**

Attn: Dave DeMent

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 1999/12/06-01.01**

LCS: 1999/12/06-01.01-002 Extracted: 12/06/1999 05:50 Analyzed: 12/06/1999 05:50

LCSD: 1999/12/06-01.01-003 Extracted: 12/06/1999 06:18 Analyzed: 12/06/1999 06:18

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	498	473	500	500	99.6	94.6	5.1	75-125	20		
Benzene	108	111	100.0	100.0	108.0	111.0	2.7	77-123	20		
Toluene	110	113	100.0	100.0	110.0	113.0	2.7	78-122	20		
Ethyl benzene	109	113	100.0	100.0	109.0	113.0	3.6	70-130	20		
Xylene(s)	329	339	300	300	109.7	113.0	3.0	75-125	20		
Surrogate(s)											
Trifluorotoluene	576	583	500	500	115.2	116.6		58-124			
4-Bromofluorobenzene-FI	456	415	500	500	91.2	83.0		50-150			

Gas/BTEX (Methanol Extraction)

ACC Environmental Consultants
7977 Capwell Drive, Suite 100
Oakland, CA 94621
Attn: Dave DeMent
Phone: (510) 638-8400 Fax: (510) 638-8404

Project #: 6209-015.02
Project: 2756 Main Street

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
TT-122-S	Soil	12/02/1999 09:30	3

To: **ACC Environmental Consultants**

Attn.: Dave DeMent

Test Method: 8015M
8020

Prep Method: 5030

Gas/BTEX (Methanol Extraction)

Sample ID:	**TT-122-S**	Lab Sample ID:	**1999-12-0033-003**
Project:	6209-015.02 2756 Main Street	Received:	12/02/1999 12:27
		Extracted:	12/04/1999 16:24
Sampled:	12/02/1999 09:30	QC-Batch:	1999/12/03-05.02
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	580	50	mg/Kg	5.00	12/04/1999 16:24	g
Benzene	ND	3.1	mg/Kg	5.00	12/04/1999 16:24	
Toluene	4.0	3.1	mg/Kg	5.00	12/04/1999 16:24	
Ethyl benzene	ND	3.1	mg/Kg	5.00	12/04/1999 16:24	
Xylene(s)	ND	3.1	mg/Kg	5.00	12/04/1999 16:24	
Surrogate(s)						
4-Bromofluorobenzene	150.0	58-124	%	1.00	12/04/1999 16:24	sh
4-Bromofluorobenzene-FID	726.8	58-124	%	1.00	12/04/1999 16:24	sh

To: **ACC Environmental Consultants**

Attn.: Dave DeMent

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX (Methanol Extraction)

Method Blank | **Soil** | **QC Batch # 1999/12/03-05.02**

MB: 1999/12/03-05.02-001

Date Extracted: 12/03/1999 09:54

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	10	mg/Kg	12/03/1999 09:54	
Benzene	ND	0.62	mg/Kg	12/03/1999 09:54	
Toluene	ND	0.62	mg/Kg	12/03/1999 09:54	
Ethyl benzene	ND	0.62	mg/Kg	12/03/1999 09:54	
Xylene(s)	ND	0.62	mg/Kg	12/03/1999 09:54	
Surrogate(s)					
Trifluorotoluene	108.0	53-125	%	12/03/1999 09:54	
4-Bromofluorobenzene-FID	110.0	58-124	%	12/03/1999 09:54	

To: **ACC Environmental Consultants**

Attn: Dave DeMent

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX (Methanol Extraction)

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 1999/12/03-05.02**

LCS: 1999/12/03-05.02-002 Extracted: 12/03/1999 10:02 Analyzed: 12/03/1999 10:02

LCSD: 1999/12/03-05.02-003 Extracted: 12/03/1999 10:51 Analyzed: 12/03/1999 10:51

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	0.714	0.691	0.625	0.625	114.2	110.6	3.2	75-125	35		
Benzene	0.105	0.111	0.125	0.125	84.0	88.8	5.6	77-123	35		
Toluene	0.136	0.146	0.125	0.125	108.8	116.8	7.1	78-122	35		
Ethyl benzene	0.122	0.128	0.125	0.125	97.6	102.4	4.8	70-130	35		
Xylene(s)	0.378	0.397	0.375	0.375	100.8	105.9	4.9	75-125	35		
Surrogate(s)											
Trifluorotoluene	122	107	100	100	122.0	107.0		53-125			
4-Bromofluorobenzene-Fl	99.1	104	100	100	99.1	104.0		58-124			

To: **ACC Environmental Consultants**

Attn:Dave DeMent

Test Method: 8020
8015M

Prep Method: 5030

Legend & Notes

Gas/BTEX (Methanol Extraction)

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

sh

Surrogate recoveries were higher than QC limits due to matrix interference.

Total Lead

ACC Environmental Consultants

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn: Dave DeMent

Phone: (510) 638-8400 Fax: (510) 638-8404

Project #: 6209-015.02

Project: 2756 Main Street

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
TT-122-S	Soil	12/02/1999 09:30	3

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 6010B
Prep Method: 3050B

Total Lead

Sample ID:	**TT-122-S**	Lab Sample ID:	**1999-12-0033-003**
Project:	6209-015.02 2756 Main Street	Received:	12/02/1999 12:27
		Extracted:	12/03/1999 08:17
Sampled:	12/02/1999 09:30	QC-Batch:	1999/12/03-03.15
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	13	5.0	mg/Kg	1.00	12/03/1999 14:51	

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 6010B
Prep Method: 3050B

Batch QC Report
Total Lead

Method Blank	**Soil**	**QC Batch # 1999/12/03-03.15**
MB: 1999/12/03-03.15-052		Date Extracted: 12/03/1999 08:17

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Lead	ND	1.0	mg/Kg	12/03/1999 12:58	

To: **ACC Environmental Consultants**

Attn: Dave DeMent

Test Method: 6010B

Prep Method: 3050B

Batch QC Report

Total Lead

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 1999/12/03-03.15**

LCS: 1999/12/03-03.15-053 Extracted: 12/03/1999 08:17 Analyzed: 12/03/1999 13:02

LCSD: 1999/12/03-03.15-054 Extracted: 12/03/1999 08:17 Analyzed: 12/03/1999 13:05

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Lead	95.2	96.8	100.0	100.0	95.2	96.8	1.7	80-120	20		

Total Extractable Petroleum Hydrocarbons (TEPH)

ACC Environmental Consultants

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn: Dave DeMent

Phone: (510) 638-8400 Fax: (510) 638-8404

Project #: 6209-015.02

Project: 2756 Main Street

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
TS-122-W	Water	12/02/1999 09:30	1
TN-122-W	Water	12/02/1999 09:30	2
TT-122-S	Soil	12/02/1999 09:30	3

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8015m
Prep Method: 3550/8015M
3510/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	**TS-122-W**	Lab Sample ID:	**1999-12-0033-001**
Project:	6209-015.02 2756 Main Street	Received:	12/02/1999 12:27
		Extracted:	12/02/1999 09:00
Sampled:	12/02/1999 09:30	QC-Batch:	1999/12/02-01.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1600	50	ug/L	1.00	12/04/1999 06:03	ndp
Motor Oil	2900	500	ug/L	1.00	12/04/1999 06:03	
Surrogate(s)						
o-Terphenyl	123.2	60-130	%	1.00	12/04/1999 06:03	

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8015m
Prep Method: 3550/8015M
3510/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	**TN-122-W**	Lab Sample ID:	**1999-12-0033-002**
Project:	6209-015.02 2756 Main Street	Received:	12/02/1999 12:27
		Extracted:	12/02/1999 09:00
Sampled:	12/02/1999 09:30	QC-Batch:	1999/12/02-01.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	2900	50	ug/L	1.00	12/04/1999 02:11	ndp
Motor Oil	960	500	ug/L	1.00	12/04/1999 02:11	
Surrogate(s)						
o-Terphenyl	96.4	60-130	%	1.00	12/04/1999 02:11	

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8015m
Prep Method: 3550/8015M
3510/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	**TT-122-S**	Lab Sample ID:	**1999-12-0033-003**
Project:	6209-015.02 2756 Main Street	Received:	12/02/1999 12:27
		Extracted:	12/02/1999 09:00
Sampled:	12/02/1999 09:30	QC-Batch:	1999/12/02-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	22	1.0	mg/Kg	1.00	12/04/1999 05:16	ed
Motor Oil	ND	50	mg/Kg	1.00	12/04/1999 05:16	
Surrogate(s)						
o-Terphenyl	90.0	60-130	%	1.00	12/04/1999 05:16	

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8015m
Prep Method: 3550/8015M
3510/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank **Water** **QC Batch # 1999/12/02-01.10**

MB: 1999/12/02-01.10-001 Date Extracted: 12/02/1999 08:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	12/02/1999 21:15	
Motor Oil	ND	500	ug/L	12/02/1999 21:15	
Surrogate(s)					
o-Terphenyl	95.0	60-130	%	12/02/1999 21:15	

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8015m
Prep Method: 3550/8015M
3510/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank **Soil** **QC Batch # 1999/12/02-02.10**

MB: 1999/12/02-02.10-001 Date Extracted: 12/02/1999 08:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	12/04/1999 00:39	
Motor Oil	ND	50	mg/Kg	12/04/1999 00:39	
Surrogate(s)					
o-Terphenyl	93.0	60-130	%	12/04/1999 00:39	

To: **ACC Environmental Consultants**

Attn: Dave DeMent

Test Method: 8015m

Prep Method: 3510/8015M
3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 1999/12/02-01.10**

LCS: 1999/12/02-01.10-002 Extracted: 12/02/1999 08:00 Analyzed: 12/03/1999 15:17

LCSD: 1999/12/02-01.10-003 Extracted: 12/02/1999 08:00 Analyzed: 12/03/1999 15:53

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	1040	1050	1250	1250	83.2	84.0	1.0	60-130	25		
Surrogate(s)											
o-Terphenyl	22.0	22.3	20.0	20.0	110.0	111.5		60-130			

To: **ACC Environmental Consultants**

Attn: Dave DeMent

Test Method: 8015m

Prep Method: 3510/8015M
3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 1999/12/02-02.10**

LCS: 1999/12/02-02.10-002 Extracted: 12/02/1999 08:00 Analyzed: 12/03/1999 15:17

LCSD: 1999/12/02-02.10-003 Extracted: 12/02/1999 08:00 Analyzed: 12/03/1999 15:53

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	40.8	42.1	41.7	41.7	97.8	101.0	3.2	60-130	25		
Surrogate(s)											
o-Terphenyl	19.4	19.3	20.0	20.0	97.0	96.5		60-130			

To: **ACC Environmental Consultants**
Attn:Dave DeMent

Test Method: 8015m
Prep Method: 3510/8015M
3550/8015M

Legend & Notes

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte Flags

ed
Hydrocarbon reported is in the early Diesel range, and does not match our Diesel standard

ndp
Hydrocarbon reported does not match the pattern of our Diesel standard

CHROMALAB, INC.

99120033

1220 Quarry Lane • Pleasanton, California 94566-4756
510/484-1919 • Facsimile 510/484-1096

RUSH Chain of Custody

Environmental Services (SDB) (DOHS 1094)

DATE 12/2/99 PAGE 1 OF 1

PROJ MGR Dave DeMent
COMPANY ACC
ADDRESS 7977 Capwell
Oakland CA 94621

SAMPLERS (SIGNATURE) Neil Doran
(PHONE NO.) 510-638-8400
(FAX NO.) -8404

ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPH - D. MO) (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)		LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)			NUMBER OF CONTAINERS
TS-122-W	12/2/99	09:30	H_2O	cold/HCl		X	X																	3
TN-122-W	12/2/99	09:30	H_2O	cold/HCl		X	X																	W
TT-122-S	12/2/99	09:30	soil	cold		X	X														X			1

PROJECT INFORMATION

PROJECT NAME: 2756 Main Street
PROJECT NUMBER: 6209-015.02
P.O. #

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	
HEAD SPACE	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

TAT: STANDARD 5-DAY | | | 24 | (48) | 72 | OTHER

SPECIAL INSTRUCTIONS/COMMENTS:
* Please analyze H_2O for gas/BTEX & TEPH as D. & MO
+ Please analyze soil for same plus Total Lead

RELINQUISHED BY 1.	RELINQUISHED BY 2	RELINQUISHED BY 3
Neil Doran 11:30 (SIGNATURE) (TIME)	(SIGNATURE) (TIME)	Heather Sobky 12:15 (SIGNATURE) (TIME)
Neil Doran 12/2/99 (PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	Heather Sobky 12/2/99 (PRINTED NAME) (DATE)
ACC (COMPANY)	(COMPANY)	ACC (COMPANY)

RECEIVED BY 1.	RECEIVED BY 2	RECEIVED BY (LABORATORY) 3
Heather Sobky 11:38 (SIGNATURE) (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) 12:15 (TIME)
Heather Sobky 12.2.99 (PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	CRISELDA 12/02/99 (PRINTED NAME) (DATE)
ACC (COMPANY)	(COMPANY)	(LAB)

ACC Environmental Consultants
7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn.: Mr. Dave DeMent

Project: 6209-015-2
Main & Singleton

Dear Mr. DeMent,

Attached is our report for your samples received on Monday December 6, 1999
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after January 5, 2000 unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919

Sincerely,

Vincent Vancil

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-12-0104

Halogenated Volatile Organics Compounds

ACC Environmental Consultants

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn: Dave DeMent

Phone: (510) 638-8400 Fax: (510) 638-8404

Project #: 6209-015-2

Project: Main & Singleton

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MAINST-126-W	Water	12/06/1999 12:30	6

To: ACC Environmental Consultants
Attn.: Dave DeMent

Test Method: 8260A
Prep Method: 5030

Halogenated Volatile Organics Compounds

Sample ID: MAINST-126-W
Lab Sample ID: 1999-12-0104-006

Project: 6209-015-2
Main & Singleton

Received: 12/06/1999 16:10

Extracted: 12/07/1999 15:20

Sampled: 12/06/1999 12:30

QC-Batch: 1999/12/07-01.27

Matrix: Water

Sample/Analysis Flag: lm (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	2.0	ug/L	4.00	12/07/1999 15:20	
Vinyl chloride	ND	2.0	ug/L	4.00	12/07/1999 15:20	
Chloroethane	ND	4.0	ug/L	4.00	12/07/1999 15:20	
Trichlorofluoromethane	ND	2.0	ug/L	4.00	12/07/1999 15:20	
1,1-Dichloroethene	ND	2.0	ug/L	4.00	12/07/1999 15:20	
Methylene chloride	ND	20	ug/L	4.00	12/07/1999 15:20	
trans-1,2-Dichloroethene	ND	2.0	ug/L	4.00	12/07/1999 15:20	
cis-1,2-Dichloroethene	ND	2.0	ug/L	4.00	12/07/1999 15:20	
1,1-Dichloroethane	ND	2.0	ug/L	4.00	12/07/1999 15:20	
Chloroform	ND	2.0	ug/L	4.00	12/07/1999 15:20	
1,1,1-Trichloroethane	ND	2.0	ug/L	4.00	12/07/1999 15:20	
Carbon tetrachloride	ND	2.0	ug/L	4.00	12/07/1999 15:20	
1,2-Dichloroethane	ND	2.0	ug/L	4.00	12/07/1999 15:20	
Trichloroethene	ND	2.0	ug/L	4.00	12/07/1999 15:20	
1,2-Dichloropropane	ND	2.0	ug/L	4.00	12/07/1999 15:20	
Bromodichloromethane	ND	4.0	ug/L	4.00	12/07/1999 15:20	
2-Chloroethylvinyl ether	ND	2.0	ug/L	4.00	12/07/1999 15:20	
trans-1,3-Dichloropropene	ND	2.0	ug/L	4.00	12/07/1999 15:20	
cis-1,3-Dichloropropene	ND	2.0	ug/L	4.00	12/07/1999 15:20	
1,1,2-Trichloroethane	ND	2.0	ug/L	4.00	12/07/1999 15:20	
Tetrachloroethene	ND	2.0	ug/L	4.00	12/07/1999 15:20	
Dibromochloromethane	ND	2.0	ug/L	4.00	12/07/1999 15:20	
Chlorobenzene	ND	2.0	ug/L	4.00	12/07/1999 15:20	
Bromoform	ND	2.0	ug/L	4.00	12/07/1999 15:20	
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L	4.00	12/07/1999 15:20	
1,3-Dichlorobenzene	ND	2.0	ug/L	4.00	12/07/1999 15:20	
1,4-Dichlorobenzene	ND	2.0	ug/L	4.00	12/07/1999 15:20	
1,2-Dichlorobenzene	ND	2.0	ug/L	4.00	12/07/1999 15:20	
Trichlorotrifluoroethane	ND	2.0	ug/L	4.00	12/07/1999 15:20	
Chloromethane	ND	4.0	ug/L	4.00	12/07/1999 15:20	
Bromomethane	ND	4.0	ug/L	4.00	12/07/1999 15:20	
Surrogate(s)						
4-Bromofluorobenzene	98.7	74-121	%	1.00	12/07/1999 15:20	

To: **ACC Environmental Consultants**

Attn.: Dave DeMent

Test Method: 8260A

Prep Method: 5030

Halogenated Volatile Organics Compounds

Sample ID:	**MAINST-126-W**	Lab Sample ID:	**1999-12-0104-006**
Project:	6209-015-2 Main & Singleton	Received:	12/06/1999 16:10
		Extracted:	12/07/1999 15:20
Sampled:	12/06/1999 12:30	QC-Batch:	1999/12/07-01.27
Matrix:	Water		

Sample/Analysis Flag: lm (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Surrogate(s)						
1,2-Dichloroethane-d4	109.8	70-121	%	1.00	12/07/1999 15:20	
Toluene-d8	96.7	81-117	%	1.00	12/07/1999 15:20	

To: **ACC Environmental Consultants** Test Method: 8260A

Attn.: Dave DeMent Prep Method: 5030

Batch QC Report

Halogenated Volatile Organics Compounds

Method Blank **Water** **QC Batch # 1999/12/07-01.27**

MB: 1999/12/07-01.27-001 Date Extracted: 12/07/1999 13:03

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Bromodichloromethane	ND	0.5	ug/L	12/07/1999 13:03	
Bromoform	ND	0.5	ug/L	12/07/1999 13:03	
Bromomethane	ND	1.0	ug/L	12/07/1999 13:03	
Carbon tetrachloride	ND	0.5	ug/L	12/07/1999 13:03	
Chlorobenzene	ND	0.5	ug/L	12/07/1999 13:03	
Chloroethane	ND	1.0	ug/L	12/07/1999 13:03	
2-Chloroethylvinyl ether	ND	0.5	ug/L	12/07/1999 13:03	
Chloroform	ND	0.5	ug/L	12/07/1999 13:03	
Chloromethane	ND	1.0	ug/L	12/07/1999 13:03	
Dibromochloromethane	ND	0.5	ug/L	12/07/1999 13:03	
1,2-Dichlorobenzene	ND	0.5	ug/L	12/07/1999 13:03	
1,3-Dichlorobenzene	ND	0.5	ug/L	12/07/1999 13:03	
1,4-Dichlorobenzene	ND	0.5	ug/L	12/07/1999 13:03	
Dichlorodifluoromethane	ND	0.5	ug/L	12/07/1999 13:03	
1,1-Dichloroethane	ND	0.5	ug/L	12/07/1999 13:03	
1,2-Dichloroethane	ND	0.5	ug/L	12/07/1999 13:03	
1,1-Dichloroethene	ND	0.5	ug/L	12/07/1999 13:03	
cis-1,2-Dichloroethene	ND	0.5	ug/L	12/07/1999 13:03	
trans-1,2-Dichloroethene	ND	0.5	ug/L	12/07/1999 13:03	
1,2-Dichloropropane	ND	0.5	ug/L	12/07/1999 13:03	
cis-1,3-Dichloropropene	ND	0.5	ug/L	12/07/1999 13:03	
trans-1,3-Dichloropropene	ND	0.5	ug/L	12/07/1999 13:03	
Methylene chloride	ND	5.0	ug/L	12/07/1999 13:03	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	12/07/1999 13:03	
Tetrachloroethene	ND	0.5	ug/L	12/07/1999 13:03	
1,1,1-Trichloroethane	ND	0.5	ug/L	12/07/1999 13:03	
1,1,2-Trichloroethane	ND	0.5	ug/L	12/07/1999 13:03	
Trichloroethene	ND	0.5	ug/L	12/07/1999 13:03	
Vinyl chloride	ND	0.5	ug/L	12/07/1999 13:03	
Trichlorotrifluoroethane	ND	0.5	ug/L	12/07/1999 13:03	
Trichlorofluoromethane	ND	2.0	ug/L	12/07/1999 13:03	
Surrogate(s)					
4-Bromofluorobenzene	95.4	86-115	%	12/07/1999 13:03	
1,2-Dichloroethane-d4	107.8	76-114	%	12/07/1999 13:03	
Toluene-d8	95.8	88-110	%	12/07/1999 13:03	

To: ACC Environmental Consultants
Attn: Dave DeMent

Test Method: 8260A
Prep Method: 5030

Batch QC Report

Halogenated Volatile Organics Compounds

Laboratory Control Spike (LCS/LCSD) — **Water** — **QC Batch # 1999/12/07-01.27**

LCS: 1999/12/07-01.27-002 Extracted: 12/07/1999 11:40 Analyzed: 12/07/1999 11:40
LCSD: 1999/12/07-01.27-003 Extracted: 12/07/1999 12:26 Analyzed: 12/07/1999 12:26

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Chlorobenzene	57.5	55.7	50.0	50.0	115.0	111.4	3.2	61-121	20		
1,1-Dichloroethene	47.0	47.0	50.0	50.0	94.0	94.0	0.0	65-125	20		
Trichloroethene	43.7	43.6	50.0	50.0	87.4	87.2	0.2	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	498	500	500	500	99.6	100.0		86-115			
1,2-Dichloroethane-d4	554	545	500	500	110.8	109.0		76-114			
Toluene-d8	490	491	500	500	98.0	98.2		88-110			

To: **ACC Environmental Consultants**

Attn:Dave DeMent

Test Method: 8260A

Prep Method: 5030

Legend & Notes

Halogenated Volatile Organics Compounds

Analysis Flags

lrn

Reporting limits raised due to high level of non-target analyte materials.

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-12-0104

Semi-volatile Organic Compounds

ACC Environmental Consultants

Attn: Dave DeMent

Project #: 6209-015-2

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: Main & Singleton

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MAINST-126-W	Water	12/06/1999 12:30	6

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8270A
Prep Method: 3510/8270A

Semi-volatile Organic Compounds

Sample ID: **MAINST-126-W**
Lab Sample.ID: **1999-12-0104-006**

Project: 6209-015-2
Main & Singleton

Received: 12/06/1999 16:10

Extracted: 12/06/1999 17:05

Sampled: 12/06/1999 12:30

QC-Batch: 1999/12/06-02.11

Matrix: Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Bis(2-chloroethyl)ether	ND	2.0	ug/L	1.00	12/07/1999 16:15	
2-Chlorophenol	ND	2.0	ug/L	1.00	12/07/1999 16:15	
1,3-Dichlorobenzene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
1,4-Dichlorobenzene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Benzyl alcohol	ND	5.0	ug/L	1.00	12/07/1999 16:15	
1,2-Dichlorobenzene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
2-Methylphenol	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Bis(2-chloroisopropyl) ether	ND	2.0	ug/L	1.00	12/07/1999 16:15	
4-Methylphenol	ND	2.0	ug/L	1.00	12/07/1999 16:15	
N-Nitroso-di-n-propylamine	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Hexachloroethane	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Nitrobenzene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Isophorone	ND	2.0	ug/L	1.00	12/07/1999 16:15	
2-Nitrophenol	ND	2.0	ug/L	1.00	12/07/1999 16:15	
2,4-Dimethylphenol	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Bis(2-chloroethoxy) methane	ND	5.0	ug/L	1.00	12/07/1999 16:15	
2,4-Dichlorophenol	ND	2.0	ug/L	1.00	12/07/1999 16:15	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Naphthalene	4.1	2.0	ug/L	1.00	12/07/1999 16:15	
4-Chloroaniline	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Hexachlorobutadiene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
4-Chloro-3-methylphenol	ND	5.0	ug/L	1.00	12/07/1999 16:15	
2-Methylnaphthalene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Hexachlorocyclopentadiene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
2,4,6-Trichlorophenol	ND	2.0	ug/L	1.00	12/07/1999 16:15	
2,4,5-Trichlorophenol	ND	2.0	ug/L	1.00	12/07/1999 16:15	
2-Chloronaphthalene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
2-Nitroaniline	ND	10	ug/L	1.00	12/07/1999 16.15	
Dimethyl phthalate	ND	5 0	ug/L	1.00	12/07/1999 16:15	
Acenaphthylene	ND	2 0	ug/L	1.00	12/07/1999 16:15	
3-Nitroaniline	ND	10	ug/L	1.00	12/07/1999 16:15	
Acenaphthene	ND	2.0	ug/L	1.00	12/07/1999 16.15	
2,4-Dinitrophenol	ND	10	ug/L	1.00	12/07/1999 16:15	
4-Nitrophenol	ND	10	ug/L	1.00	12/07/1999 16:15	

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8270A
Prep Method: 3510/8270A

Semi-volatile Organic Compounds

Sample ID: **MAINST-126-W**
Lab Sample ID: **1999-12-0104-006**

Project: 6209-015-2
Main & Singleton

Received: 12/06/1999 16:10
Extracted: 12/06/1999 17:05
QC-Batch: 1999/12/06-02.11

Sampled: 12/06/1999 12:30
Matrix: Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dibenzofuran	ND	2.0	ug/L	1.00	12/07/1999 16:15	
2,4-Dinitrotoluene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
2,6-Dinitrotoluene	ND	5.0	ug/L	1.00	12/07/1999 16:15	
Diethyl phthalate	ND	5.0	ug/L	1.00	12/07/1999 16:15	
4-Chlorophenyl phenyl ether	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Fluorene	ND	5.0	ug/L	1.00	12/07/1999 16:15	
4-Nitroaniline	ND	10	ug/L	1.00	12/07/1999 16:15	
2-Methyl-4,6-dinitrophenol	ND	10	ug/L	1.00	12/07/1999 16:15	
N-Nitrosodiphenylamine	ND	2.0	ug/L	1.00	12/07/1999 16:15	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1.00	12/07/1999 16:15	
Hexachlorobenzene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Pentachlorophenol	ND	10	ug/L	1.00	12/07/1999 16:15	
Phenanthrene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Anthracene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Di-n-butyl phthalate	ND	5.0	ug/L	1.00	12/07/1999 16:15	
Fluoranthene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Pyrene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Butyl benzyl phthalate	ND	5.0	ug/L	1.00	12/07/1999 16:15	
3,3-Dichlorobenzidine	ND	5.0	ug/L	1.00	12/07/1999 16:15	
Benzo(a)anthracene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
bis(2-Ethylhexyl) phthalate	ND	5.0	ug/L	1.00	12/07/1999 16:15	
Chrysene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Di-n-octyl phthalate	ND	5.0	ug/L	1.00	12/07/1999 16:15	
Benzo(b)fluoranthene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Benzo(k)fluoranthene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Benzo(a)pyrene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Indeno(1,2,3-c,d)pyrene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Dibenzo(a,h)anthracene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Benzo(g,h,i)perylene	ND	2.0	ug/L	1.00	12/07/1999 16:15	
Benzoic acid	ND	10	ug/L	1.00	12/07/1999 16:15	
Surrogate(s)						
Nitrobenzene-d5	63.4	35-114	%	1.00	12/07/1999 16:15	
2-Fluorobiphenyl	66.3	43-116	%	1.00	12/07/1999 16:15	
p-Terphenyl-d14	81.0	33-141	%	1.00	12/07/1999 16:15	
Phenol-d5	18.5	10-110	%	1.00	12/07/1999 16:15	

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8270A
Prep Method: 3510/8270A

Semi-volatile Organic Compounds

Sample ID:	**MAINST-126-W**	Lab Sample ID:	**1999-12-0104-006**
Project:	6209-015-2 Main & Singleton	Received:	12/06/1999 16:10
		Extracted:	12/06/1999 17:05
Sampled:	12/06/1999 12:30	QC-Batch:	1999/12/06-02.11
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Surrogate(s)						
2-Fluorophenol	28.6	25-100	%	1.00	12/07/1999 16:15	
2,4,6-Tribromophenol	48.0	10-123	%	1.00	12/07/1999 16:15	

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8270A
Prep Method: 3510/8270A

Batch QC Report
Semi-volatile Organic Compounds

Method Blank | **Water** | **QC Batch # 1999/12/06-02.11**

MB: 1999/12/06-02.11-001

Date Extracted: 12/06/1999

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Phenol	ND	2.0	ug/L	12/06/1999 14:35	
Bis(2-chloroethyl)ether	ND	2.0	ug/L	12/06/1999 14:35	
2-Chlorophenol	ND	2.0	ug/L	12/06/1999 14:35	
1,3-Dichlorobenzene	ND	2.0	ug/L	12/06/1999 14:35	
1,4-Dichlorobenzene	ND	2.0	ug/L	12/06/1999 14:35	
Benzyl alcohol	ND	5.0	ug/L	12/06/1999 14:35	
1,2-Dichlorobenzene	ND	2.0	ug/L	12/06/1999 14:35	
2-Methylphenol	ND	2.0	ug/L	12/06/1999 14:35	
Bis(2-chloroisopropyl) ether	ND	2.0	ug/L	12/06/1999 14:35	
4-Methylphenol	ND	2.0	ug/L	12/06/1999 14:35	
N-Nitroso-di-n-propylamine	ND	2.0	ug/L	12/06/1999 14:35	
Hexachloroethane	ND	2.0	ug/L	12/06/1999 14:35	
Nitrobenzene	ND	2.0	ug/L	12/06/1999 14:35	
Isophorone	ND	2.0	ug/L	12/06/1999 14:35	
2-Nitrophenol	ND	2.0	ug/L	12/06/1999 14:35	
2,4-Dimethylphenol	ND	2.0	ug/L	12/06/1999 14:35	
Bis(2-chloroethoxy) methane	ND	5.0	ug/L	12/06/1999 14:35	
2,4-Dichlorophenol	ND	2.0	ug/L	12/06/1999 14:35	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	12/06/1999 14:35	
Naphthalene	ND	2.0	ug/L	12/06/1999 14:35	
4-Chloroaniline	ND	2.0	ug/L	12/06/1999 14:35	
Hexachlorobutadiene	ND	2.0	ug/L	12/06/1999 14:35	
4-Chloro-3-methylphenol	ND	5.0	ug/L	12/06/1999 14:35	
2-Methylnaphthalene	ND	2.0	ug/L	12/06/1999 14:35	
Hexachlorocyclopentadiene	ND	2.0	ug/L	12/06/1999 14:35	
2,4,6-Trichlorophenol	ND	2.0	ug/L	12/06/1999 14:35	
2,4,5-Trichlorophenol	ND	2.0	ug/L	12/06/1999 14:35	
2-Chloronaphthalene	ND	2.0	ug/L	12/06/1999 14:35	
2-Nitroaniline	ND	10	ug/L	12/06/1999 14:35	
Dimethyl phthalate	ND	5.0	ug/L	12/06/1999 14:35	
Acenaphthylene	ND	2.0	ug/L	12/06/1999 14:35	
3-Nitroaniline	ND	10	ug/L	12/06/1999 14:35	
Acenaphthene	ND	2.0	ug/L	12/06/1999 14:35	
2,4-Dinitrophenol	ND	10	ug/L	12/06/1999 14:35	
4-Nitrophenol	ND	10	ug/L	12/06/1999 14:35	
Dibenzofuran	ND	2.0	ug/L	12/06/1999 14:35	
2,4-Dinitrotoluene	ND	2.0	ug/L	12/06/1999 14:35	

To: **ACC Environmental Consultants** Test Method: 8270A

Attn.: Dave DeMent Prep Method: 3510/8270A

Batch QC Report

Semi-volatile Organic Compounds

Method Blank **Water** **QC Batch # 1999/12/06-02.11**

MB: 1999/12/06-02.11-001 Date Extracted: 12/06/1999

Compound	Result	Rep.Limit	Units	Analyzed	Flag
2,6-Dinitrotoluene	ND	5.0	ug/L	12/06/1999 14:35	
Diethyl phthalate	ND	5.0	ug/L	12/06/1999 14:35	
4-Chlorophenyl phenyl ether	ND	2.0	ug/L	12/06/1999 14:35	
Fluorene	ND	5.0	ug/L	12/06/1999 14:35	
4-Nitroaniline	ND	10	ug/L	12/06/1999 14:35	
2-Methyl-4,6-dinitrophenol	ND	10	ug/L	12/06/1999 14:35	
N-Nitrosodiphenylamine	ND	2.0	ug/L	12/06/1999 14:35	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	12/06/1999 14:35	
Hexachlorobenzene	ND	2.0	ug/L	12/06/1999 14:35	
Pentachlorophenol	ND	10	ug/L	12/06/1999 14:35	
Phenanthrene	ND	2.0	ug/L	12/06/1999 14:35	
Anthracene	ND	2.0	ug/L	12/06/1999 14:35	
Di-n-butyl phthalate	ND	5.0	ug/L	12/06/1999 14:35	
Fluoranthene	ND	2.0	ug/L	12/06/1999 14:35	
Pyrene	ND	2.0	ug/L	12/06/1999 14:35	
Butyl benzyl phthalate	ND	5.0	ug/L	12/06/1999 14:35	
3,3-Dichlorobenzidine	ND	5.0	ug/L	12/06/1999 14:35	
Benzo(a)anthracene	ND	2.0	ug/L	12/06/1999 14:35	
bis(2-Ethylhexyl) phthalate	ND	5.0	ug/L	12/06/1999 14:35	
Chrysene	ND	2.0	ug/L	12/06/1999 14:35	
Di-n-octyl phthalate	ND	5.0	ug/L	12/06/1999 14:35	
Benzo(b)fluoranthene	ND	2.0	ug/L	12/06/1999 14:35	
Benzo(k)fluoranthene	ND	2.0	ug/L	12/06/1999 14:35	
Benzo(a)pyrene	ND	2.0	ug/L	12/06/1999 14:35	
Indeno(1,2,3-c,d)pyrene	ND	2.0	ug/L	12/06/1999 14:35	
Dibenzo(a,h)anthracene	ND	2.0	ug/L	12/06/1999 14:35	
Benzo(g,h,i)perylene	ND	2.0	ug/L	12/06/1999 14:35	
Benzoic acid	ND	10	ug/L	12/06/1999 14:35	
Surrogate(s)					
Nitrobenzene-d5	60 0	35-114	%	12/06/1999 14:35	
2-Fluorobiphenyl	59.6	43-116	%	12/06/1999 14:35	
p-Terphenyl-d14	87.6	33-141	%	12/06/1999 14:35	
Phenol-d5	29.6	10-110	%	12/06/1999 14:35	
2-Fluorophenol	41.8	25-100	%	12/06/1999 14:35	
2,4,6-Tribromophenol	35.6	10-123	%	12/06/1999 14:35	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-12-0104

To: ACC Environmental Consultants
Attn: Dave DeMent

Test Method: 8270A
Prep Method: 3510/8270A

Batch QC Report

Semi-volatile Organic Compounds

Laboratory Control Spike (LCS/LCSD) — **Water** — **QC Batch # 1999/12/06-02.11**

LCS: 1999/12/06-02.11-002 Extracted: 12/06/1999 Analyzed: 12/06/1999 15:20
LCSD: 1999/12/06-02.11-003 Extracted: 12/06/1999 Analyzed: 12/06/1999 16:04

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Phenol	20.8	21.3	60.0	60.0	34.7	35.5	2.3	12-89	35		
2-Chlorophenol	28.8	33.6	60.0	60.0	48.0	56.0	15.4	23-134	25		
1,4-Dichlorobenzene	14.0	16.3	30.0	30.0	46.7	54.3	15.0	36-97	30		
N-Nitroso-di-n-propylamin	14.1	16.6	30.0	30.0	47.0	55.3	16.2	10-130	34		
1,2,4-Trichlorobenzene	14.7	16.5	30.0	30.0	49.0	55.0	11.5	44-142	35		
4-Chloro-3-methylphenol	42.8	48.2	60.0	60.0	71.3	80.3	11.9	22-147	31		
Acenaphthene	16.8	19.0	30.0	30.0	56.0	63.3	12.2	56-118	30		
4-Nitrophenol	22.5	22.3	60.0	60.0	37.5	37.2	0.8	1-51	35		
2,4-Dinitrotoluene	16.3	18.7	30.0	30.0	54.3	62.3	13.7	39-139	35		
Pentachlorophenol	28.6	33.2	60.0	60.0	47.7	55.3	14.8	45-125	35		
Pyrene	19.7	21.2	30.0	30.0	65.7	70.7	7.3	52-115	35		
Surrogate(s)											
Nitrobenzene-d5	15.9	17.5	25	25	63.6	70.0		35-114			
2-Fluorobiphenyl	15.2	16.9	25	25	60.8	67.6		43-116			
p-Terphenyl-d14	17.0	18.4	25	25	68.0	73.6		33-141			
Phenol-d5	17.8	17.7	50	50	35.6	35.4		10-110			
2-Fluorophenol	22.3	24.3	50	50	44.6	48.6		25-100			
2,4,6-Tribromophenol	20.2	23.7	50	50	40.4	47.4		10-123			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-12-0104

Gas/BTEX and MTBE

ACC Environmental Consultants

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn: Dave DeMent

Phone: (510) 638-8400 Fax: (510) 638-8404

Project #: 6209-015-2

Project: Main & Singleton

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SP-126-A	Soil	12/06/1999 12:30	1
SP-126-B	Soil	12/06/1999 12:30	2
SP-126-C	Soil	12/06/1999 12:30	3
SP-126-D	Soil	12/06/1999 12:30	4
MAINST-126-W	Water	12/06/1999 12:30	6

To: **ACC Environmental Consultants**

Attn.: Dave DeMent

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**SP-126-A**	Lab Sample ID:	**1999-12-0104-001**
Project:	6209-015-2 Main & Singleton	Received:	12/06/1999 16:10
		Extracted:	12/07/1999 09:47
Sampled:	12/06/1999 12:30	QC-Batch:	1999/12/07-01.04
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	12/07/1999 09:47	
Benzene	ND	0.0050	mg/Kg	1.00	12/07/1999 09:47	
Toluene	ND	0.0050	mg/Kg	1.00	12/07/1999 09:47	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	12/07/1999 09:47	
Xylene(s)	ND	0.0050	mg/Kg	1.00	12/07/1999 09:47	
MTBE	ND	0.0050	mg/Kg	1.00	12/07/1999 09:47	
Surrogate(s)						
Trifluorotoluene	55.3	53-125	%	1.00	12/07/1999 09:47	
Trifluorotoluene-FID	67.8	53-125	%	1.00	12/07/1999 09:47	

To: **ACC Environmental Consultants**

Attn.: Dave DeMent

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**SP-126-B**	Lab Sample ID:	**1999-12-0104-002**
Project:	6209-015-2 Main & Singleton	Received:	12/06/1999 16:10
		Extracted:	12/07/1999 10:14
Sampled:	12/06/1999 12:30	QC-Batch:	1999/12/07-01.04
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	12/07/1999 10:14	
Benzene	ND	0.0050	mg/Kg	1.00	12/07/1999 10:14	
Toluene	ND	0.0050	mg/Kg	1.00	12/07/1999 10:14	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	12/07/1999 10:14	
Xylene(s)	ND	0.0050	mg/Kg	1.00	12/07/1999 10:14	
MTBE	ND	0.0050	mg/Kg	1.00	12/07/1999 10:14	
Surrogate(s)						
Trifluorotoluene	68.7	53-125	%	1.00	12/07/1999 10:14	
4-Bromofluorobenzene-FID	75.0	58-124	%	1.00	12/07/1999 10:14	

To: **ACC Environmental Consultants**

Attn.: Dave DeMent

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**SP-126-C**	Lab Sample ID:	**1999-12-0104-003**
Project:	6209-015-2 Main & Singleton	Received:	12/06/1999 16:10
		Extracted:	12/07/1999 10:42
Sampled:	12/06/1999 12:30	QC-Batch:	1999/12/07-01.04
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	3.4	1.0	mg/Kg	1.00	12/07/1999 10:42	g
Benzene	ND	0.0050	mg/Kg	1.00	12/07/1999 10:42	
Toluene	ND	0.0050	mg/Kg	1.00	12/07/1999 10:42	
Ethyl benzene	0.027	0.0050	mg/Kg	1.00	12/07/1999 10:42	
Xylene(s)	0.070	0.0050	mg/Kg	1.00	12/07/1999 10:42	
MTBE	ND	0.0050	mg/Kg	1.00	12/07/1999 10:42	
Surrogate(s)						
4-Bromofluorobenzene	58.0	58-124	%	1.00	12/07/1999 10:42	
Trifluorotoluene-FID	64.4	53-125	%	1.00	12/07/1999 10:42	

To: **ACC Environmental Consultants**

Attn.: Dave DeMent

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**SP-126-D**	Lab Sample ID:	**1999-12-0104-004**
Project:	6209-015-2 Main & Singleton	Received:	12/06/1999 16:10
		Extracted:	12/07/1999 12:15
Sampled:	12/06/1999 12:30	QC-Batch:	1999/12/07-01.04
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1.1	1.0	mg/Kg	1.00	12/07/1999 12:15	g
Benzene	ND	0.0050	mg/Kg	1.00	12/07/1999 12:15	
Toluene	ND	0.0050	mg/Kg	1.00	12/07/1999 12:15	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	12/07/1999 12:15	
Xylene(s)	0.013	0.0050	mg/Kg	1.00	12/07/1999 12:15	
MTBE	ND	0.0050	mg/Kg	1.00	12/07/1999 12:15	
Surrogate(s)						
Trifluorotoluene	40.8	53-125	%	1.00	12/07/1999 12:15	sl
Trifluorotoluene-FID	62.9	53-125	%	1.00	12/07/1999 12:15	

To: **ACC Environmental Consultants**

Attn.: Dave DeMent

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MAINST-126-W**	Lab Sample ID:	**1999-12-0104-006**
Project:	6209-015-2 Main & Singleton	Received:	12/06/1999 16:10
		Extracted:	12/07/1999 11:26
Sampled:	12/06/1999 12:30	QC-Batch:	1999/12/07-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1200	50	ug/L	1.00	12/07/1999 11:26	g
Benzene	ND	0.50	ug/L	1.00	12/07/1999 11:26	
Toluene	2.0	0.50	ug/L	1.00	12/07/1999 11:26	
Ethyl benzene	2.1	0.50	ug/L	1.00	12/07/1999 11:26	
Xylene(s)	5.7	0.50	ug/L	1.00	12/07/1999 11:26	
MTBE	ND	5.0	ug/L	1.00	12/07/1999 11:26	
Surrogate(s)						
Trifluorotoluene	85.5	58-124	%	1.00	12/07/1999 11:26	
4-Bromofluorobenzene-FID	72.7	50-150	%	1.00	12/07/1999 11:26	

To: ACC Environmental Consultants
Test Method: 8020
8015M

Attn.: Dave DeMent
Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank | **Soil** | **QC Batch # 1999/12/07-01.04**

MB: 1999/12/07-01.04-001 | Date Extracted: 12/07/1999 05:19

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	12/07/1999 05:19	
Benzene	ND	0.0050	mg/Kg	12/07/1999 05:19	
Toluene	ND	0.0050	mg/Kg	12/07/1999 05:19	
Ethyl benzene	ND	0.0050	mg/Kg	12/07/1999 05:19	
Xylene(s)	ND	0.0050	mg/Kg	12/07/1999 05:19	
MTBE	ND	0.0050	mg/Kg	12/07/1999 05:19	
Surrogate(s)					
Trifluorotoluene	61.0	53-125	%	12/07/1999 05:19	
4-Bromofluorobenzene-FID	82.2	58-124	%	12/07/1999 05:19	

To: **ACC Environmental Consultants**

Attn.: Dave DeMent

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank | **Water** | **QC Batch # 1999/12/07-01.01**

MB: 1999/12/07-01.01-001 | Date Extracted: 12/07/1999 10:39

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	12/07/1999 10:39	
Benzene	ND	0.5	ug/L	12/07/1999 10:39	
Toluene	ND	0.5	ug/L	12/07/1999 10:39	
Ethyl benzene	ND	0.5	ug/L	12/07/1999 10:39	
Xylene(s)	ND	0.5	ug/L	12/07/1999 10:39	
MTBE	ND	5.0	ug/L	12/07/1999 10:39	
Surrogate(s)					
Trifluorotoluene	108.0	58-124	%	12/07/1999 10:39	
4-Bromofluorobenzene-FID	85.8	50-150	%	12/07/1999 10:39	

To: ACC Environmental Consultants

Test Method: 8020
8015M

Attn: Dave DeMent

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 1999/12/07-01.04**

LCS: 1999/12/07-01.04-002 Extracted: 12/07/1999 05:47 Analyzed: 12/07/1999 05:47

LCSD: 1999/12/07-01.04-003 Extracted: 12/07/1999 06:15 Analyzed: 12/07/1999 06:15

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	0.499	0.455	0.500	0.500	99.8	91.0	9.2	75-125	35		
Benzene	0.0867	0.0893	0.1000	0.1000	86.7	89.3	3.0	77-123	35		
Toluene	0.0889	0.0908	0.1000	0.1000	88.9	90.8	2.1	78-122	35		
Ethyl benzene	0.0893	0.0930	0.1000	0.1000	89.3	93.0	4.1	70-130	35		
Xylene(s)	0.260	0.274	0.300	0.300	86.7	91.3	5.2	75-125	35		
Surrogate(s)											
Trifluorotoluene	317	328	500	500	63.4	65.6		53-125			
4-Bromofluorobenzene-FI	405	391	500	500	81.0	78.2		58-124			

To: **ACC Environmental Consultants**

Attn: Dave DeMent

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 1999/12/07-01.01**

LCS: 1999/12/07-01.01-002 Extracted: 12/07/1999 08:48 Analyzed: 12/07/1999 08:48

LCSD: 1999/12/07-01.01-003 Extracted: 12/07/1999 09:15 Analyzed: 12/07/1999 09:15

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	557	504	500	500	111.4	100.8	10.0	75-125	20		
Benzene	111	115	100.0	100.0	111.0	115.0	3.5	77-123	20		
Toluene	112	117	100.0	100.0	112.0	117.0	4.4	78-122	20		
Ethyl benzene	110	116	100.0	100.0	110.0	116.0	5.3	70-130	20		
Xylene(s)	335	349	300	300	111.7	116.3	4.0	75-125	20		
Surrogate(s)											
Trifluorotoluene	550	588	500	500	110.0	117.6		58-124			
4-Bromofluorobenzene-FI	449	415	500	500	89.8	83.0		50-150			

To: ACC Environmental Consultants

Attn:Dave DeMent

Test Method: 8015M
8020

Prep Method: 5030

Legend & Notes

Gas/BTEX and MTBE

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

sl

Surrogate recoveries were lower than QC limit due to matrix interference, confirmed by reanalysis.

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-12-0104

Gas/BTEX (Methanol Extraction)

ACC Environmental Consultants	7977 Capwell Drive, Suite 100 Oakland, CA 94621
Attn: Dave DeMent	Phone: (510) 638-8400 Fax: (510) 638-8404
Project #: 6209-015-2	Project: Main & Singleton

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SP-126-E	Soil	12/06/1999 12:30	5

To: **ACC Environmental Consultants**

Attn.: Dave DeMent

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX (Methanol Extraction)

Sample ID:	**SP-126-E**	Lab Sample ID:	**1999-12-0104-005**
Project:	6209-015-2 Main & Singleton	Received:	12/06/1999 16:10
		Extracted:	12/07/1999 19:29
Sampled:	12/06/1999 12:30	QC-Batch:	1999/12/07-05.02
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	110	10	mg/Kg	1.00	12/07/1999 19:29	g
Benzene	ND	0.62	mg/Kg	1.00	12/07/1999 19:29	
Toluene	0.95	0.62	mg/Kg	1.00	12/07/1999 19:29	
Ethyl benzene	0.63	0.62	mg/Kg	1.00	12/07/1999 19:29	
Xylene(s)	1.6	0.62	mg/Kg	1.00	12/07/1999 19:29	
MTBE	ND	0.62	mg/Kg	1.00	12/07/1999 19:29	
Surrogate(s)						
4-Bromofluorobenzene	104.9	58-124	%	1.00	12/07/1999 19:29	
Trifluorotoluene-FID	273.2	53-125	%	1.00	12/07/1999 19:29	sh

To: ACC Environmental Consultants
Test Method: 8020 8015M

Attn.: Dave DeMent
Prep Method: 5030

Batch QC Report

Gas/BTEX (Methanol Extraction)

Method Blank | **Soil** | **QC Batch # 1999/12/07-05.02**

MB: 1999/12/07-05.02-001 | Date Extracted: 12/07/1999 10:16

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	10	mg/Kg	12/07/1999 10:16	
Benzene	ND	0.62	mg/Kg	12/07/1999 10:16	
Toluene	ND	0.62	mg/Kg	12/07/1999 10:16	
Ethyl benzene	ND	0.62	mg/Kg	12/07/1999 10:16	
Xylene(s)	ND	0.62	mg/Kg	12/07/1999 10:16	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-12-0104

To: **ACC Environmental Consultants**

Test Method: 8020
8015M

Attn: Dave DeMent

Prep Method: 5030

Batch QC Report

Gas/BTEX (Methanol Extraction)

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 1999/12/07-05.02**

LCS: 1999/12/07-05.02-002 Extracted: 12/07/1999 10:45 Analyzed: 12/07/1999 10:45

LCSD: 1999/12/07-05.02-003 Extracted: 12/07/1999 11:13 Analyzed: 12/07/1999 11:13

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	0.662	0.615	0.625	0.625	105.9	98.4	7.3	75-125	35		
Benzene	0.117	0.111	0.125	0.125	93.6	88.8	5.3	77-123	35		
Toluene	0.150	0.147	0.125	0.125	120.0	117.6	2.0	78-122	35		
Ethyl benzene	0.134	0.132	0.125	0.125	107.2	105.6	1.5	70-130	35		
Xylene(s)	0.357	0.353	0.375	0.375	95.2	94.1	1.2	75-125	35		

To: ACC Environmental Consultants

Attn:Dave DeMent

Test Method: 8020
8015M

Prep Method: 5030

Legend & Notes

Gas/BTEX (Methanol Extraction)

Analyte Flags

g — Hydrocarbon reported in the gasoline range does not match our gasoline standard.

sh — Surrogate recoveries were higher than QC limits due to matrix interference.

Soluble Metals

ACC Environmental Consultants

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn: Dave DeMent

Phone: (510) 638-8400 Fax: (510) 638-8404

Project #: 6209-015-2

Project: Main & Singleton

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MAINST-126-W	Water	12/06/1999 12:30	6

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID:	**MAINST-126-W**	Lab Sample ID:	**1999-12-0104-006**
Project:	6209-015-2 Main & Singleton	Received:	12/06/1999 16:10
		Extracted:	12/07/1999 07:20
Sampled:	12/06/1999 12:30	QC-Batch:	1999/12/07-01.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Cadmium	ND	0.0020	mg/L	1.00	12/07/1999 12:49	
Chromium	ND	0.0050	mg/L	1.00	12/07/1999 12:49	
Lead	ND	0.0050	mg/L	1.00	12/07/1999 12:49	
Nickel	0.0068	0.0050	mg/L	1.00	12/07/1999 12:49	
Zinc	0.039	0.010	mg/L	1.00	12/07/1999 12:49	

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 6010B
Prep Method: 3005A

Batch QC Report
Soluble Metals

Method Blank | **Water** | **QC Batch # 1999/12/07-01.15**

MB: 1999/12/07-01.15-035 | Date Extracted: 12/07/1999 07:20

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Cadmium	ND	0.0020	mg/L	12/07/1999 11:59	
Chromium	ND	0.0050	mg/L	12/07/1999 11:59	
Lead	ND	0.0050	mg/L	12/07/1999 11:59	
Nickel	ND	0.0050	mg/L	12/07/1999 11:59	
Zinc	ND	0.010	mg/L	12/07/1999 11:59	

To: ACC Environmental Consultants

Attn: Dave DeMent

Test Method: 6010B

Prep Method: 3005A

Batch QC Report

Soluble Metals

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 1999/12/07-01.15**

LCS: 1999/12/07-01.15-036 Extracted: 12/07/1999 07:20 Analyzed: 12/07/1999 12:03

LCSD: 1999/12/07-01.15-037 Extracted: 12/07/1999 07:20 Analyzed: 12/07/1999 12:07

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Cadmium	0.471	0.475	0.500	0.500	94.2	95.0	0.8	80-120	20		
Chromium	0.464	0.467	0.500	0.500	92.8	93.4	0.6	80-120	20		
Lead	0.478	0.482	0.500	0.500	95.6	96.4	0.8	80-120	20		
Nickel	0.479	0.482	0.500	0.500	95.8	96.4	0.6	80-120	20		
Zinc	0.499	0.505	0.500	0.500	99.8	101.0	1.2	80-120	20		

Total Dissolved Solids (TDS)

ACC Environmental Consultants

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn: Dave DeMent

Phone: (510) 638-8400 Fax: (510) 638-8404

Project #: 6209-015-2

Project: Main & Singleton

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MAINST-126-W	Water	12/06/1999 12:30	6

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-12-0104

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 160.1
Prep Method: 160.1

Total Dissolved Solids (TDS)

Sample ID: **MAINST-126-W**
Lab Sample ID: **1999-12-0104-006**

Project: 6209-015-2
Main & Singleton

Received: 12/06/1999 16:10

Extracted: 12/07/1999

Sampled: 12/06/1999 12:30
QC-Batch: 1999/12/07-01.28

Matrix: Water

Sample/Analysis Flag: o (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
TDS	2900	17	mg/L	1.70	12/07/1999	

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 160.1
Prep Method: 160.1

Batch QC Report
Total Dissolved Solids (TDS)

Method Blank | **Water** | **QC Batch # 1999/12/07-01.28**

MB: 1999/12/07-01.28-001 | Date Extracted: 12/07/1999

Compound	Result	Rep.Limit	Units	Analyzed	Flag
TDS	ND	10	mg/L	12/07/1999	

To: ACC Environmental Consultants
Attn: Dave DeMent

Test Method: 160.1
Prep Method: 160.1

Batch QC Report

Total Dissolved Solids (TDS)

Laboratory Control Spike (LCS/LCSD) — **Water** — **QC Batch # 1999/12/07-01.28**

LCS: 1999/12/07-01.28-002 Extracted: 12/07/1999 Analyzed: 12/07/1999
LCSD: 1999/12/07-01.28-003 Extracted: 12/07/1999 Analyzed: 12/07/1999

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
TDS	935	987	1000	1000	93.5	98.7	5.4	80-120	20		

To: ACC Environmental Consultants
Attn:Dave DeMent

Test Method: 160.1
Prep Method: 160.1

Legend & Notes

Total Dissolved Solids (TDS)

Analysis Flags

o

Reporting limits were raised due to high level of analyte present in the sample.

Total Extractable Petroleum Hydrocarbons (TEPH)

ACC Environmental Consultants

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn: Dave DeMent

Phone: (510) 638-8400 Fax: (510) 638-8404

Project #: 6209-015-2

Project: Main & Singleton

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SP-126-A	Soil	12/06/1999 12:30	1
SP-126-B	Soil	12/06/1999 12:30	2
SP-126-C	Soil	12/06/1999 12:30	3
SP-126-D	Soil	12/06/1999 12:30	4
SP-126-E	Soil	12/06/1999 12:30	5
MAINST-126-W	Water	12/06/1999 12:30	6

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8015m
Prep Method: 3510/8015M
3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	**SP-126-A**	Lab Sample ID:	**1999-12-0104-001**
Project:	6209-015-2 Main & Singleton	Received:	12/06/1999 16:10
		Extracted:	12/07/1999 08:00
Sampled:	12/06/1999 12:30	QC-Batch:	1999/12/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	64	2.0	mg/Kg	2.00	12/09/1999 06:25	ndp
Motor Oil	120	100	mg/Kg	2.00	12/09/1999 06:25	
Surrogate(s)						
o-Terphenyl	109.9	60-130	%	2.00	12/09/1999 06:25	

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8015m
Prep Method: 3510/8015M
3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	**SP-126-B**	Lab Sample ID:	**1999-12-0104-002**
Project:	6209-015-2 Main & Singleton	Received:	12/06/1999 16:10
		Extracted:	12/07/1999 08:00
Sampled:	12/06/1999 12:30	QC-Batch:	1999/12/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	34	1.0	mg/Kg	1.00	12/09/1999 00:19	ndp
Motor Oil	87	50	mg/Kg	1.00	12/09/1999 00:19	
Surrogate(s)						
o-Terphenyl	103.9	60-130	%	1.00	12/09/1999 00:19	

To: **ACC Environmental Consultants**

Attn.: Dave DeMent

Test Method: 8015m

Prep Method: 3510/8015M
3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	**SP-126-C**	Lab Sample ID:	**1999-12-0104-003**
Project:	6209-015-2 Main & Singleton	Received:	12/06/1999 16:10
		Extracted:	12/07/1999 08:00
Sampled:	12/06/1999 12:30	QC-Batch:	1999/12/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	42	2.0	mg/Kg	2.00	12/09/1999 09:20	ndp
Motor Oil	240	100	mg/Kg	2.00	12/09/1999 09:20	
Surrogate(s)						
o-Terphenyl	120.2	60-130	%	2.00	12/09/1999 09:20	

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8015m
Prep Method: 3510/8015M
3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	**SP-126-D**	Lab Sample ID:	**1999-12-0104-004**
Project:	6209-015-2 Main & Singleton	Received:	12/06/1999 16:10
		Extracted:	12/07/1999 08:00
Sampled:	12/06/1999 12:30	QC-Batch:	1999/12/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	55	1.0	mg/Kg	1.00	12/09/1999 01:32	ndp
Motor Oil	140	50	mg/Kg	1.00	12/09/1999 01:32	
Surrogate(s)						
o-Terphenyl	97.2	60-130	%	1.00	12/09/1999 01:32	

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8015m
Prep Method: 3510/8015M
3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	**SP-126-E**	Lab Sample ID:	**1999-12-0104-005**
Project:	6209-015-2 Main & Singleton	Received:	12/06/1999 16:10
		Extracted:	12/07/1999 08:00
Sampled:	12/06/1999 12:30	QC-Batch:	1999/12/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	62	1.0	mg/Kg	1.00	12/08/1999 22:29	ndp
Motor Oil	92	50	mg/Kg	1.00	12/08/1999 22:29	
Surrogate(s)						
o-Terphenyl	104.9	60-130	%	1.00	12/08/1999 22:29	

To: **ACC Environmental Consultants**

Attn.: Dave DeMent

Test Method: 8015m

Prep Method: 3510/8015M
3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	**MAINST-126-W**	Lab Sample ID:	**1999-12-0104-006**
Project:	6209-015-2 Main & Singleton	Received:	12/06/1999 16:10
		Extracted:	12/06/1999 08:00
Sampled:	12/06/1999 12:30	QC-Batch:	1999/12/06-04.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	29000	1000	ug/L	20.00	12/09/1999 03:58	ndp
Motor Oil	62000	10000	ug/L	20.00	12/09/1999 03:58	
Surrogate(s)						
o-Terphenyl	106.0	60-130	%	20.00	12/09/1999 03:58	

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8015m
Prep Method: 3510/8015M
3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank | **Water** | **QC Batch # 1999/12/06-04.10**

MB: 1999/12/06-04.10-001 | Date Extracted: 12/06/1999 08:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	12/07/1999 18:35	
Motor Oil	ND	500	ug/L	12/07/1999 18:35	
Surrogate(s)					
o-Terphenyl	99.5	60-130	%	12/07/1999 18:35	

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8015m
Prep Method: 3510/8015M
3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank | **Soil** | **QC Batch # 1999/12/07-01.10**

MB: 1999/12/07-01.10-001 | Date Extracted: 12/07/1999 08:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	12/08/1999 15:08	
Motor Oil	ND	50	mg/Kg	12/08/1999 15:08	
Surrogate(s)					
o-Terphenyl	93.5	60-130	%	12/08/1999 15:08	

To: **ACC Environmental Consultants**

Attn: Dave DeMent

Test Method: 8015m

Prep Method: 3510/8015M
3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 1999/12/06-04.10**

LCS: 1999/12/06-04.10-002 Extracted: 12/06/1999 08:00 Analyzed: 12/07/1999 18:36

LCSD: 1999/12/06-04.10-003 Extracted: 12/06/1999 08:00 Analyzed: 12/07/1999 19:20

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	1120	1110	1250	1250	89.6	88.8	0.9	60-130	25		
Surrogate(s)											
o-Terphenyl	22.5	23.8	20.0	20.0	112.5	119.0		60-130			

To: **ACC Environmental Consultants**

Attn: Dave DeMent

Test Method: 8015m

Prep Method: 3510/8015M
3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 1999/12/07-01.10**

LCS: 1999/12/07-01.10-002 Extracted: 12/07/1999 08:00 Analyzed: 12/08/1999 06:24

LCSD: 1999/12/07-01.10-003 Extracted: 12/07/1999 08:00 Analyzed: 12/08/1999 07:01

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	34.0	36.0	41.7	41.7	81.5	86.3	5.7	60-130	25		
Surrogate(s)											
o-Terphenyl	18.6	18.6	20.0	20.0	93.0	93.0		60-130			

To: ACC Environmental Consultants

Attn:Dave DeMent

Test Method: 8015m

Prep Method: 3510/8015M
3550/8015M

Legend & Notes

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

99-12-0109

CHROMALAB, INC.

1220 Quarry Lane • Pleasanton, California 94566-4756
510/484-1919 • Facsimile 510/484-1096

Environmental Services (SDB) (DOHS 1094)

RUSH Chain of Custody

DATE 12/6/99 PAGE 1 OF 1

PROJ MGR Dave DeMent
COMPANY ACC
ADDRESS 1977 Capwell
Oakland CA 94621

SAMPLERS (SIGNATURE) Neil Doran

(PHONE NO.) 510-638-8400
(FAX NO.) -8404

ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015) (EPA-DMO)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	MTBE	LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)	SVOCs (8270)	TDS		NUMBER OF CONTAINERS
SP-126-A	12/6/99	12:30	soil	cold		X	X									X									1
SP-126-B						X	X									X									1
SP-126-C						X	X									X									1
SP-126-D						X	X									X									1
SP-126-E						X	X									X									1
MAINST-126-W			H2O	HCl/cold		X	X		X							X	X						X	X	7
																		4.3							

PROJECT INFORMATION

PROJECT NAME Main & Singleton
PROJECT NUMBER 6209-015-2
PO #

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	
HEAD SPACE	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

TAT	STANDARD 5-DAY			24	48	72	OTHER

SPECIAL INSTRUCTIONS/COMMENTS
*Please filter H_2O & analyze for DISSOLVED LOFT Metals
*24-Hour RUSH to extent possible.. soils are priority

RELINQUISHED BY 1.	RELINQUISHED BY 2.	RELINQUISHED BY 3
Neil Doran 16:10 (SIGNATURE) (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
Neil Doran 12/6/99 (PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
ACC Environmental (COMPANY)	(COMPANY)	(COMPANY)
RECEIVED BY 1.	**RECEIVED BY 2.**	**RECEIVED BY (LABORATORY) 3**
(SIGNATURE) (TIME)	(SIGNATURE) (TIME)	Monarrez 16:10 (SIGNATURE) (TIME)
(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	MONARREZ 12/6/99 (PRINTED NAME) (DATE)
(COMPANY)	(COMPANY)	CL (LAB)