EXXON COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CALIFORNIA 94524-4032
MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

DARIN L. ROUSE
SENIOR ENGINEER

(925) 246-8768
(925) 246-8798 FAX

March 24, 2000

RE: EXXON RAS No. 7-3399/2991 Hopyard Road, Pleasanton, California

Dear Mr. Seery:

Attached for your review and comment is a document entitled ***Ground Water Monitoring Well Installation Report*** for the above referenced site. This document was prepared by Delta Environmental Consultants, Inc., of Rancho Cordova, California, and summarizes the most recent drilling activities and installation of wells at the subject site.

If you have any questions or comments, please contact me at (925) 246-8768.

Sincerely,

Darin L. Rouse
Senior Engineer

DLR/tjm

attachment: Delta's entitled, *Ground Water Monitoring Well Installation Report* dated March 21, 2000.

cc: w/attachment
Mr. Steve Asmann – Station Operator
Mr. Chuck Healdlee - California Regional Water Quality Control Board, San Francisco Bay Region
Mr. Steve Cusenza - City of Pleasanton Public Works Department
Mr. Matthew Katen - Alameda County Flood Control (Zone 7)
Ms. Christa Marting – ETIC

w/o attachment
Mr. James Brownell - Delta Environmental Consultants, Inc.

GROUND WATER
MONITORING WELL
INSTALLATION REPORT

EXXON SERVICE STATION No. 7-3399
2991 HOPYARD ROAD
PLEASANTON, CALIFORNIA
DELTA PROJECT NO. D094-836

March 21, 2000

Prepared By

DELTA ENVIRONMENTAL CONSULTANTS, INC.
3164 Gold Camp Drive, Suite 200
Rancho Cordova, California 95670
(916) 638-2085

Delta
Environmental
Consultants, Inc.

3164 Gold Camp Drive
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U.S.A.
916/638-2085
FAX: 916/638-8385

March 21, 2000

Mr. Darin L. Rouse
ExxonMobil Corporation
2300 Clayton Road, Suite 1250
Concord, California 94520

Subject: *Ground Water Monitoring Well Installation Report*
Exxon Service Station No. 7-3399
2991 Hopyard Road
Pleasanton, California
Delta Project No. D094-836

Dear Mr. Rouse:

Delta Environmental Consultants, Inc. (Delta) has been authorized by ExxonMobil Corporation (Exxon) to prepare a report summarizing additional hydrogeologic investigation activities at the subject site. The location of the site is presented in Figure 1 and a Site Map is included in Figure 2. This report describes the installation of 6 ground water monitoring wells which were proposed in the Delta *Soil Borings and Well Destruction Results Report* dated December 6, 1999. The wells were screened across a perched water table at the site, present approximately 10 feet beneath portions of the site. A copy of the permit issued by Alameda County Flood Control and Water Conservation District (Zone 7) for the installation of the wells is included as Enclosure A. Field methods and procedures used to complete the work are summarized in Enclosure B.

Work Performed

On December 16 and 17, 1999, Delta geologists were onsite to oversee Woodward Drilling Company of Rio Vista, California advance 6 soil borings (PMW-1 through PMW-6) onsite. Each boring was drilled to a total depth of 16 feet below surface grade (bsg). The locations of the soil borings are shown on Figure 3. Selected borings were sampled at five foot vertical intervals and logged using the Unified Soil Classification System (USCS) (visual and manual procedure ASTM D 2488-84) to the total depth of each boring. Soil samples collected were screened for the presence organic vapors using a flame-ionization detector (FID). Boring logs containing USCS descriptions of soil types encountered, FID readings, and other pertinent drilling information are included in Enclosure C.

Borings PMW-1, PMW-2, and PMW-5 were not sampled or logged due to the close proximity of previous borings. Samples were collected from borings PMW-3, PMW-4, and PMW-6 at 5, 10, and 15 feet bsg. These soil samples were submitted to Southern Petroleum Laboratories (SPL) of Houston, Texas for chemical analysis. Samples submitted were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) using EPA Method 8260B and total purgeable petroleum hydrocarbons (TPPH) as gasoline using EPA Method 8015 Modified.

Soil Sample Analytical Results

Laboratory analysis did not detect BTEX and TPPH as gasoline concentrations in any of the soil samples from PMW-3 and PMW-4. Concentrations of benzene and TPPH as gasoline were reported in a soil sample collected from boring PMW-6 at a depth of 15 feet bsg at 0.160 mg/kg and 55 mg/kg, respectively. Concentrations of MTBE were reported in a sample collected from boring PMW-3 at a depth of 10 feet bsg at 0.063 mg/kg. Soil sample analytical results for the recent drilling event are summarized in Table 1. A copy of the laboratory analytical report with chain of custody documentation is included in Enclosure D. Concentrations of benzene, TPPH as gasoline, and MTBE reported by laboratory analyses for the recent drilling event are illustrated on Figure 4.

Well Installation

Soil borings PMW-1 through PMW-6 were completed as ground water monitoring wells screened across a perched water table at approximately 40 feet beneath the surface. The wells were installed using a truck mounted drill rig using 10-inch diameter hollow stem augers. Each well was constructed using 4-inch diameter flush threaded schedule 40 PVC casing. The screened interval of each well begins at 6-feet bsg extending to 16-feet bsg, and consists of 0.010-slotted casing. The annular space was filled with Lonestar No. 2/12 sand extending 6-inches above the top of the screen interval and a 1-foot bentonite seal was emplaced above the filter pack. The remaining annulus was filled with cement grout containing 3 percent bentonite to within 6-inches of the surface. Each well was completed at the surface with a traffic rated well box set in concrete. Monitoring well construction details are illustrated in Enclosure C. A summary of monitoring well construction details for all site wells is included as Table 2.

Morrow Surveying of West Sacramento, California, a licensed land surveyor, was contracted to survey the newly installed well casings, surface elevations, and relevant site features.

Perched Ground Water

During the most recent quarterly monitoring event conducted at the site on December 22, 1999, depth to the water table beneath the site was measured in monitoring wells MW-1, MW-5S MW-7, and MW-9 through MW-11, and vapor recovery well VR-2. Monitoring wells PMW-1 and PMW-6 were dry. Also, depth to the ground water surface was measured in deeper monitoring wells MW-5D and MW-8. Finally, depth to the perched water table was measured in monitoring wells PMW-1 through PMW-6, tank backfill observation wells OW-1 and OW-2, and vapor recovery well VR-1. A perched ground water table elevation contour map was generated and is included as Figure 4.

Perched ground water samples were collected from VR-1, OW-1, OW-2, and PMW-5 on December 22, 1999. Wells PMW-1 and PMW-6 were dry and PMW-2 through PMW-4 had insufficient water to sample. The samples were submitted to SPL in Houston, Texas for analysis of BTEX by EPA Method 8021B, TPPH as gasoline by EPA Method 8015 Modified, MTBE by EPA Method 8260B, and ethylene glycol by EPA Method 8015 Modified. The perched ground water sample collected from PMW-5 was additionally analyzed for volatile organic compounds (VOC's) by EPA Method 8260B, and dissolved CAM-17 metals by various methods. The perched ground water sample collected from VR-1 was additionally analyzed for semi-VOC's by EPA Method 8270, and fuel finger print by EPA Method 8015 Modified

Concentrations of benzene were detected by laboratory analysis for samples collected from OW-1 and PMW-5 at 12 micrograms per liter (µg/L) and 1.0 µg/L, respectively. Laboratory analysis detected concentrations of TPPH as gasoline in samples collected from OW-1 and OW-2 at 360 µg/L and 410 µg/L, respectively. Concentrations of MTBE by EPA Method 8260B were detected in samples collected from VR-1, VR-2, OW-1, OW-2, and PMW-5. MTBE concentrations ranged from 10 µg/L in VR-1 to 85,000 µg/L in OW-2. A map illustrating benzene, TPPH as gasoline, and MTBE concentrations for perched water samples is included as Figure 5. Laboratory analyses did not detect concentration of ethylene glycol at or above the reporting limit of 10µg/L. The ground water sample collected from vapor recovery well VR-1 did not contain concentrations of semi-VOC's at or above the laboratory reporting limits. The ground water sample collected from perched monitoring well PMW-5 contain concentrations of 1,2,3-trichloropropane (39µg/L), 2-butanone (20µg/L), and acetone (160µg/L). Concentrations of selenium, barium, chromium, copper, molybdenum, nickel, vanadium, and zinc were detected in the ground water sample from PMW-5. Analytical results for the perched ground water samples are summarized in Table 3. Analytical results for metals are summarized in Table 4. Copies of the laboratory analytical reports with chain of custody documentation are included in Enclosure E.

Soil Stockpile

Soil generated from drilling activities was stockpiled on-site. Soil samples were collected from stockpiled soil and submitted for chemical analysis to assess disposal options. Following receipt of soil analytical results and acceptance by the designated disposal facility, a licensed waste transporter was contracted to remove the soil. Approximately 3.53 tons of soil were removed from the site on January 7, 2000. The soil was transported under waste manifest by Dillard Trucking Service of Byron, to the BFI Vasco Road Sanitary Landfill located in Livermore, California. A copy of the soil removal completion letter is included in Enclosure F.

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 hydrogeological and engineering practices at this time and location. Other than this, no warranty is implied or intended.

Delta recommends that a copy of this document be forwarded to:

Mr. Scott Seery
Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, CA 94502-5577

Mr. Chuck Headlee
California Regional Water Quality Control Board,
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland CA 94612

Mr. Matthew Katen
Alameda County Flood Control and
Water Conversation District (Zone 7)
5997 Parkside Drive
Pleasanton, CA 94566

Mr. Stephen Cusenza
City of Pleasanton Public Works Department
Post Office box 520
Pleasanton, CA 94566

Mr. Steve Asmann
Steve's Exxon
2991 Hopyard Road
Pleasanton, CA 94588

Ms. Christa Marting
ETIC
144 Mayhew Way
Walnut Creek, CA 94596

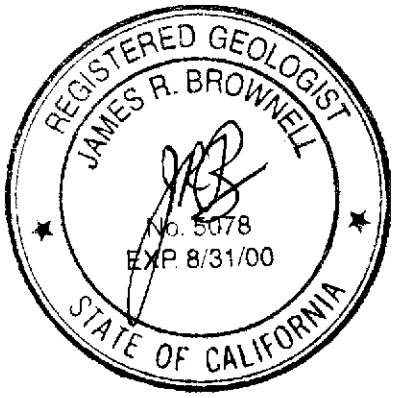
If you have any questions regarding this project, please contact Jim Brownell at (916) 638-2765.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

J. William Speth
Project Geologist

James R. Brownell, R.G.
Project Manager
California Registered Geologist No. 5078



JWS (Lrp030.836)
Enclosures

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Exxon Service Station No. 7-3399
2991 Hopyard Road
Pleasanton, California

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	TPPH as gasoline (mg/kg)	MTBE (mg/kg)
PMW-3	12/16/99	5	<0.005	<0.005	<0.005	<0.005	<1.0	<0.010
	12/16/99	10	<0.005	<0.005	<0.005	<0.005	<1.0	0.0063
	12/16/99	15	<0.005	<0.005	<0.005	<0.005	<1.0	<0.010
PMW-4	12/16/99	5	<0.005	<0.005	<0.005	<0.005	<1.0	<0.010
	12/16/99	10	<0.005	<0.005	<0.005	<0.005	<1.0	<0.010
	12/16/99	15	<0.005	<0.005	<0.005	<0.005	<1.0	<0.010
PMW-6	12/16/99	5	<0.005	<0.005	<0.005	<0.005	<1.0	<0.010
	12/16/99	10	<0.005	<0.005	<0.005	<0.005	<1.0	<0.010
	12/16/99	15	0.160	<0.005	9.0	0.035	55	<0.010

mg/kg = Milligrams per kilogram
TPPH = Total purgeable Petroleum Hydrocarbons
MTBE = Methyl Tertiary butyl ether

TABLE 2

SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS

Exxon Service Station No. 7-3399
2991 Hopyard Road
Pleasanton, California

Well ID	Date Installed	Diameter (inches)	Total Depth (ft)	Slotted Interval (feet)	Slot Size (inches)	Sand Interval (feet)	Bentonite Interval (feet	Grout Interval (feet)	Status
MW-1	04/01/88	4	57	57-32	0.020	57-30	30-28	28-0.5	Active
MW-2[a]	04/02/88	4	57	57-37	0.020	57-34	34-32	32-0.5	Destroyed
MW-3[b]	04/04/88	4	60	56-36	0.020	60-35	35-34	34-0.5	Destroyed
MW-4	04/06/88	4	60	57-37	0.020	60-36	36-35	35-0.5	Active
MW-5D	05/10/88	4	77.5	77.5-67.5	0.020	77.5-64	64-61	61-0.5	Active
MW-5S	05/11/88	4	58	55-40	0.020	58-37.5	37.5-34	34-0.5	Active
MW-6[c]	05/11/88	4	59	55-40	0.020	59-36	36-35	35-0.5	Destroyed
MW-7	07/12/88	5	56.5	53-28	0.020	56.5-25	25-24	24-0.5	Active
MW-8	09/30/89	4	133	133-118	0.020	133-114	114-111.5	111.5-0.5	Active
MW-9	10/04/89	4	54.5	54.5-34.5	0.020	54.5-34	34-33	33-0.5	Active
MW-10	10/06/89	4	60	60-40	0.020	60-38	38-37	37-0.5	Active
MW-11	11/02/89	4	55	55-35	0.020	55-33	33-31	31-0.5	Active
VR-1	10/24/88	4	30	30-10	0.020	30-10	10-9	9-0.5	Not in use
VR-2	11/20/89	2	45.5	45-35	0.020	45.5-33	33-32	32-0.5	Not in use
VR-3[d]	11/20/89	2	35.5	35-5	0.020	35.5-4	4-3	3-0.5	Destroyed
VR-4[d]	11/24/89	2	35.5	32.5-12.5	0.020	35.5-4	4-3.5	3.5-0.5	Destroyed

TABLE 2

SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS

Exxon Service Station No. 7-3399
2991 Hopyard Road
Pleasanton, California

Well ID	Date Installed	Diameter (inches)	Total Depth (ft)	Slotted Interval (feet)	Slot Size (inches)	Sand Interval (feet)	Bentonite Interval (feet	Grout Interval (feet)	Status
PMW-1	12/16/99	4	16	6-16	0.010	5.5-16	4.5-5.5	0.5-4.5	Active
PMW-2	12/16/99	4	16	6-16	0.010	5.5-16	4.5-5.5	0.5-4.5	Active
PMW-3	12/16/99	4	16	6-16	0.010	5.5-16	4.5-5.5	0.5-4.5	Active
PMW-4	12/16/99	4	16	6-16	0.010	5.5-16	4.5-5.5	0.5-4.5	Active
PMW-5	12/16/99	4	16	6-16	0.010	5.5-16	4.5-5.5	---	Active
PMW-6	12/17/99	4	16	6-16	0.010	5.5-16	4.5-5.5	0.5-4.5	Active

a = Destroyed July 12, 1988.
b = Destroyed August 29, 1988.
c = Destroyed October 24 1988.
d = Destroyed November 5, 1999.

TABLE 3

PERCHED GROUND WATER MONITORING DATA

Exxon Service Station No. 7-3399
2991 Hopyard road
Pleasanton, California

Monitoring Well	Date	Reference Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Fuel Finger Print (µg/L)	MTBE (µg/L)	VOC's (µg/L)	SVO (µg/L)	Ethylene Glycol (µg/L)
VR-1	03/24/92		NM	NC	1.7	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	NA
	06/30/99		19.52	NC	<0.5	<0.5	<0.5	<0.5	<50	NA	6.83/7.31[a,c]	NA	NA	NA
	08/03/99		19.53	NC	<0.5	<0.5	<0.5	<0.5	<50	NA	2.49[a]	NA	NA	NA
	09/24/99	321.00	19.73	310.07	<0.5	<0.5	<0.5	<0.5	<50	136[g]	5.94[a]	NA	NA	<20
	12/22/99		21.35	299.65	<1.0	<1.0	<1.0	<1.0	<50	0.45[h]/0.33[i]	10[a]	NA	ND	<10
VR-2	06/30/99		33.63	NC	<0.5	<0.5	<0.5	<0.5	<50	NA	1,080/1,160[a,c]	NA	NA	NA
	08/03/99		37.19	NC	<0.5	<0.5	<0.5	<0.5	<50	NA	3,390[a]	NA	NA	NA
	09/24/99	320.18	41.54	278.64	2650	<50	<50	309	5,170	1,630[g]	1,030[a]	NA	NA	<20
	12/22/99		40.63	279.55	<1.0	<1.0	<1.0	<1.0	<50	NA	34[a]	NA		<10
VR-3	06/30/99		9.15	NC	<0.5	<0.5	<0.5	<0.5	<50	NA	1,220/1,380[a,c]	NA	NA	NA
	08/03/99		8.19	NC	<0.5	<0.5	<0.5	<0.5	<50	NA	16,100[a]	NA	NA	NA
	09/24/99	318.73	8.97	309.76	7.20	1.14	<1.0	1.94	122	100[g]	10,900[a]	ND	ND	<20
	Well Destroyed 11/05/99													
VR-4	06/30/99		8.50	NC	<0.5	<0.5	<0.5	<0.5	<50	NA	146	NA	NA	NA
	08/03/99		8.69	NC	<0.5	<0.5	<0.5	<0.5	71.7[b]	NA	3.96[a]	NA	NA	NA
	09/24/99	321.19	9.10	312.09	0.890	2.22	0.800	3.15	79.6	363	90.6[a]	NA	NA	<20
	Well Destroyed 11/05/99													
OW-1	09/24/99	322.45	12.01	310.44	2.10	1.41	<0.5	7.22	119	331[g]	7,810[a]	NA	NA	<20
	12/22/99		10.93	311.52	12	<5.0	<5.0	5.2	360	NA	44,000[a]	NA	NA	<10
OW-2	09/24/99	321.55	12.70	308.85	31.1	<0.5	<0.5	20.6	275[b]	255[g]	177,000[a]	NA	NA	<20
	12/22/99		10.13	311.42	<5.0	<5.0	<5.0	5.2	410	NA	85,000[a]	NA	NA	<10

TABLE 3

PERCHED GROUND WATER MONITORING DATA

Exxon Service Station No. 7-3399
2991 Hopyard road
Pleasanton, California

Monitoring Well	Date	Reference Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPPH as gasoline (µg/L)	Fuel Finger Print (µg/L)	[redacted] (µg/L)	VOC's (µg/L)	SVO (µg/L)	Ethylene Glycol (µg/L)
PMW-1	12/22/99	322.75	NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PMW-2	12/22/99	322.37	12.85	309.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PMW-3	12/22/99	321.27	12.61	308.66	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PMW-4	12/22/99	321.37	15.32	603.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PMW-5	12/22/99	320.04	13.19	306.85	1.0	<1.0	<1.0	<1.0	<50	NA	810[a]	39[d]/20[e]/160[f]	NA	<10
PMW-6	12/22/99	321.38	NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

a = Methyl tertiary butyl ether by EPA Method 8260.
b = Unidentified Hydrocarbon C6-C12.
c = Analysis performed outside of EPA recommended hold time.
d = 1,2,3-Trichloropropane.
e = 2-Butanone.
f = Acetone.
g = Unidentified hydrocarbons C9-C40.
h = Results reported in carbon range C10-C11 as milligrams per liter.
i = Results reported in carbon range C12-C13 as milligrams per liter.
Reference elevation = Elevation relative to mean sea level.
Depth to ground water = Measured from notch/mark on north edge of well casing.
TPPH = Total purgeable petroleum hydrocarbons.
MTBE = Methyl tertiary butyl ether by EPA Method 8020.
VOC = Volatile organic compounds by EPA Method 8260B.
SVO = Semi-volatile organic compounds by EPA Method 8270B.

µg/L = Micrograms per liter.
NA = Not analyzed.
NM = Not measured.
NC = Not calculated.
NS = Not Sampled

TABLE 4

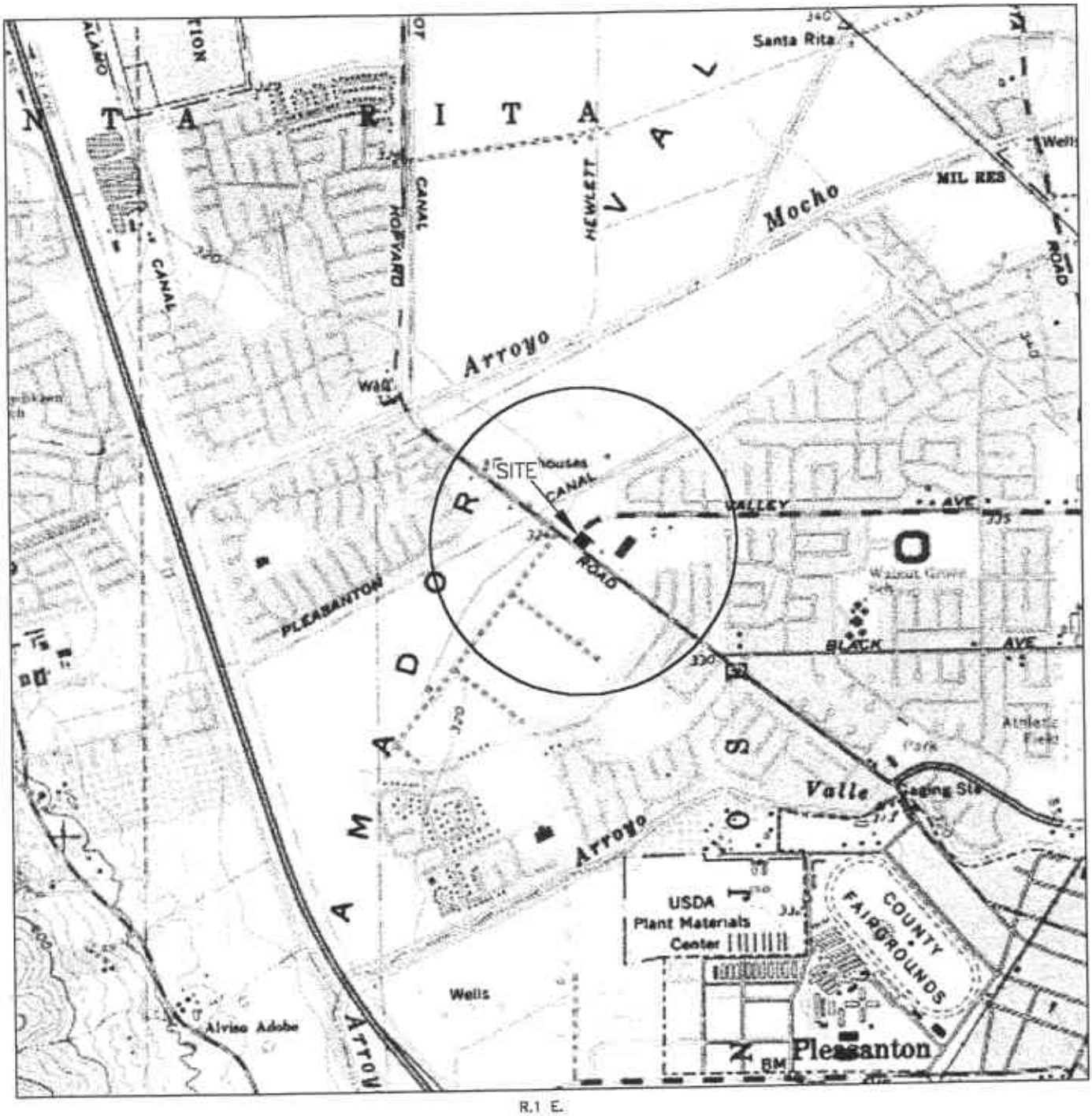
GROUND WATER ANALYTICAL RESULTS FOR DISSOLVED METALS

Exxon Service Station No. 7-3399
2991 Hopyard Road
Pleasanton, California

Sample ID	Date	Antimony (mg/L)	Arsenic (mg/L)	Lead (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Silver (mg/L)	Vanadium (mg/L)	Zinc (mg/L)
MW-9	9/24/99	<0.005	<0.005	<0.005	<0.005	<0.005	0.320	<0.003	<0.005	<0.01	<0.001	<0.001	<0.02	<0.02	<0.01	<0.005	0.096
	12/22/99	0.0538	0.314	<0.005	0.0118	<0.005	1.1	<0.003	<0.005	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.005	0.286
PMW-5	12/22/99	<0.005	<0.005	<0.005	0.011	<0.005	0.668	<0.003	<0.005	0.0563	<0.01	0.0598	0.113	0.0514	<0.01	0.0207	0.177
VR-3	9/24/99	<0.005	<0.005	<0.005	<0.005	<0.005	0.630	<0.003	<0.005	<0.01	<0.001	<0.001	<0.02	<0.02	<0.01	<0.005	0.10

mg/L = Milligrams per liter.

Note: Metal anlyzed by EPA Method 6010B.



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

North

QUADRANGLE LOCATION

0 2000 FT

SCALE 1:24,000

FIGURE 1

SITE LOCATION MAP

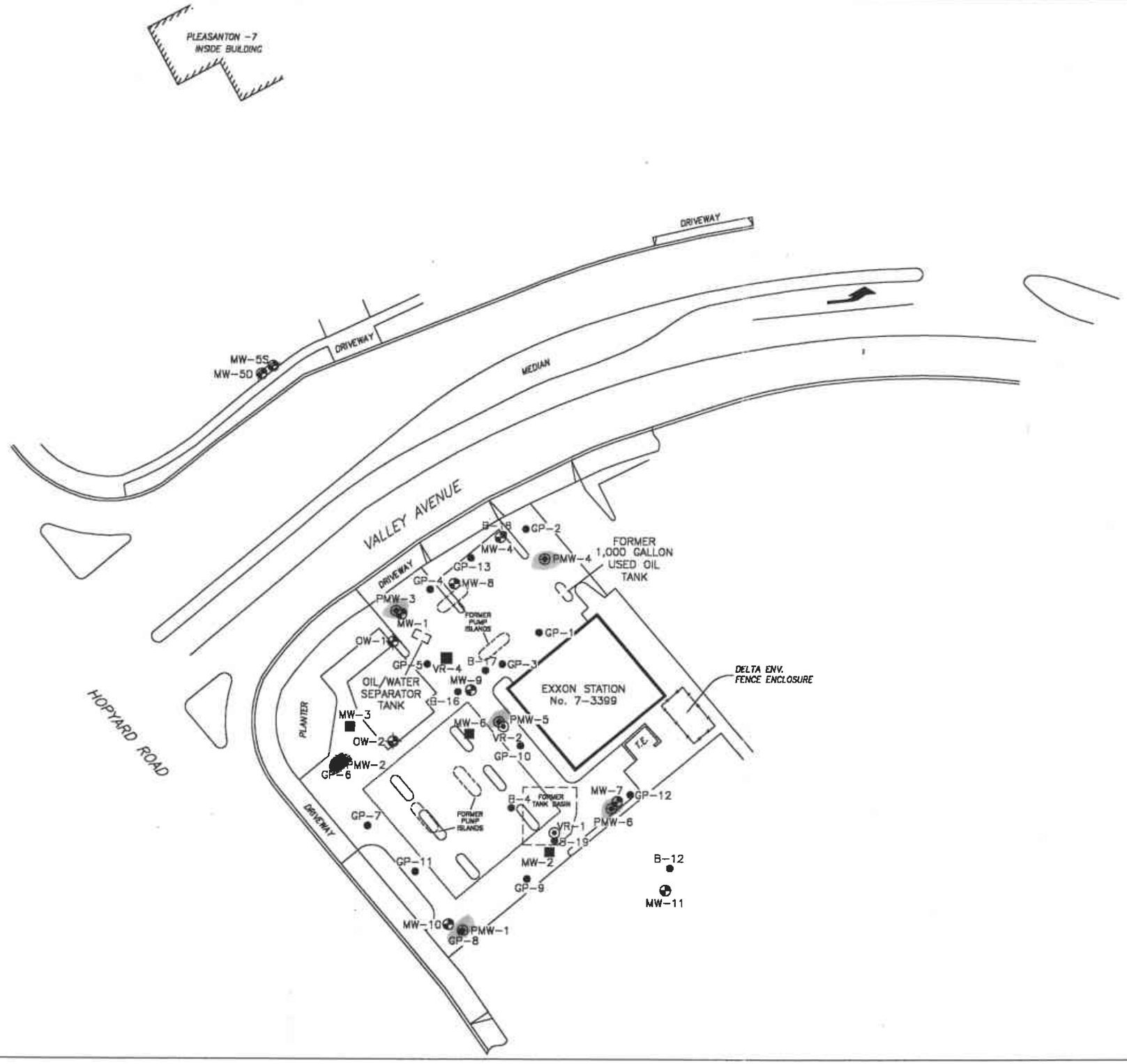
EXXON STATION NO. 7-3399

2991 HOPYARD ROAD

PLEASANTON, CA.

PROJECT NO. 0094-836	DRAWN BY M.L. 12/6/99
FILE NO. 94-836-10	PREPARED BY JWS
REVISION NO. 1	REVIEWED BY 3/2/00

Delta Environmental Consultants, Inc.



North

LEGEND:

OW-1	OBSERVATION WELL LOCATION
MW-1	MONITORING WELL LOCATION
VR-1	VAPOR EXTRACTION WELL LOCATION
MW-2	DESTROYED MONITORING WELL
B-12	SOIL BORING LOCATION
GP-1	GEOPROBE SOIL BORING LOCATION
PMW-1	PERCHED MONITORING WELL LOCATION

NOTE:
VAPOR RECOVERY WELLS VR-3 & VR-4 WERE DESTROYED ON 11/5/99. PERCHED GROUND WATER MONITORING WELL PMW-5 WAS INSTALLED IN DESTROYED VAPOR WELL VR-3 BORING ON 12/16/99.

0 50 FT
SCALE

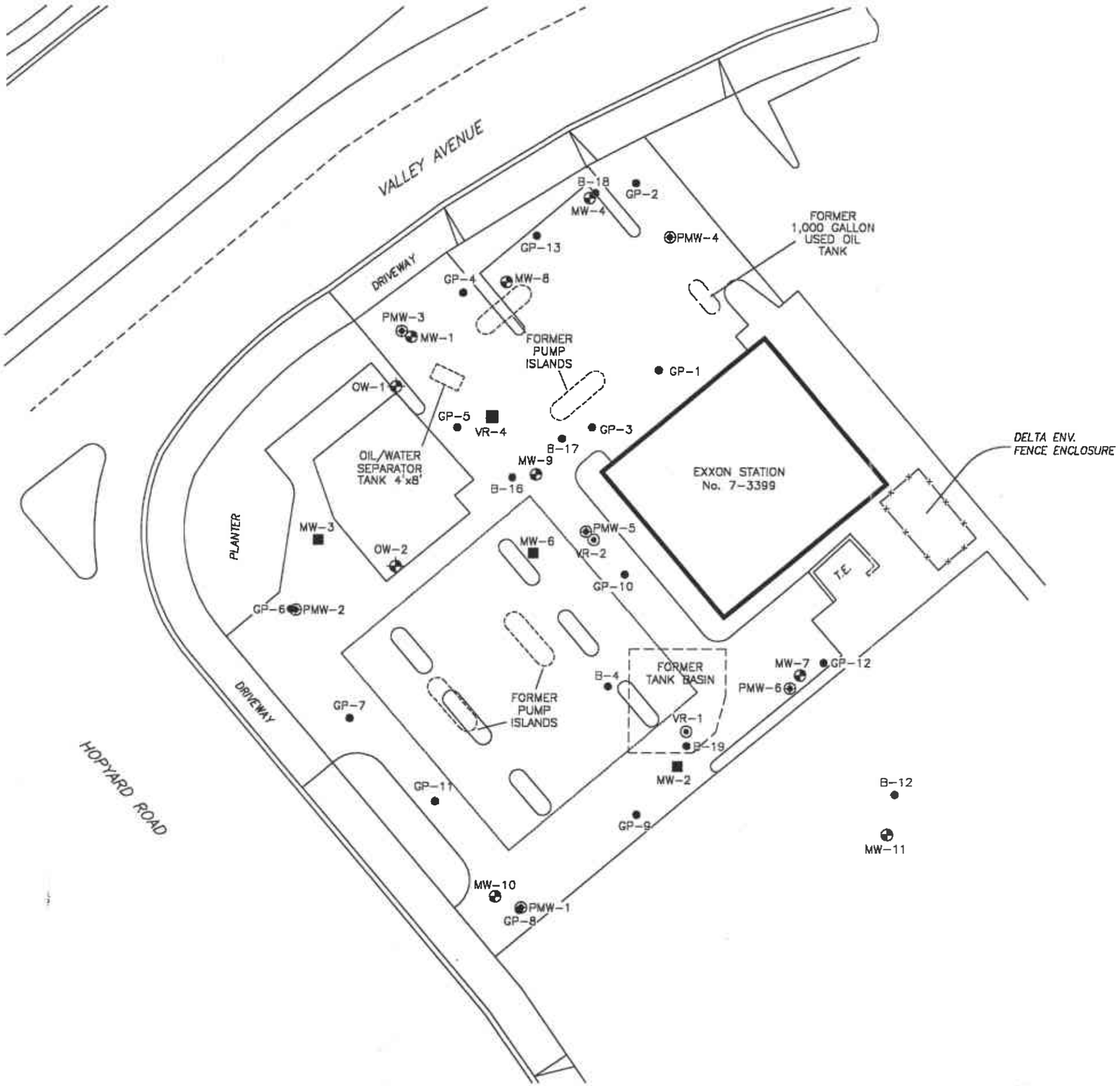
GENERAL NOTE:
BASE MAP ADAPTED FROM RESNA FIGURE.SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

FIGURE 2
SITE VICINITY MAP

EXXON STATION NO 7-3399
2991 HOPYARD ROAD
PLEASANTON, CA.

PROJECT NO. 0094-836	DRAWN BY M.L. 1/18/00
FILE NO. 94-836-1A	PREPARED BY JWS
REVISION NO. 4	REVIEWED BY JWS 3/21/00

Delta Environmental Consultants, Inc.



North

LEGEND:

OW-1	OBSERVATION WELL LOCATION
MW-1	MONITORING WELL LOCATION
VR-1	VAPOR EXTRACTION WELL LOCATION
MW-2	DESTROYED MONITORING WELL
B-12	SOIL BORING LOCATION
GP-1	GEOPROBE SOIL BORING LOCATION
PMW-1	PERCHED MONITORING WELL LOCATION

NOTE:
VAPOR RECOVERY WELLS VR-3 & VR-4 WERE DESTROYED ON 11/5/99. PERCHED GROUND WATER MONITORING WELL PMW-5 WAS INSTALLED IN DESTROYED VAPOR WELL VR-3 BORING ON 12/16/99.

0 30 FT
SCALE

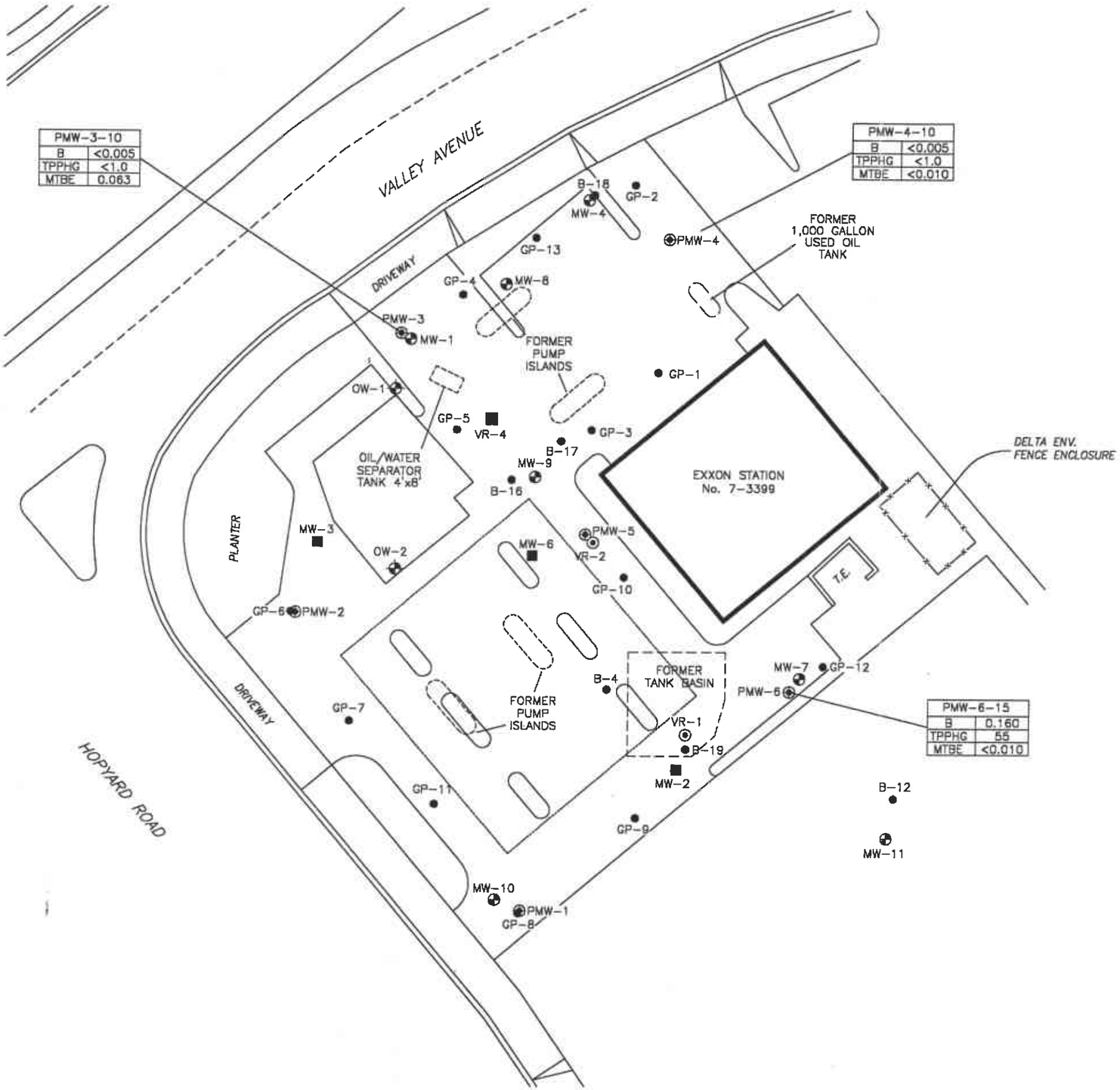
GENERAL NOTE:
BASE MAP ADAPTED FROM RESNA FIGURE.SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

FIGURE 3
SITE MAP

EXXON STATION NO 7-3399
2991 HOPYARD ROAD
PLEASANTON, CA.

PROJECT NO. 0094-836	DRAWN BY M.L. 1/13/00
FILE NO. 94-836-1C	PREPARED BY JWS
REVISION NO. 4	REVIEWED BY 3/2/00

Delta Environmental Consultants, Inc.



LEGEND:

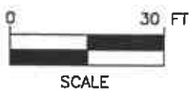
OW-1	OBSERVATION WELL LOCATION
MW-1	MONITORING WELL LOCATION
VR-1	VAPOR EXTRACTION WELL LOCATION
MW-2	DESTROYED MONITORING WELL
B-12	SOIL BORING LOCATION
GP-1	GEOPROBE SOIL BORING LOCATION
PMW-1	PERCHED MONITORING WELL LOCATION

PMW-3-10	SAMPLE ID & DEPTH IN FEET
B <0.005	BENZENE
TPPHG <1.0	TOTAL PURGABLE PETROLEUM HYDROCARBONS AS GASOLINE
MTBE <0.010	METHYL TERTIARY BUTYL ETHER

CONCENTRATIONS MEASURED IN MILLIGRAMS PER KILOGRAM (mg/Kg)

MTBE ANALYZED USING EPA METHOD 8260B

NOTE:
VAPOR RECOVERY WELLS VR-3 & VR-4 WERE DESTROYED ON 11/5/99. PERCHED GROUND WATER MONITORING WELL PMW-5 WAS INSTALLED IN DESTROYED VAPOR WELL VR-3 BORING ON 12/16/99.



SCALE

GENERAL NOTE:

BASE MAP ADAPTED FROM RESNA FIGURE.SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

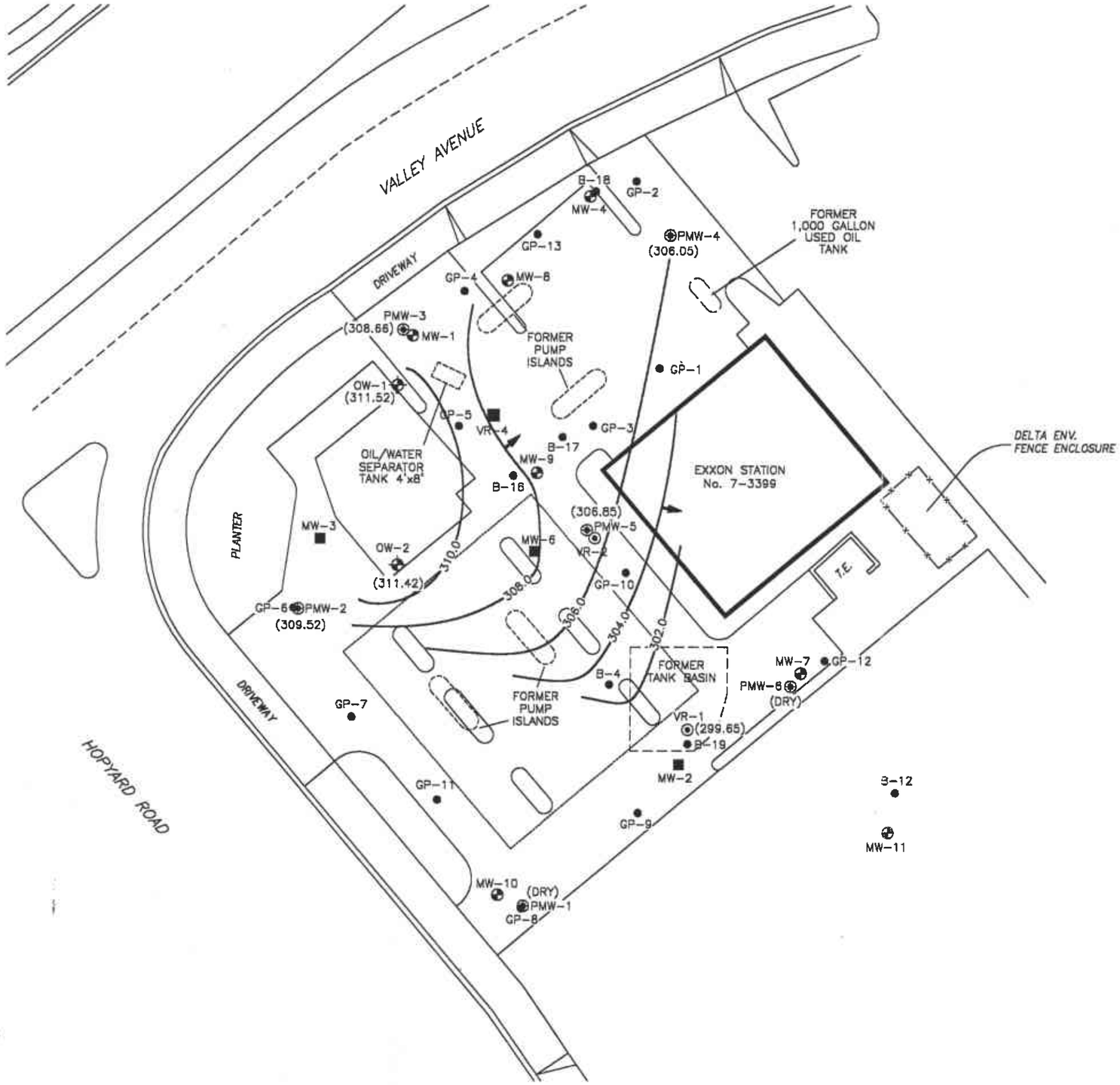
FIGURE 4

PETROLEUM HYDROCARBON CONSTITUENTS IN SOIL

EXXON STATION NO 7-3399
2991 HOPYARD ROAD
PLEASANTON, CA.

PROJECT NO. D094-836	DRAWN BY M.L. 1/18/00
FILE NO. 94-836-1C	PREPARED BY JWS
REVISION NO. 1	REVIEWED BY RKB 3/21/00

Delta Environmental Consultants, Inc.



North

LEGEND:

OW-1	OBSERVATION WELL LOCATION
MW-1	MONITORING WELL LOCATION
VR-1	VAPOR EXTRACTION WELL LOCATION
MW-2	DESTROYED MONITORING WELL
B-12	SOIL BORING LOCATION
GP-1	GEOPROBE SOIL BORING LOCATION
PMW-1	PERCHED MONITORING WELL LOCATION
(306.85)	GROUND WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
310.0	WATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL
	GROUND WATER FLOW DIRECTION

ELEVATIONS BASED ON CITY OF PLEASANTON BENCH MARK C-972. ELEVATION = 330.545 FEET ABOVE MEAN SEA LEVEL.

NOTE:
VAPOR RECOVERY WELLS VR-3 & VR-4 WERE DESTROYED ON 11/5/99. PERCHED GROUND WATER MONITORING WELL PMW-5 WAS INSTALLED IN DESTROYED VAPOR WELL VR-3 BORING ON 12/16/99.

0 30 FT
SCALE

GENERAL NOTE:

BASE MAP ADAPTED FROM RESNA FIGURE.SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

FIGURE 5
PERCHED GROUND WATER ELEVATION CONTOUR MAP
12/22/99
EXXON STATION NO 7-3399
2991 HOPYARD ROAD
PLEASANTON, CA.

PROJECT NO. D094-836	DRAWN BY M.L. 3/21/00
FILE NO. 94-836-1C	PREPARED BY JWS
REVISION NO. 2	REVIEWED BY

Delta Environmental Consultants, Inc.

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
5997 PARKSIDE DRIVE • PLEASANTON, CALIFORNIA 94588-5127 • PHONE (925) 484-2600 FAX (925) 462-3914

December 8, 1999

Mr. J. William Speth
Delta Environmental Consultants, Inc.
3164 Gold Camp Drive, Suite 200
Rancho Cordova, CA 95670

Dear Mr. Speth:

Enclosed is drilling permit 99209 for a monitoring well construction project at 2991 Hopyard Road in Pleasanton for Exxon Company.

Please note that permit condition A-2 requires that a well construction report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, and permit number. Please submit the original of your completion report. We will forward your submittal to the California Department of Water Resources.

If you have any questions, please contact me at extension 235 or Matt Katen at extension 234.

Sincerely,

Wyman Hong

Wyman Hong
Water Resources Technician II

Enc.

P:\WRE\GPOs\GPO1\GPO1.MONITORING.wpd

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2600 X235
FAX (925) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO

LOCATION OF PROJECT 2991 Hopyard Road
Pleasanton, Ca.

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CN _____ ft. CCE _____ ft.
APN _____

CLIENT
Name Exxon Company U.S.A. (925) 246-8768
Address P.O. Box 4032 Phone
City Concord, Ca. Zip 94524-4032

APPLICANT
Name Delta Enviornmental Consultants, Inc. (916) 638-8385
Address 3164 Gold Camp Dr. No. 200 Phone (916) 638-2765
City Rancho Cordova, Ca. Zip 95670

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☐
Monitoring	XX	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other _____	☐

DRILLING METHOD:
Mud Rotary ☐ Air Rotary ☐ Auger XX
Cable ☐ Other ☐

DRILLER'S LICENSE NO. ~~705927~~ 710079 C-57

WELL PROJECTS
Drill Hole Diameter 10.25 in. Maximum
Casing Diameter 4 in. Depth 16 ft.
Surface Seal Depth 4 ft. Number 6

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 12-16-99
ESTIMATED COMPLETION DATE 12-16-99

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE _____ Date 12-7-99

FOR OFFICE USE

PERMIT NUMBER 99209
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
4. A sample port is required on the discharge pipe near the wellhead.

(C.) GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION. See attached.

G. SPECIAL CONDITIONS

Approved Wyman Hong Date 12/8/99
Wyman Hong

8/6/99

FIELD METHODS AND PROCEDURES

PRE-FIELD WORK ACTIVITIES

Health and Safety Plan

Field work performed by Delta and Delta's subcontractors at the site is conducted according to guidelines established in a Site Health and Safety Plan (SHSP). The SHSP is a document, which describes the hazards that may be encountered in the field and specifies protective equipment, work procedures, and emergency information. A copy of the SHSP is at the site and available for reference by appropriate parties during work at the site.

Locating Underground Utilities

Prior to commencement of any work that is to be below surface grade, the location of the excavation, boring, etc., is marked with white paint as required by law. An underground locating service such as Underground Service Alert (USA) is contacted. The locating company contacts the owners of the various utilities in the vicinity of the site to mark the locations of their underground utilities. Any invasive work is preceded clearing the area by gently probing, hand auguring, and/or post-hole digging to a minimum depth of five feet below surface grade, and two inches larger than the maximum diameter of downhole equipment to avoid contact with underground utilities.

FIELD METHODS AND PROCEDURES

Soil Borings

A geologist from Delta Environmental Consultants, Inc. continuously logs (if required) each borehole according to the Soil Classification method section during drilling and checks drill cuttings for indications of first recognizable occurrence of ground water and volatile hydrocarbons, using either a portable photoionization detector or flame ionization detector.

The ground water monitoring well will be drilled with a truck-mounted, hollow-stem auger rig. Soil samples are typically collected in cleaned brass or stainless steel tubes of varying diameters and lengths (typically two by six inches). The tubes are set, typically, in an 18-inch-long split-barrel sampler. For continuous sampling, a two or five foot long core barrel may be utilized. The sampler is conveyed to bottom of the borehole attached either to the end of drill rods or on a wire-line hammer device. When possible, the sampling device is driven its entire length, either hydraulically or by repeated pounding a 140-pound hammer using a 30-inch drop. The number of drops (blows) used to drive the sampler is recorded on the boring log. The sampler is extracted form the borehole and the tubes containing the soil

samples are removed. Upon removal from the sampler, the ends of the lowermost tube are typically sealed with Teflon® sheeting and plastic caps. The sample may be extruded from the tube and sealed within another appropriate cleaned sample container (e.g., glass jar). The sealed sample is labeled and handled according to the Quality Assurance Plan.

Material from one of the other tubes is screened in the field, when required, according to the Soil Sample Screening method section. The data is recorded on the boring logs at the depth corresponding to the sampling point.

All drilling and sampling equipment are either steam-cleaned or washed prior to use at each site and between bore holes to minimize the potential for cross-contamination. Sampling equipment is also cleaned between samples.

Soil Classification

As the samples are obtained in the field, they are classified by the field geologist in accordance with the Unified Soil Classification System. Representative portions of the samples are then retained for further examination and for verification of the field classification. Logs of the borings indicating the depth and identification of the various strata, the N value, and pertinent information regarding the method of maintaining and advancing the borehole are prepared.

Soil Sample Screening

After the soil samples in Ziploc® type bags have been brought to ambient temperature, the headspace vapors in the bag are screened with a PID equipped with a 10.2 eV lamp, or FID. The corner of the bag is opened and the detector probe immediately placed within the head space. The highest observed reading is recorded.

Monitoring Well Completion

The bore hole diameter for a monitoring well will be a minimum of four inches larger than the outside diameter of the casing.

A monitoring well is typically cased with threaded, factory-perforated and blank Schedule 40 PVC. The perforated interval consists of slotted casing, generally with 0.01 or 0.02 inch-wide by 1.5-inch-long slots, with 42 slots per foot. A threaded or slip PVC cap is secured to the bottom of the casing. The slip cap can be secured with stainless steel screws or friction; no solvents or cements are used. Centering devices may be fastened to the casing to ensure even distribution of filter material and grout within the borehole annulus.

The well casing is thoroughly washed and/or steam cleaned, or may be purchased as pre-cleaned, prior to completion.

Setting the casing inside the hollow-stem auger, sand or gravel filter pack material is poured into the annular space to fill from boring bottom to generally one foot above the perforated interval. Before placement of the bentonite plug, the well is surged to set the filter pack. (if water is present). After surging, the top of the filter pack is measured and as necessary, additional filter pack material is added and the well is surged again. This procedure is repeated until the filter pack will not settle further. After setting the filter pack, a one to two foot thick bentonite plug is set above the filter pack to prevent grout from infiltrating into the filter pack. A regulatory approved annular filling material such as neat cement, cement with five percent (by volume) bentonite or sand-cement grout will be used to fill the annulus from the bentonite plug to within one foot of the ground surface. The annular filling material is placed by a method approved by the regulatory agency overseeing the site. The remaining foot of the well will be completed using a traffic-rated vault is installed around each wellhead for wells located in parking lots or driveways, while steel (or other material) "stovepipes" are usually set over wellheads in landscaped areas.

A traffic-rated vault it is typically set 1/2-inch above grade to minimize surface water from entering the vault. In areas that may be plowed for snow removal the vault is set flush with the surface to prevent damage to the vault by a snow plow.

After completion, the well is thoroughly developed to remove residual drilling materials from the wellbore, and to improve well performance by removing fine material from the filter pack that may pass into the well. Well development techniques used may include pumping, surging, bailing, swabbing, jetting, flushing, and air-lifting. All development water is collected either in drums or tanks for temporary storage, and properly disposed of depending on laboratory analytical results. To minimize the potential for cross-contamination between wells, all development equipment is either steam cleaned or properly washed prior to use. At the request of the client and approval of the regulatory agency, the well may be developed before placement of the bentonite plug and annular seal.

Soil Cuttings From Drilling Operations

Soil generated during drilling operations will be stockpiled on-site. The stockpile is typically set on asphalt and covered by plastic sheeting in a manner to prevent rain water from coming in contact with the soil. If no asphalt is available the soil is placed on plastic sheeting and covered in the above method. The soil will remain on-site until the proper method for disposal is assessed.

Stockpile Soil Sampling

Stockpile soil sampling is performed under the direction of a registered geologist or civil engineer. Prior to collecting soil samples Delta personnel will measure and calculate the volume of soil in the stockpile(s). The stockpile(s) is then divided into sections containing the predetermined volume sampling interval (50, 100, 200, 500 yd^3, etc.). Soil samples are typically collected from 0.5 to two feet below the surface of the stockpile. In some instances two to four soil samples may be collected from each sampling interval and composited into one prior to laboratory analysis. The soil samples are collected in cleaned, brass or stainless tubes of varying diameter and lengths (typically two x six inches) or other appropriately cleaned sample containers. A hand-driven sampler holding the sample container may be used. To reduce the potential for cross-contamination between samples, the sampler is cleaned between each sampling event. Upon recovery, the sample container is sealed to minimize the potential of volatilization and cross-contamination prior to chemical analysis. Soil sampling tubes are typically closed at each end with Teflon® sheeting and plastic caps. The soil sample is collected, labeled, and handled according to the Quality Assurance Plan.

Ground Water and Liquid-Phase Petroleum Hydrocarbon Depth Assessment

A water/hydrocarbon interface probe is used to assess the liquid-phase petroleum hydrocarbon (LPH) thickness, if present, and a water level indicator is used to measure the ground water depth in monitoring wells that do not contain LPH. Depth to ground water or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typical a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for hydrocarbon sheen.

Subjective Analysis of Ground Water

Prior to purging, a water sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

Monitoring Well Purging and Sampling

Monitoring wells are purged using a pump or bailer until pH, temperature, and conductivity of the purge water has stabilized and a minimum of three well volumes of water have been removed. If three well volumes can not be removed in one half an hours time the well is allowed to recharge to 80 percent of original level. After recharging, a ground water sample is then removed from the well using a disposable bailer. The water sample is collected, labeled, and handled according to the Quality Assurance Plan. Water

generated during the monitoring event is disposed of accruing to regulatory accepted method pertaining to the site.

QUALITY ASSURANCE PLAN

General Sample Collection and Handling Procedures

Proper collection and handling are essential to ensure the quality of a sample. Each sample is collected in a suitable container, preserved correctly for the intended analysis, and stored prior to analysis for no longer than the maximum allowable holding time. Details on the procedures for collection and handling of samples used on this project can be found in this section.

Water Sample Collection for Volatile Organic Analyses

For volatile organic analyses (VOA), the water sample is decanted into each VOA vial in such a manner that there is no meniscus at the top of the vial. A cap is quickly secured to the top of the vial. The vial is inverted and gently tapped to see if air bubbles are present. If none are present, the vial is labeled and refrigerated according to Soil and Water Sample Labeling and Preservation.

Soil and Water Sample Labeling and Preservation

Label information includes a unique sample identification number, job identification number, date, and time. After labeling all soil and water samples are placed in a Ziploc® type bag and placed in an ice chest cooled to approximately 4° Celsius. Upon arriving at Delta's office the samples are transferred to a locked refrigerator cooled to approximately 4° Celsius. Chemical preservation is controlled by the required analysis and is noted on the chain-of-custody form.

Upon recovery, the sample container is sealed to minimize the potential of volatilization and cross-contamination prior to chemical analysis. Soil sampling tubes are typically closed at each end with Teflon® sheeting and plastic caps. The sample is then placed in a Ziploc® type bag and sealed. The sample is labeled and refrigerated at approximately 4° Celsius for delivery, under strict chain-of-custody, to the analytical laboratory.

Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis has a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling

methodology, names of on-site personnel, and any other pertinent field observations, is recorded on the borehole log or in the field records. The samples are analyzed by a California-certified laboratory.

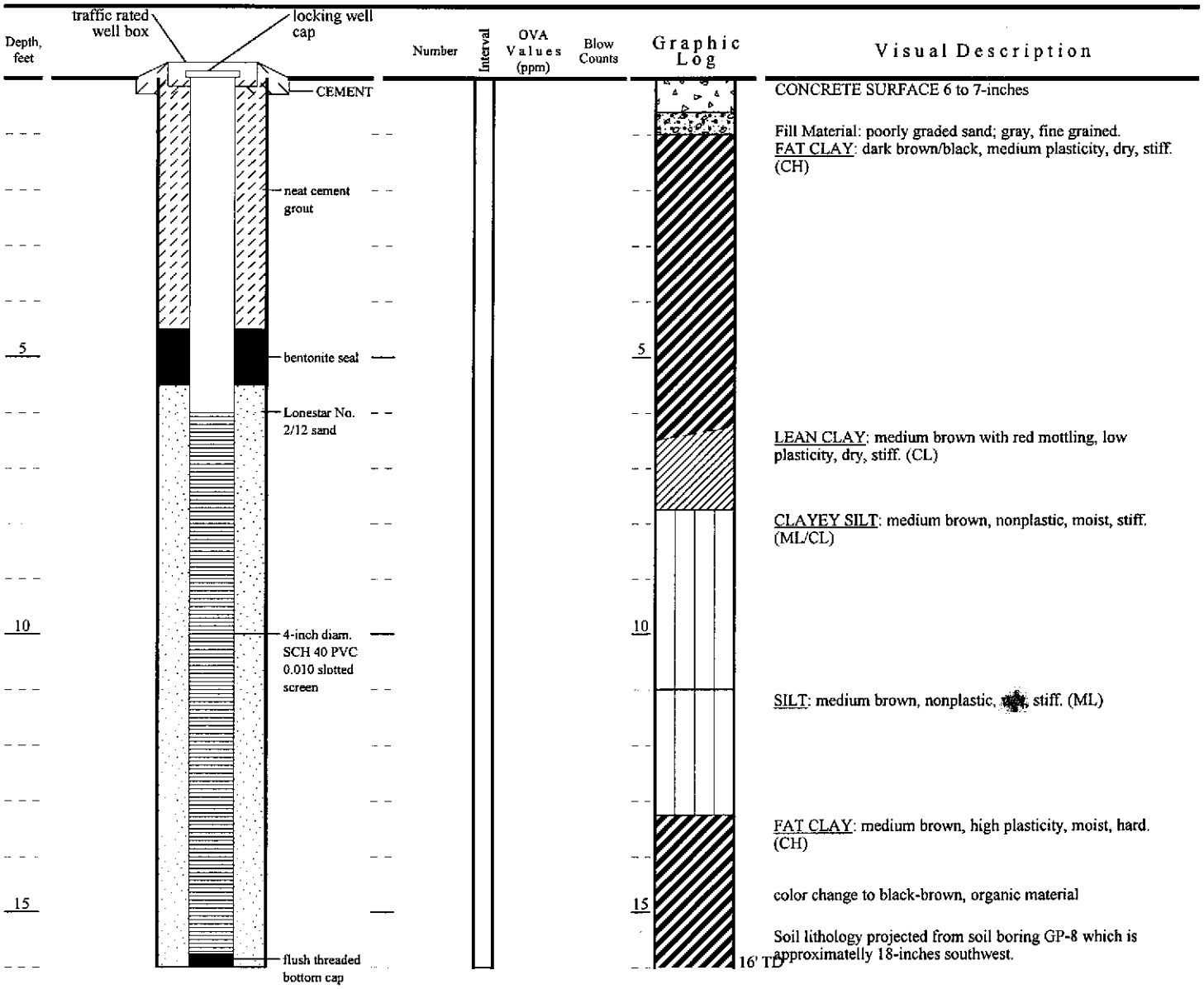
A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquishes the samples by signing the chain-of-custody form and noting the time. The sample-control officer at the laboratory verifies sample integrity and confirms that the samples are collected in the proper containers, preserved correctly, and contain adequate volumes for analysis.

If these conditions are met, each sample is assigned a unique log number for identification throughout analysis and reporting. The log number is recorded on the chain-of-custody form and in the legally-required log book maintained by the laboratory in the laboratory. The sample description, date received, client's name, and other relevant information is also recorded.

ENCLOSURE C

Soil Boring Logs and Well Construction Diagrams

Delta Environmental Consultants, Inc.	Street Address: **2991 Hopyard Road**	Project ID: **Exxon Station No. 7-3399**	
	City & State: **Pleasanton, California**	Surface Elev.: **323.20'**	Well / Boring ID: **PMW-1**
	Delta Project #: **D094-836**	Casing Elev.: **322.75'**	Total Depth: **16'**

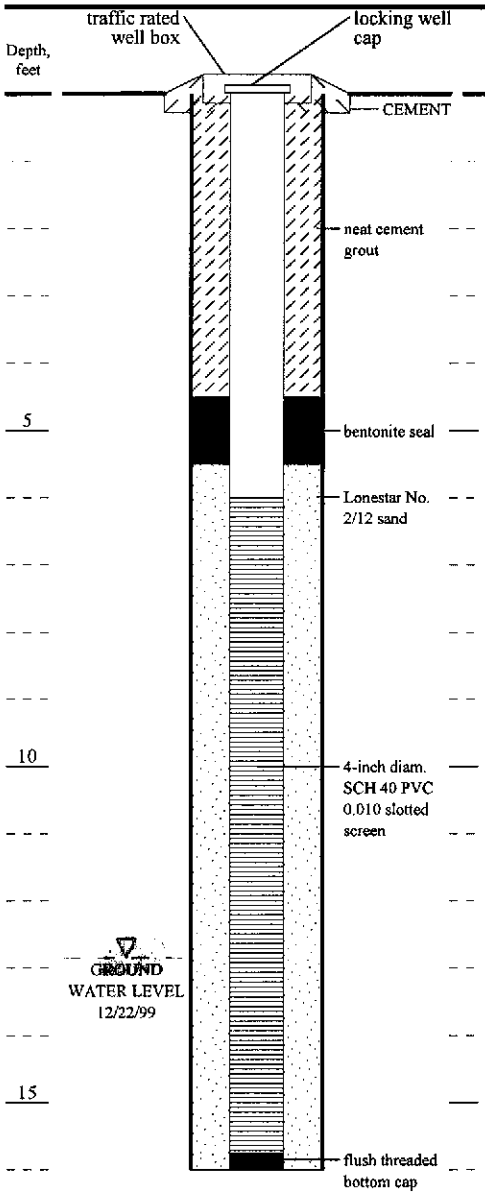


Dates and Times	Logger: **J. William Speth**	Sampling Method & Diameter: **none**	Permitting Agency: **Alameda County Zone 7 Water Agency**
Start: **12/16/99 10:42 AM**	Drilling Company & Driller: **Woodward Drilling, Inc., Van Leonard**	Bore Hole Diameter: **10.25-inches**	Permit #: **99209**
Total Depth: **12/16/99 10:48 AM**	Drillers C-57#: **710079**	Diameter, Type & Slot Size of Casing: **4-inch, SCH 40 PVC 0.010**	
Completion or backfill: **12/16/99 11:55 AM**	Drilling Equipment and method: **Mobile B-81, hollow stem augers**		**Page 1 of 1**

WELL 94-836A.GPJ 3/21/00

Delta Environmental Consultants, Inc.	Street Address: **2991 Hopyard Road**	Project ID: **Exxon Station No. 7-3399**	
	City & State: **Pleasanton, California**	Surface Elev.: **322.87'**	Well / Boring ID: **PMW-2**
	Delta Project #: **D094-836**	Casing Elev.: **322.37'**	Total Depth: **16'**

WELL CONSTRUCTION — SAMPLING DATA — SOIL PROFILE/LITHOLOGY



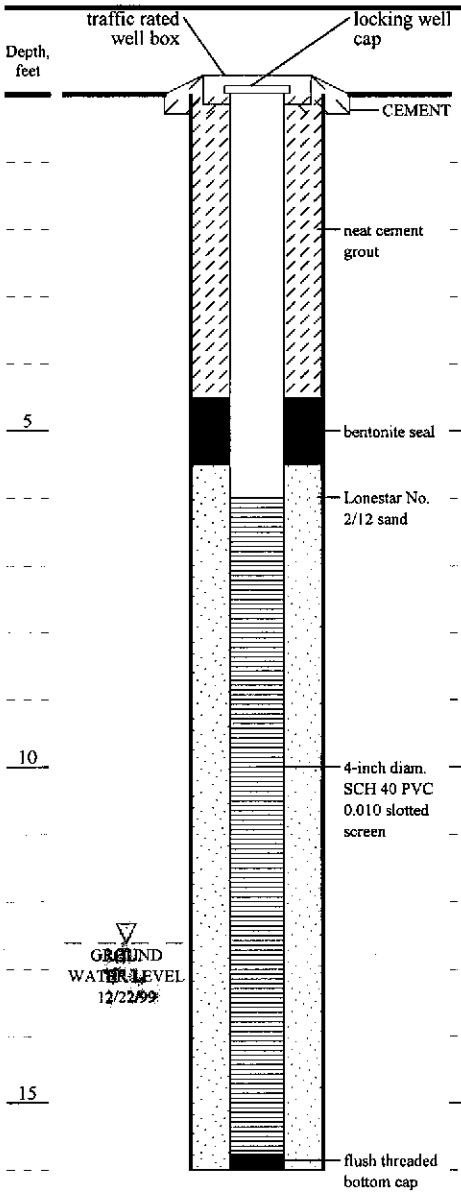
Number	Interval	OVA Values (ppm)	Blow Counts	Graphic Log	Visual Description
					CONCRETE SURFACE 6 to 7-inches
					Fill Material: poorly graded sand; gray, fine grained. FAT CLAY: dark brown/black, medium plasticity, dry, stiff. (CH)
					SILT: medium brown with red mottling, wet, stiff. (ML)
					SILTY CLAY/CLAYEY SILT: medium brown, low plasticity, dry, stiff. (ML/CL- CL/ML)
					SILT: reddish-brown, nonplastic, moist, stiff. (ML)
					POORLY GRADED SAND: reddish-brown to greenish gray, fine to medium grained, nonplastic, wet, medium dense. (SP)
					FAT CLAY: dark brown/black, high plasticity, organic materials, moist, very stiff. (CH)
					Soil lithology projected from soil boring GP-6 which is approximatelly 18-inches west.
					16' TD

Dates and Times	Logger: **J. William Speth**	Sampling Method & Diameter: **none**	Permitting Agency: **Alameda County Zone 7 Water Agency**
Start: **12/16/99 12:05 PM**	Drilling Company & Driller: **Woodward Drilling, Inc., Van Leonard**	Bore Hole Diameter: **10.25-inches**	Permit #: **99209**
Total Depth: **12/16/99 12:10 PM**	Drillers C-57#: **710079**	Diameter, Type & Slot Size of Casing: **4-inch, SCH 40 PVC 0.010**	
Completion or backfill: **12/16/99 1:28 PM**	Drilling Equipment and method: **Mobile B-81, hollow stem augers**		**Page 1 of 1**

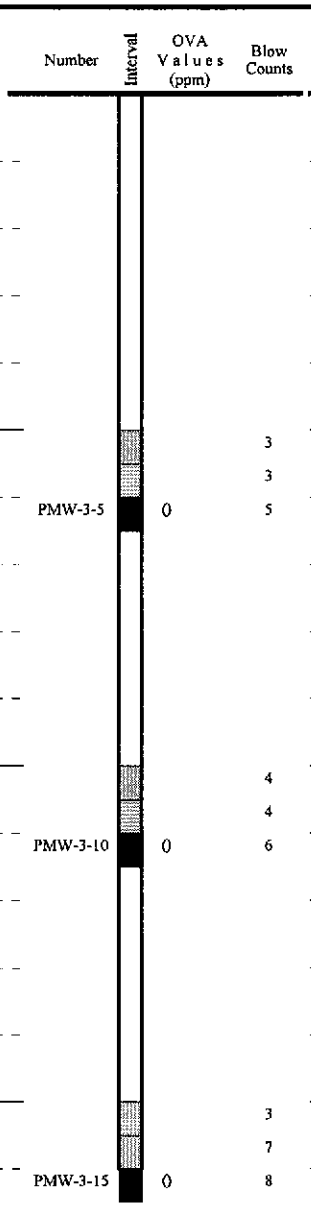
WELL 94-836A.GPJ 3/21/00

Delta Environmental Consultants, Inc.	Street Address: **2991 Hopyard Road**	Project ID: **Exxon Station No. 7-3399**	
	City & State: **Pleasanton, California**	Surface Elev.: **321.91'**	Well / Boring ID: **PMW-3**
	Delta Project #: **D094-836**	Casing Elev.: **321.27'**	Total Depth: **16'**

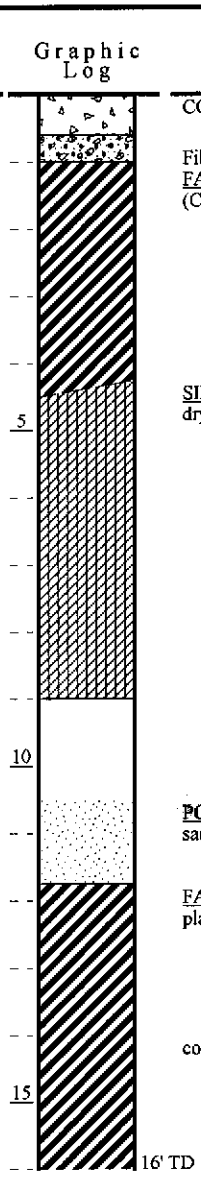
WELL CONSTRUCTION



SAMPLING DATA



SOIL PROFILE/LITHOLOGY



Visual Description

CONCRETE SURFACE 6 to 7-inches

Fill Material: poorly graded sand; gray, fine grained.
FAT CLAY: dark brown/black, medium plasticity, dry, stiff. (CH)

SILTY CLAY: medium brown to greenish-gray, low plasticity, dry, stiff. (CL/ML)

POORLY GRADED SAND: reddish-brown, fine grained sand, dry, medium dense. (SP)

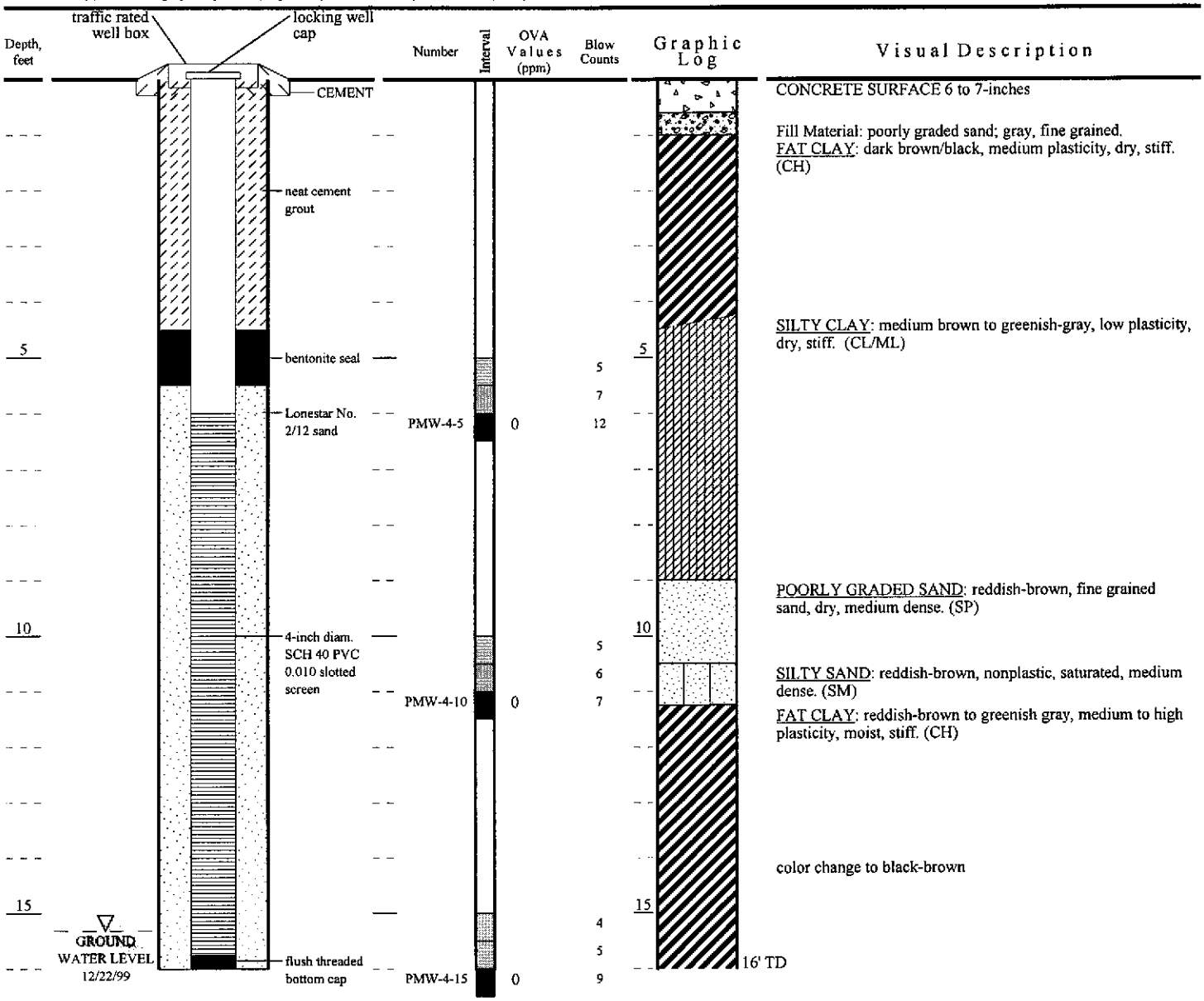
FAT CLAY: reddish-brown to greenish gray, medium to high plasticity, moist, stiff. (CH)

color change to black-brown

Dates and Times	Logger	Sampling Method & Diameter	Permitting Agency
	J. William Speth	**2-inch ID split-spoon**	**Alameda County Zone 7 Water Agency**
Start: **12/16/99 1:50 PM**	Drilling Company & Driller: **Woodward Drilling, Inc., Van Leonard**	Bore Hole Diameter: **10.25-inches**	Permit #: **99209**
Total Depth: **12/16/99 2:10 PM**	Drillers C-57#: **710079**	Diameter, Type & Slot Size of Casing: **4-inch, SCH 40 PVC 0.010**	
Completion or backfill: **12/16/99 3:20 PM**	Drilling Equipment and method: **Mobile B-81, hollow stem augers**		**Page 1 of 1**

WELL 94-836A.GPJ 3/21/00

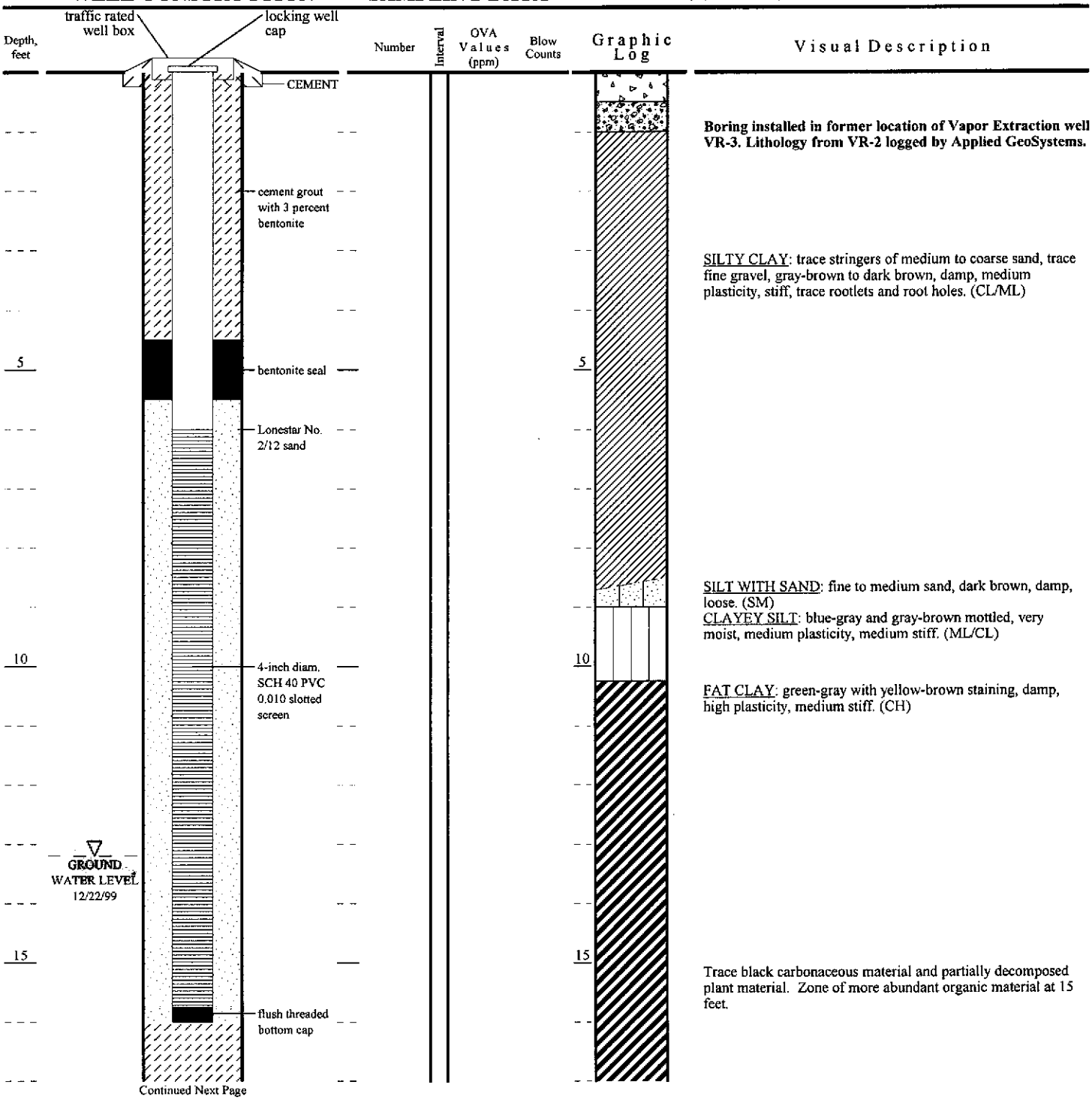
Delta Environmental Consultants, Inc.	Street Address **2991 Hopyard Road**	Project ID **Exxon Station No. 7-3399**	
	City & State **Pleasanton, California**	Surface Elev. **321.78'**	Well / Boring ID **PMW-4**
	Delta Project # **D094-836**	Casing Elev. **321.37'**	Total Depth **16'**



Dates and Times	Logger **J. William Speth**	Sampling Method & Diameter **2-inch ID split-spoon**	Permitting Agency **Alameda County Zone 7 Water Agency**
Start **12/16/99 3:35**	Drilling Company & Driller **Woodward Drilling, Inc., Van Leonard**	Bore Hole Diameter **10.25-inches**	Permit # **99209**
Total Depth **12/16/99 3:51 PM**	Drillers C-57# **710079**	Diameter, Type & Slot Size of Casing **4-inch, SCH 40 PVC 0.010**	
Completion or backfill **12/16/99 5:00 PM**	Drilling Equipment and method **Mobile B-81, hollow stem augers**		**Page 1 of 1**

WELL 94-836A.GPJ 3/21/00

Delta Environmental Consultants, Inc.	Street Address: **2991 Hopyard Road**	Project ID: **Exxon Station No. 7-3399**	
	City & State: **Pleasanton, California**	Surface Elev.: **321.98'**	Well / Boring ID: **PMW-5**
	Delta Project #: **D094-836**	Casing Elev.: **320.04'**	Total Depth: **35.5'**



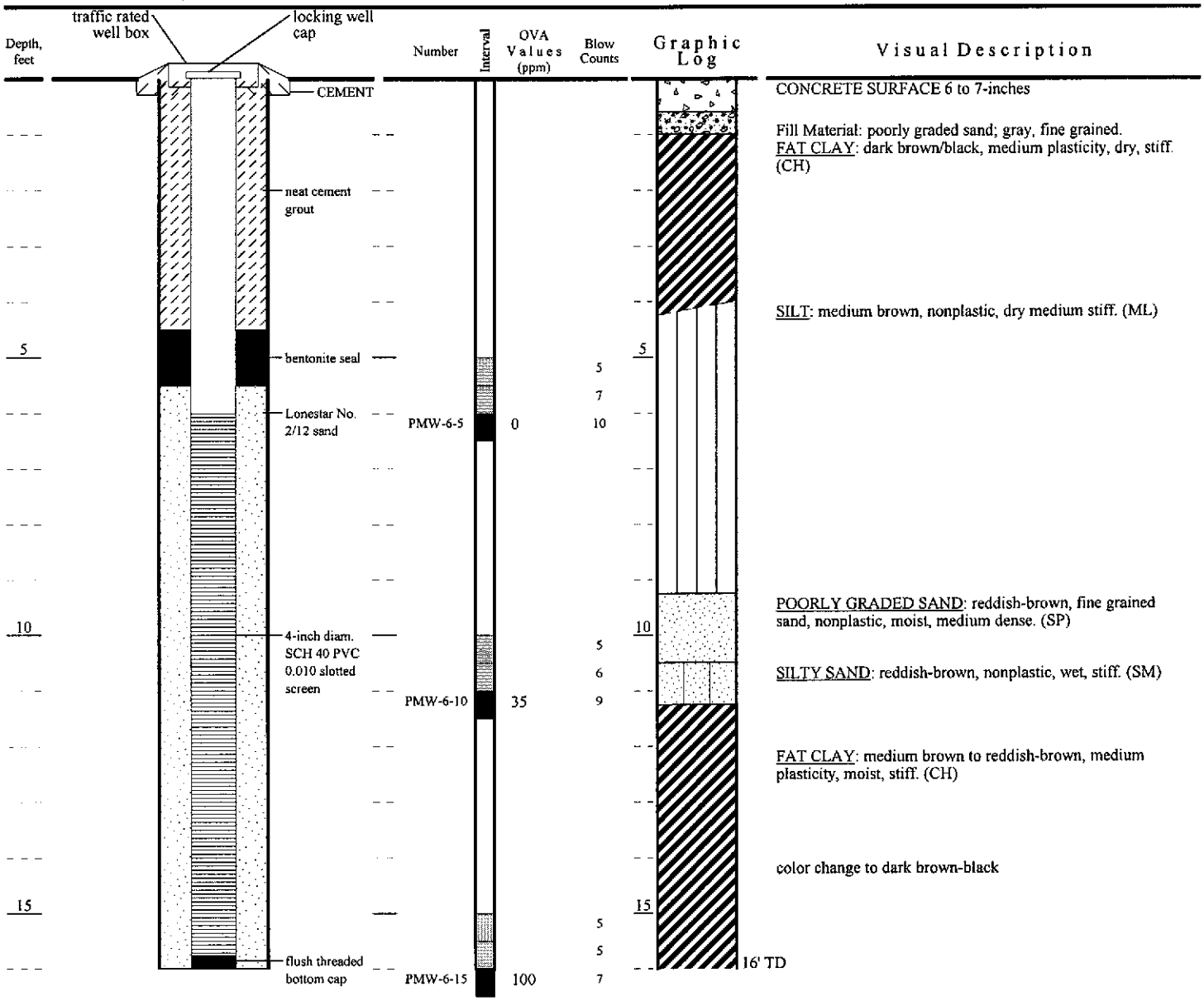
Dates and Times	Logger: **J. William Speth**	Sampling Method & Diameter: **none**	Permitting Agency: **Alameda County Zone 7 Water Agency**
Start: **12/16/99 5:07 PM**	Drilling Company & Driller: **Woodward Drilling, Inc., Van Leonard**	Bore Hole Diameter: **10.25-inches**	Permit #: **99209**
Total Depth: **12/16/99 5:20 PM**	Drillers C-57#: **710079**	Diameter, Type & Slot Size of Casing: **4-inch, SCH 40 PVC 0.010**	
Completion or backfill: **12/16/99 5:55 PM**	Drilling Equipment and method: **Mobile B-81, hollow stem augers**		**Page 1 of 2**

Delta Environmental Consultants, Inc.	Street Address: 2991 Hopyard Road	Project ID: Exxon Station No. 7-3399	
	City & State: Pleasanton, California	Surface Elev.: 321.98'	Well / Boring ID: PMW-5
	Delta Project #: D094-836	Casing Elev.: 320.04'	Total Depth: 35.5'

WELL CONSTRUCTION		SAMPLING DATA				SOIL PROFILE/LITHOLOGY	
Depth, feet	Continued	Number	Interval	OVA Values (ppm)	Blow Counts	Graphic Log	Visual Description
20	cement grout with 3 percent bentonite						trace stringers of medium sand, dark black to gray-black, some partially decomposed plant material.
							FAT CLAY: trace stringers of medium sand, dark gray to gray-black, damp, high plasticity, medium stiff, some partially decomposed plant material. (CH)
							CLAYEY SILT: gray with yellow-brown mottling, very moist, medium plasticity, medium stiff, trace rootlets, partially decomposed. (ML)
25							SILTY CLAY: gray with red-brown staining, moist, medium plasticity, medium stiff. (ML/CL)
							CLAY: gray with red-brown mottling and trace specks and thin streaks of black carbonaceous material, damp, high plasticity, stiff. (CH)
30							
35							Gray-brown with red-brown mottling, trace specks and small patches of black carbonaceous material, including decomposed seeds, medium plasticity, very stiff.
							35.5' TD

Delta Environmental Consultants, Inc.	Street Address: **2991 Hopyard Road**	Project ID: **Exxon Station No. 7-3399**	
	City & State: **Pleasanton, California**	Surface Elev.: **321.84'**	Well / Boring ID: **PMW-6**
	Delta Project #: **D094-836**	Casing Elev.: **321.38'**	Total Depth: **16'**

WELL CONSTRUCTION / SAMPLING DATA / SOIL PROFILE/LITHOLOGY



Visual Description

CONCRETE SURFACE 6 to 7-inches

Fill Material: poorly graded sand; gray, fine grained.
FAT CLAY: dark brown/black, medium plasticity, dry, stiff. (CH)

SILT: medium brown, nonplastic, dry medium stiff. (ML)

POORLY GRADED SAND: reddish-brown, fine grained sand, nonplastic, moist, medium dense. (SP)

SILTY SAND: reddish-brown, nonplastic, wet, stiff. (SM)

FAT CLAY: medium brown to reddish-brown, medium plasticity, moist, stiff. (CH)

color change to dark brown-black

Dates and Times	Logger: **J. William Speth**	Sampling Method & Diameter: **2-inch ID split-spoon**	Permitting Agency: **Alameda County Zone 7 Water Agency**
Start: **12/17/99 8:00 AM**	Drilling Company & Driller: **Woodward Drilling, Inc., Van Leonard**	Bore Hole Diameter: **10.25-inches**	Permit #: **99209**
Total Depth: **12/17/99 8:20 AM**	Drillers C-57#: **710079**	Diameter, Type & Slot Size of Casing: **4-inch, SCH 40 PVC 0.010**	
Completion or backfill: **12/17/99 9:30 AM**	Drilling Equipment and method: **Mobile B-81, hollow stem augers**		**Page 1 of 1**

WELL 94-836A.GPJ 3/21/00

ENCLOSURE D

Laboratory Analytical Report for Soil Samples

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Case Narrative for:

EXXON Company U.S.A.

Certificate of Analysis Number:

99120502

Report To:		Project Name:	D094-836	
Delta Environmental Consultants, Inc.		Site:	7-3399,19432526	
Jim R. Brownell, R.G.		Site Address:	2991 Hopyard Road	
3164 Gold Camp Drive, Suite 200			Pleasanton	CA
Rancho Cordova		PO Number:		
California		State:	California	
95670-		State Cert. No.:	1903	
ph: (916) 638-2765	fax: (916) 638-8385	Date Reported:		

Any data flags or quality control exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

SPL, Inc. Is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

RECEIVED
JAN 12 2000
By

Sonia West for Wyatt, Neaundra
Project Manager

1/5/00
Date

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

EXXON Company U.S.A.

Certificate of Analysis Number:

99120502

Report To:	Delta Environmental Consultants, Inc. Jim R. Brownell, R.G. 3164 Gold Camp Drive, Suite 200 Rancho Cordova California 95670- ph: (916) 638-2765 fax: (916) 638-8385	**Project Name:**	D094-836
		Site:	7-3399,19432526
		Site Address:	2991 Hopyard Road Pleasanton CA
		PO Number:	
		State:	California
Fax To:	*Delta Environmental Consultants, Inc.* *Jim R. Brownell, R.G. fax: (916) 638-8385*	**State Cert. No.:**	1903
		Date Reported:	

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
PMW-3-5	99120502-01	Soil	12/16/99 2:02:00 PM	12/20/99 3:00:00 PM		☐
MW-3-10	99120502-02	Soil	12/16/99 2:07:00 PM	12/20/99 3:00:00 PM		☐
MW-3-15	99120502-03	Soil	12/16/99 2:10:00 PM	12/20/99 3:00:00 PM		☐
PMW-4-5	99120502-04	Soil	12/16/99 3:45:00 PM	12/20/99 3:00:00 PM		☐
MW-4-10	99120502-05	Soil	12/16/99 3:48:00 PM	12/20/99 3:00:00 PM		☐
MW-4-15	99120502-06	Soil	12/16/99 3:51:00 PM	12/20/99 3:00:00 PM		☐
PMW-6-5	99120502-07	Soil	12/17/99 8:05:00 AM	12/20/99 3:00:00 PM		☐
PMW-6-10	99120502-08	Soil	12/17/99 8:15:00 AM	12/20/99 3:00:00 PM		☐
MW-6-15	99120502-09	Soil	12/17/99 8:20:00 AM	12/20/99 3:00:00 PM		☐

Wyatt, Neaundra
oject Manager

1/5/00
Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: PMW-3-5 **Collected:** 12/16/99 2:02:00 **SPL Sample ID:** 99120502-01

Site: 7-3399,19432526

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			**MCL**	**CA_GRO**		**Units: mg/Kg**		
Gasoline Range Organics	ND		1	1		12/21/99 17:41	CJ	139526
Surr: 1,4-Difluorobenzene	97	%	72-153	1		12/21/99 17:41	CJ	139526
Surr: 4-Bromofluorobenzene	88	%	51-149	1		12/21/99 17:41	CJ	139526
VOLATILE ORGANICS METHOD 8260B			**MCL**	**SW8260B**		**Units: ug/Kg**		
Benzene	ND		5	1		12/22/99 6:02	TF	138435
Ethylbenzene	ND		5	1		12/22/99 6:02	TF	138435
Methyl tert-butyl ether	ND		10	1		12/22/99 6:02	TF	138435
Toluene	ND		5	1		12/22/99 6:02	TF	138435
m,p-Xylene	ND		5	1		12/22/99 6:02	TF	138435
o-Xylene	ND		5	1		12/22/99 6:02	TF	138435
Xylenes,Total	ND		5	1		12/22/99 6:02	TF	138435
Surr: 1,2-Dichloroethane-d4	100	%	70-120	1		12/22/99 6:02	TF	138435
Surr: 4-Bromofluorobenzene	110	%	74-130	1		12/22/99 6:02	TF	138435

Wyatt, Neaundra
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
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Client Sample ID: PMW-3-10 **Collected:** 12/16/99 2:07:00 **SPL Sample ID:** 99120502-02

Site: 7-3399,19432526

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			**MCL**	**CA_GRO**		**Units: mg/Kg**		
Gasoline Range Organics	ND		1	1		12/21/99 18:09	CJ	139527
Surr: 1,4-Difluorobenzene	130	%	72-153	1		12/21/99 18:09	CJ	139527
Surr: 4-Bromofluorobenzene	91	%	51-149	1		12/21/99 18:09	CJ	139527
VOLATILE ORGANICS METHOD 8260B			**MCL**	**SW8260B**		**Units: ug/Kg**		
Benzene	ND		5	1		12/22/99 7:26	TF	138438
Ethylbenzene	ND		5	1		12/22/99 7:26	TF	138438
Methyl tert-butyl ether	63		10	1		12/22/99 7:26	TF	138438
Toluene	ND		5	1		12/22/99 7:26	TF	138438
m,p-Xylene	ND		5	1		12/22/99 7:26	TF	138438
o-Xylene	ND		5	1		12/22/99 7:26	TF	138438
Xylenes,Total	ND		5	1		12/22/99 7:26	TF	138438
Surr: 1,2-Dichloroethane-d4	100	%	70-120	1		12/22/99 7:26	TF	138438
Surr: 4-Bromofluorobenzene	110	%	74-130	1		12/22/99 7:26	TF	138438

Neaundra Wyatt

Wyatt, Neaundra
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: PMW-3-15 **Collected:** 12/16/99 2:10:00 **SPL Sample ID:** 99120502-03

Site: 7-3399,19432526

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			**MCL**	**CA_GRO**		**Units: mg/Kg**		
Gasoline Range Organics	ND		1	1		12/21/99 18:37	CJ	139528
Surr: 1,4-Difluorobenzene	110	%	72-153	1		12/21/99 18:37	CJ	139528
Surr: 4-Bromofluorobenzene	81	%	51-149	1		12/21/99 18:37	CJ	139528
VOLATILE ORGANICS METHOD 8260B			**MCL**	**SW8260B**		**Units: ug/Kg**		
Benzene	ND		5	1		12/22/99 22:10	TF	139258
Ethylbenzene	ND		5	1		12/22/99 22:10	TF	139258
Methyl tert-butyl ether	ND		10	1		12/22/99 22:10	TF	139258
Toluene	ND		5	1		12/22/99 22:10	TF	139258
m,p-Xylene	ND		5	1		12/22/99 22:10	TF	139258
o-Xylene	ND		5	1		12/22/99 22:10	TF	139258
Xylenes,Total	ND		5	1		12/22/99 22:10	TF	139258
Surr: 1,2-Dichloroethane-d4	110	%	70-120	1		12/22/99 22:10	TF	139258
Surr: 4-Bromofluorobenzene	110	%	74-130	1		12/22/99 22:10	TF	139258

Neaundra Wyatt

Wyatt, Neaundra
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: PMW-4-5 **Collected:** 12/16/99 3:45:00 **SPL Sample ID:** 99120502-04

Site: 7-3399,19432526

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			**MCL**	**CA_GRO**		**Units: mg/Kg**		
Gasoline Range Organics	ND		1	1		12/21/99 19:06	CJ	139529
Surr: 1,4-Difluorobenzene	99	%	72-153	1		12/21/99 19:06	CJ	139529
Surr: 4-Bromofluorobenzene	99	%	51-149	1		12/21/99 19:06	CJ	139529
VOLATILE ORGANICS METHOD 8260B			**MCL**	**SW8260B**		**Units: ug/Kg**		
Benzene	ND		5	1		12/22/99 10:08	TF	138439
Ethylbenzene	ND		5	1		12/22/99 10:08	TF	138439
Methyl tert-butyl ether	ND		10	1		12/22/99 10:08	TF	138439
Toluene	ND		5	1		12/22/99 10:08	TF	138439
m,p-Xylene	ND		5	1		12/22/99 10:08	TF	138439
o-Xylene	ND		5	1		12/22/99 10:08	TF	138439
Xylenes,Total	ND		5	1		12/22/99 10:08	TF	138439
Surr: 1,2-Dichloroethane-d4	100	%	70-120	1		12/22/99 10:08	TF	138439
Surr: 4-Bromofluorobenzene	100	%	74-130	1		12/22/99 10:08	TF	138439

Neaundra Wyatt

Wyatt, Neaundra
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
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Client Sample ID: PMW-4-10 **Collected:** 12/16/99 3:48:00 **SPL Sample ID:** 99120502-05

Site: 7-3399,19432526

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			**MCL**	**CA_GRO**		**Units: mg/Kg**		
Gasoline Range Organics	ND		1	1		12/21/99 19:34	CJ	139530
Surr: 1,4-Difluorobenzene	96	%	72-153	1		12/21/99 19:34	CJ	139530
Surr: 4-Bromofluorobenzene	98	%	51-149	1		12/21/99 19:34	CJ	139530
VOLATILE ORGANICS METHOD 8260B			**MCL**	**SW8260B**		**Units: ug/Kg**		
Benzene	ND		5	1		12/22/99 10:36	TF	138440
Ethylbenzene	ND		5	1		12/22/99 10:36	TF	138440
Methyl tert-butyl ether	ND		10	1		12/22/99 10:36	TF	138440
Toluene	ND		5	1		12/22/99 10:36	TF	138440
m,p-Xylene	ND		5	1		12/22/99 10:36	TF	138440
o-Xylene	ND		5	1		12/22/99 10:36	TF	138440
Xylenes,Total	ND		5	1		12/22/99 10:36	TF	138440
Surr: 1,2-Dichloroethane-d4	100	%	70-120	1		12/22/99 10:36	TF	138440
Surr: 4-Bromofluorobenzene	110	%	74-130	1		12/22/99 10:36	TF	138440

Wyatt, Neaundra
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: PMW-4-15 **Collected:** 12/16/99 3:51:00 **SPL Sample ID:** 99120502-06

Site: 7-3399,19432526

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			**MCL**	**CA_GRO**		**Units: mg/Kg**		
Gasoline Range Organics	ND		1	1		12/21/99 20:02	CJ	139531
Surr: 1,4-Difluorobenzene	100	%	72-153	1		12/21/99 20:02	CJ	139531
Surr: 4-Bromofluorobenzene	76	%	51-149	1		12/21/99 20:02	CJ	139531
VOLATILE ORGANICS METHOD 8260B			**MCL**	**SW8260B**		**Units: ug/Kg**		
Benzene	ND		5	1		12/22/99 20:15	TF	139254
Ethylbenzene	ND		5	1		12/22/99 20:15	TF	139254
Methyl tert-butyl ether	ND		10	1		12/22/99 20:15	TF	139254
Toluene	ND		5	1		12/22/99 20:15	TF	139254
m,p-Xylene	ND		5	1		12/22/99 20:15	TF	139254
o-Xylene	ND		5	1		12/22/99 20:15	TF	139254
Xylenes,Total	ND		5	1		12/22/99 20:15	TF	139254
Surr: 1,2-Dichloroethane-d4	110	%	70-120	1		12/22/99 20:15	TF	139254
Surr: 4-Bromofluorobenzene	110	%	74-130	1		12/22/99 20:15	TF	139254

Neaundra Wyatt

Wyatt, Neaundra
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: PMW-6-5 **Collected:** 12/17/99 8:05:00 **SPL Sample ID:** 99120502-07

Site: 7-3399,19432526

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			**MCL**	**CA_GRO**		**Units: mg/Kg**		
Gasoline Range Organics	ND		1	1		12/21/99 20:31	CJ	139532
Surr: 1,4-Difluorobenzene	97	%	72-153	1		12/21/99 20:31	CJ	139532
Surr: 4-Bromofluorobenzene	98	%	51-149	1		12/21/99 20:31	CJ	139532
VOLATILE ORGANICS METHOD 8260B			**MCL**	**SW8260B**		**Units: ug/Kg**		
Benzene	ND		5	1		12/22/99 20:44	TF	139255
Ethylbenzene	ND		5	1		12/22/99 20:44	TF	139255
Methyl tert-butyl ether	ND		10	1		12/22/99 20:44	TF	139255
Toluene	ND		5	1		12/22/99 20:44	TF	139255
m,p-Xylene	ND		5	1		12/22/99 20:44	TF	139255
o-Xylene	ND		5	1		12/22/99 20:44	TF	139255
Xylenes,Total	ND		5	1		12/22/99 20:44	TF	139255
Surr: 1,2-Dichloroethane-d4	100	%	70-120	1		12/22/99 20:44	TF	139255
Surr: 4-Bromofluorobenzene	110	%	74-130	1		12/22/99 20:44	TF	139255

Neaundra Wyatt

Wyatt, Neaundra
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: PMW-6-10 **Collected:** 12/17/99 8:15:00 **SPL Sample ID:** 99120502-08

Site: 7-3399,19432526

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			**MCL**	**CA_GRO**		**Units: mg/Kg**		
Gasoline Range Organics	ND		1	1		12/21/99 20:59	CJ	139533
Surr: 1,4-Difluorobenzene	98	%	72-153	1		12/21/99 20:59	CJ	139533
Surr: 4-Bromofluorobenzene	100	%	51-149	1		12/21/99 20:59	CJ	139533
VOLATILE ORGANICS METHOD 8260B			**MCL**	**SW8260B**		**Units: ug/Kg**		
Benzene	ND		5	1		12/22/99 21:13	TF	139256
Ethylbenzene	ND		5	1		12/22/99 21:13	TF	139256
Methyl tert-butyl ether	ND		10	1		12/22/99 21:13	TF	139256
Toluene	ND		5	1		12/22/99 21:13	TF	139256
m,p-Xylene	ND		5	1		12/22/99 21:13	TF	139256
o-Xylene	ND		5	1		12/22/99 21:13	TF	139256
Xylenes,Total	ND		5	1		12/22/99 21:13	TF	139256
Surr: 1,2-Dichloroethane-d4	98	%	70-120	1		12/22/99 21:13	TF	139256
Surr: 4-Bromofluorobenzene	110	%	74-130	1		12/22/99 21:13	TF	139256

Neaundra Wyatt

Wyatt, Neaundra
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: PMW-6-15 **Collected:** 12/17/99 8:20:00 **SPL Sample ID:** 99120502-09

Site: 7-3399,19432526

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			**MCL**	**CA_GRO**		**Units: mg/Kg**		
Gasoline Range Organics	55		1	10		12/26/99 12:38	CJ	139593
Surr: 1,4-Difluorobenzene	160	%	72-153	10	*	12/26/99 12:38	CJ	139593
Surr: 4-Bromofluorobenzene	93	%	51-149	10		12/26/99 12:38	CJ	139593
VOLATILE ORGANICS METHOD 8260B			**MCL**	**SW8260B**		**Units: ug/Kg**		
Benzene	160		5	1		12/22/99 21:41	TF	139257
Ethylbenzene	9000		620	125		12/27/99 14:10	HW	140247
Methyl tert-butyl ether	ND		10	1		12/22/99 21:41	TF	139257
Toluene	ND		5	1		12/22/99 21:41	TF	139257
m,p-Xylene	35		5	1		12/22/99 21:41	TF	139257
o-Xylene	ND		5	1		12/22/99 21:41	TF	139257
Xylenes,Total	35		5	1		12/22/99 21:41	TF	139257
Surr: 1,2-Dichloroethane-d4	94	%	70-120	125		12/27/99 14:10	HW	140247
Surr: 1,2-Dichloroethane-d4	100	%	70-120	1		12/22/99 21:41	TF	139257
Surr: 4-Bromofluorobenzene	99	%	74-130	125		12/27/99 14:10	HW	140247
Surr: 4-Bromofluorobenzene	100	%	74-130	1		12/22/99 21:41	TF	139257
Surr: Toluene-d8	110	%	80-140	125		12/27/99 14:10	HW	140247

Neaundra Wyatt

Wyatt, Neaundra
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

Quality Control Documentation

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

D094-836

Analysis: Gasoline Range Organics **WorkOrder:** 99120502
Method: CA_GRO **Lab Batch ID:** R6597

Method Blank

RunID: HP_O_991223B-139484 Units: mg/Kg
Analysis Date: 12/23/1999 22:03 Analyst: CJ

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
99120502-09A	PMW-6-15

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	94.9	72-153
Surr: 4-Bromofluorobenzene	103.2	51-149

Laboratory Control Sample (LCS)

RunID: HP_O_991223B-139481 Units: mg/Kg
Analysis Date: 12/23/1999 19:42 Analyst: CJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.64	64	53	137

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99120563-02
RunID: HP_O_991223B-139482 Units: mg/Kg
Analysis Date: 12/23/1999 21:06 Analyst: CJ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	0.9	0.6	66.2	0.9	0.61	68.1	2.76	50	36	163

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

D094-836

Analysis: Gasoline Range Organics
Method: CA_GRO
WorkOrder: 99120502
Lab Batch ID: R6599

Method Blank

RunID: HP_O_991221B-139525 Units: mg/Kg
Analysis Date: 12/21/1999 17:12 Analyst: CJ

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	1.0
Surr: 1,4-Difluorobenzene	95.7	72-153
Surr: 4-Bromofluorobenzene	103.4	51-149

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
99120502-01A	PMW-3-5
99120502-02A	PMW-3-10
99120502-03A	PMW-3-15
99120502-04A	PMW-4-5
99120502-05A	PMW-4-10
99120502-06A	PMW-4-15
99120502-07A	PMW-6-5
99120502-08A	PMW-6-10

Laboratory Control Sample (LCS)

RunID: HP_O_991221B-139522 Units: mg/Kg
Analysis Date: 12/21/1999 14:51 Analyst: CJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.67	67	53	137

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99120502-01
RunID: HP_O_991221B-139523 Units: mg/Kg
Analysis Date: 12/21/1999 16:16 Analyst: CJ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	0.9	0.68	75.5	0.9	0.87	97.0	24.9	50	36	163

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

D094-836

Analysis: Volatile Organics Method 8260B
Method: SW8260B

WorkOrder: 99120502
Lab Batch ID: R6535

Method Blank

RunID: K_991221B-138427 Units: ug/Kg
Analysis Date: 12/22/1999 1:21 Analyst: TF

Analyte	Result	Rep Limit
Benzene	ND	5.0
Ethylbenzene	ND	5.0
Methyl tert-butyl ether	ND	10
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	96.0	70-120
Surr: 4-Bromofluorobenzene	108.0	74-130

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
99120502-01A	PMW-3-5
99120502-02A	PMW-3-10
99120502-04A	PMW-4-5
99120502-05A	PMW-4-10

Laboratory Control Sample (LCS)

RunID: K_991221B-138426 Units: ug/Kg
Analysis Date: 12/22/1999 0:25 Analyst: TF
Preparation Date: 12/13/1999 17:04 Prep By: LT Method SW5035

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,1-Dichloroethene	50	31	62	59	172
Benzene	50	40	80	66	142
Chlorobenzene	50	50	100	60	133
Toluene	50	42	84	59	139
Trichloroethene	50	48	96	62	137

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99120502-01
RunID: K_991221B-138436 Units: ug/Kg
Analysis Date: 12/22/1999 6:30 Analyst: TF

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,1-Dichloroethene	ND	50	28	56*	50	30	60	7	22	59	172
Benzene	ND	50	36	72	50	38	76	5	21	66	142
Chlorobenzene	ND	50	30	60	50	33	66	10	21	60	133
Toluene	ND	50	32	64	50	36	72	12	21	59	139
Trichloroethene	ND	50	38	76	50	40	80	5	24	62	137

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

D094-836

Analysis: Volatile Organics Method 8260B
Method: SW8260B
WorkOrder: 99120502
Lab Batch ID: R6579

Method Blank

RunID: K_991222A-139245 Units: ug/Kg
Analysis Date: 12/22/1999 13:02 Analyst: TF

Analyte	Result	Rep Limit
Benzene	ND	5.0
Ethylbenzene	ND	5.0
Methyl tert-butyl ether	ND	10
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	96.0	70-120
Surr: 4-Bromofluorobenzene	104.0	74-130

Samples In Analytical Batch:

Lab Sample ID	Client Sample ID
99120502-03A	PMW-3-15
99120502-06A	PMW-4-15
99120502-07A	PMW-6-5
99120502-08A	PMW-6-10
99120502-09A	PMW-6-15

Laboratory Control Sample (LCS)

RunID: K_991222A-139246 Units: ug/Kg
Analysis Date: 12/22/1999 14:34 Analyst: TF
Preparation Date: 12/13/1999 17:04 Prep By: LT Method SW5035

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,1-Dichloroethene	50	37	74	59	172
Benzene	50	42	84	66	142
Chlorobenzene	50	45	90	60	133
Toluene	50	41	82	59	139
Trichloroethene	50	47	94	62	137

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99120511-08
RunID: K_991222A-139247 Units: ug/Kg-dry
Analysis Date: 12/22/1999 16:27 Analyst: TF

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,1-Dichloroethene	ND	61	38	62	61	41	68	9	22	59	172
Benzene	ND	61	37	60*	61	40	66	10	21	66	142
Chlorobenzene	ND	61	27	44*	61	34	56*	24*	21	60	133
Toluene	ND	61	32	52*	61	37	60	14	21	59	139
Trichloroethene	410	61	870	740*	61	820	660*	11	24	62	137

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

D094-836

Analysis: Volatile Organics Method 8260B
Method: SW8260B
WorkOrder: 99120502
Lab Batch ID: R6647

Method Blank

RunID: M_991227B-140246 Units: ug/Kg
Analysis Date: 12/27/1999 12:54 Analyst: HW

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
99120502-09A	PMW-6-15

Analyte	Result	Rep Limit
Ethylbenzene	ND	5.0
Surr: 1,2-Dichloroethane-d4	00.8	70-120
Surr: 4-Bromofluorobenzene	00.8	74-130
Surr: Toluene-d8	00.8	80-140

Laboratory Control Sample (LCS)

RunID: M_991227B-140245 Units: ug/Kg
Analysis Date: 12/27/1999 10:47 Analyst: HW

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,1-Dichloroethene	50	45	90	59	172
Benzene	50	50	100	66	142
Chlorobenzene	50	49	98	60	135
Toluene	50	50	100	59	139
Trichloroethene	50	50	100	62	137

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 99120502-09
RunID: M_991227B-140248 Units: ug/Kg
Analysis Date: 12/27/1999 14:35 Analyst: HW

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,1-Dichloroethene	ND	6250	5400	86	6250	5500	88	2	22	59	172
Benzene	ND	6250	7100	111	6250	6900	108	3	21	66	142
Chlorobenzene	ND	6250	6400	102	6250	6400	102	0	21	60	133
Toluene	ND	6250	6400	102	6250	6300	101	2	21	59	139
Trichloroethene	ND	6250	6200	99	6250	6100	98	2	24	62	137

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution

Chain of Custody

And

Sample Receipt Checklist

EXXON COMPANY, USA. 99120502

CHAIN OF CUSTODY RECORD NO. _____ Page 1 of 1

Exxon Engineer: Darin Rouse Phone: (925) 246-8768

Consultant Co. Name: Delta Env. Contact: Jim Brownell

Address: 3164 Gold Camp Dr. #200 Phone: (916) 638-2765

Rancho Cordova, Ca 95670 Fax: (916) 638-8385

RAS #: 7-3399 Facility/State ID # (TN Only): _____

AFE # (Terminal Only): _____ Consultant Project #: D894-8360

Location: 2991 Hopyard Road (City): Pleasanton (State): Ca

☒ EE ☐ C & M ☐ SDT

Consultant Work Release #: 194325526

Sampled By: J. William Speth

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX H2O	MATRIX SOIL	MATRIX AIR	OTHER	PRESERVATIVE	NO. OF CONTAINERS	CONTAINER SIZE 8oz Wide mouth Glass	BTEX 8020 ☐ WITH MTBE ☒ 8260	PURGEABLE HALOCARBON 8010 ☐ 601 ☐	TPH/IR 418.1 ☐	O&G IR 413.1 ☐ GRAV. 413.2 ☐	TPH/GC 8015 GRO ☒ 8015 DRO ☐	VOL 8240 ☐ 624 ☐	SEMI-VOL 8270 ☐ 625 ☐	PNA/PAH 8100 ☐ 8310 ☐ 8270 ☐	PCB/PEST 8080 ☐ PCB ONLY ☐	TCLP FULL ☐ VOA ☐ SEMI-VOA ☐ PEST ☐ HERB ☐	METALS, TOTAL ☐ METALS, TCLP ☐	LEAD, TOTAL 239.1 ☐ 7421 ☐ LEAD, TCLP ☐	TOX/TOH ☐	REACTIVITY ☐ CORROSIVITY ☐ IGNITABILITY ☐	OTHER: STATE California			
PMW-3-5	12/16/99	1402		X		X			ICE	1	X	X				X										X			
PMW-3-10		1407								1	X																		
PMW-3-15		1410								1	X																		
PMW-4-5		1545								1	X																		
PMW-4-10		1548								1	X																		
PMW-4-15	12/16/99	1551								1	X																		
PMW-6-5	12/17/99	0805								1	X																		
PMW-6-10	12/17/99	0815								1	X																		
PMW-6-15	12/17/99	0820		X		X			ICE	1	X	X				X										X			

TAT
24 HR. ___* 72 Hr. ___*
48 HR. ___* 96 Hr. ___*
Standard X *Contact US Prior to Sending Sample
Other ___

EXXON UST CONTRACT NO. S02317M01

QA/QC Level
Standard ☒ CLP ☐ Other ☐ _____

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

FAX ☐ ☒ FAX C-O-C W/REPORT

REMARKS: BTEX/MTBE by EPA Method 8260

6

LAB USE ONLY Lot # 1100 NW

WORK ORDER #: 99120502 LAB WORK RELEASE #: _____ Storage Location 5

CUSTODY RECORD

	Date	Time	
Relinquished By Sampler: Delta	12/17/99	1400	Received By:
Relinquished By:	Date	Time	Received By:
Relinquished By:	Date	Time	Received By Laboratory: Way Bill #: Cooler Temp: 10/20 1800

SHIP SAMPLES BACK TO: SPL INCORPORATED, 8880 Interchange Drive, Houston, TX 77054 Ph: (713) 660-0901 FAX (713) 660-8975 Ph: 1-800-969-6775

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	99120502	Received by:	Stelly, D'Anna
Date and Time Received:	12/20/99 3:00:00 PM	Carrier name:	FedEx
Temperature:	6		

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	Not Present ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

ENCLOSURE E

Laboratory Analytical Report for Water Samples

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

EXXON Company U.S.A.

Certificate of Analysis Number:

99120639

Report To: Delta Environmental Consultants, Inc.
~~Jim R. Brownell, R.G.~~ Will
3164 Gold Camp Drive, Suite 200

Rancho Cordova
California
95670-
ph: (916) 638-2765 fax: (916) 638-8385

Fax To: *Delta Environmental Consultants, Inc.*
Jim R. Brownell, R.G. fax: (916) 638-8385

Project Name: D049-836
Site: 7-3399,19900912
Site Address:

PO Number:
State: California
State Cert. No.: 1903
Date Reported:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
Rinsate	99120639-01	Water	12/22/99 12:10:00 PM	12/28/99 10:00:00 AM		
Atmos	99120639-02	Water	12/22/99 12:55:00 PM	12/28/99 10:00:00 AM		
Dup #1	99120639-03	Water	12/22/99	12/28/99 10:00:00 AM		
Dup #2	99120639-04	Water	12/22/99	12/28/99 10:00:00 AM		
VR 2	99120639-05	Water	12/22/99 1:25:00 PM	12/28/99 10:00:00 AM		
T-South	99120639-06	Water	12/22/99 1:47:00 PM	12/28/99 10:00:00 AM		
T-North	99120639-07	Water	12/22/99 2:07:00 PM	12/28/99 10:00:00 AM		
PMW-5	99120639-08	Water	12/22/99 1:35:00 PM	12/28/99 10:00:00 AM		

Per Jim the samples for SimDis analysis will be re-sampled.

1/17/00

Wyatt, Neaundra
Project Manager

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID Rinsate **Collected:** 12/22/99 12:10:0 **SPL Sample ID:** 99120639-01

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				**MCL**	**CA_GRO**		**Units: ug/L**		
Gasoline Range Organics	ND		50		1		12/30/99 2:07	WR	142275
Surr: 1,4-Difluorobenzene	97	%	62-144		1		12/30/99 2:07	WR	142275
Surr: 4-Bromofluorobenzene	99	%	44-153		1		12/30/99 2:07	WR	142275
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		1		1		12/30/99 2:07	WR	142221
Ethylbenzene	ND		1		1		12/30/99 2:07	WR	142221
Toluene	ND		1		1		12/30/99 2:07	WR	142221
m,p-Xylene	ND		1		1		12/30/99 2:07	WR	142221
o-Xylene	ND		1		1		12/30/99 2:07	WR	142221
Xylenes,Total	ND		1		1		12/30/99 2:07	WR	142221
Surr: 1,4-Difluorobenzene	90	%	72-137		1		12/30/99 2:07	WR	142221
Surr: 4-Bromofluorobenzene	100	%	48-156		1		12/30/99 2:07	WR	142221
VOLATILE ORGANICS METHOD 8260B				**MCL**	**SW8260B**		**Units: ug/L**		
Methyl tert-butyl ether	ND		5		1		01/03/00 11:23	HW	144703
Surr: 1,2-Dichloroethane-d4	82	%	80-120		1		01/03/00 11:23	HW	144703
Surr: 4-Bromofluorobenzene	96	%	86-115		1		01/03/00 11:23	HW	144703
Surr: Toluene-d8	110	%	88-110		1		01/03/00 11:23	HW	144703

Wyatt, Neaundra
Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID Atmos **Collected:** 12/22/99 12:55:0 **SPL Sample ID:** 99120639-02

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRO		Units: ug/L		
Gasoline Range Organics	ND		50	1		12/30/99 2:22	D_R	142509
Surr: 1,4-Difluorobenzene	94	%	62-144	1		12/30/99 2:22	D_R	142509
Surr: 4-Bromofluorobenzene	95	%	44-153	1		12/30/99 2:22	D_R	142509
PURGEABLE AROMATICS			MCL	SW8021B		Units: ug/L		
Benzene	ND		1	1		12/30/99 2:22	D_R	142424
Ethylbenzene	ND		1	1		12/30/99 2:22	D_R	142424
Toluene	ND		1	1		12/30/99 2:22	D_R	142424
m,p-Xylene	ND		1	1		12/30/99 2:22	D_R	142424
o-Xylene	ND		1	1		12/30/99 2:22	D_R	142424
Xylenes,Total	ND		1	1		12/30/99 2:22	D_R	142424
Surr: 1,4-Difluorobenzene	93	%	72-137	1		12/30/99 2:22	D_R	142424
Surr: 4-Bromofluorobenzene	91	%	48-156	1		12/30/99 2:22	D_R	142424
VOLATILE ORGANICS METHOD 8260B			MCL	SW8260B		Units: ug/L		
Methyl tert-butyl ether	ND		5	1		01/03/00 13:03	HW	144707
Surr: 1,2-Dichloroethane-d4	100	%	80-120	1		01/03/00 13:03	HW	144707
Surr: 4-Bromofluorobenzene	98	%	86-115	1		01/03/00 13:03	HW	144707
Surr: Toluene-d8	110	%	88-110	1		01/03/00 13:03	HW	144707

Wyatt, Neaundra
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID Dup #1 **Collected:** 12/22/99 **SPL Sample ID:** 99120639-03

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRO		Units: ug/L		
Gasoline Range Organics	ND		50	1		12/30/99 1:58	D_R	142508
Surr: 1,4-Difluorobenzene	94	%	62-144	1		12/30/99 1:58	D_R	142508
Surr: 4-Bromofluorobenzene	96	%	44-153	1		12/30/99 1:58	D_R	142508
PURGEABLE AROMATICS			MCL	SW8021B		Units: ug/L		
Benzene	ND		1	1		12/30/99 1:58	D_R	142423
Ethylbenzene	ND		1	1		12/30/99 1:58	D_R	142423
Toluene	ND		1	1		12/30/99 1:58	D_R	142423
m,p-Xylene	ND		1	1		12/30/99 1:58	D_R	142423
o-Xylene	ND		1	1		12/30/99 1:58	D_R	142423
Xylenes,Total	ND		1	1		12/30/99 1:58	D_R	142423
Surr: 1,4-Difluorobenzene	92	%	72-137	1		12/30/99 1:58	D_R	142423
Surr: 4-Bromofluorobenzene	89	%	48-156	1		12/30/99 1:58	D_R	142423
VOLATILE ORGANICS METHOD 8260B			MCL	SW8260B		Units: ug/L		
Methyl tert-butyl ether	ND		5	1		01/03/00 13:29	HW	144708
Surr: 1,2-Dichloroethane-d4	100	%	80-120	1		01/03/00 13:29	HW	144708
Surr: 4-Bromofluorobenzene	100	%	86-115	1		01/03/00 13:29	HW	144708
Surr: Toluene-d8	110	%	88-110	1		01/03/00 13:29	HW	144708

Wyatt, Neaundra
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID Dup #2 **Collected:** 12/22/99 **SPL Sample ID:** 99120639-04

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			**MCL**	**CA_GRO**		**Units: ug/L**		
Gasoline Range Organics	ND		50	1		12/30/99 12:51	WR	143730
Surr: 1,4-Difluorobenzene	96	%	62-144	1		12/30/99 12:51	WR	143730
Surr: 4-Bromofluorobenzene	99	%	44-153	1		12/30/99 12:51	WR	143730
PURGEABLE AROMATICS			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		1	1		12/30/99 12:51	WR	143772
Ethylbenzene	ND		1	1		12/30/99 12:51	WR	143772
Toluene	ND		1	1		12/30/99 12:51	WR	143772
m,p-Xylene	ND		1	1		12/30/99 12:51	WR	143772
o-Xylene	ND		1	1		12/30/99 12:51	WR	143772
Xylenes,Total	ND		1	1		12/30/99 12:51	WR	143772
Surr: 1,4-Difluorobenzene	88	%	72-137	1		12/30/99 12:51	WR	143772
Surr: 4-Bromofluorobenzene	100	%	48-156	1		12/30/99 12:51	WR	143772
VOLATILE ORGANICS METHOD 8260B			**MCL**	**SW8260B**		**Units: ug/L**		
Methyl tert-butyl ether	ND		5	1		01/03/00 13:54	HW	144709
Surr: 1,2-Dichloroethane-d4	100	%	80-120	1		01/03/00 13:54	HW	144709
Surr: 4-Bromofluorobenzene	98	%	86-115	1		01/03/00 13:54	HW	144709
Surr: Toluene-d8	110	%	88-110	1		01/03/00 13:54	HW	144709

Wyatt, Neaundra
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID VR 2 **Collected:** 12/22/99 1:25:00 **SPL Sample ID:** 99120639-05

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				**MCL**	**CA_GRO**		**Units: ug/L**		
Gasoline Range Organics	ND		50		1		12/30/99 14:50	WR	143741
Surr: 1,4-Difluorobenzene	95	%	62-144		1		12/30/99 14:50	WR	143741
Surr: 4-Bromofluorobenzene	98	%	44-153		1		12/30/99 14:50	WR	143741
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		1		1		12/30/99 14:50	WR	143776
Ethylbenzene	ND		1		1		12/30/99 14:50	WR	143776
Toluene	ND		1		1		12/30/99 14:50	WR	143776
m,p-Xylene	ND		1		1		12/30/99 14:50	WR	143776
o-Xylene	ND		1		1		12/30/99 14:50	WR	143776
Xylenes,Total	ND		1		1		12/30/99 14:50	WR	143776
Surr: 1,4-Difluorobenzene	89	%	72-137		1		12/30/99 14:50	WR	143776
Surr: 4-Bromofluorobenzene	100	%	48-156		1		12/30/99 14:50	WR	143776
SEMIVOLATILE HYDROCARBONS				**MCL**	**SW8015B**		**Units: mg/L**		
Ethylene Glycol	ND		10		2		01/10/00 16:20	DR	150471
Surr: Triethylene Glycol	24	%	50-150		2		01/10/00 16:20	DR	150471
VOLATILE ORGANICS METHOD 8260B				**MCL**	**SW8260B**		**Units: ug/L**		
Methyl tert-butyl ether	34		5		1		01/03/00 14:19	HW	144710
Surr: 1,2-Dichloroethane-d4	88	%	80-120		1		01/03/00 14:19	HW	144710
Surr: 4-Bromofluorobenzene	98	%	86-115		1		01/03/00 14:19	HW	144710
Surr: Toluene-d8	110	%	88-110		1		01/03/00 14:19	HW	144710

Wyatt, Neaundra
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
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J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID T-South **Collected:** 12/22/99 1:47:00 **SPL Sample ID:** 99120639-06

Site: 7-3398,19900912

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				**MCL**	**CA_GRO**		**Units: ug/L**		
Gasoline Range Organics	410		250		5		12/30/99 15:14	WR	143742
Surr: 1,4-Difluorobenzene	100	%	62-144		5		12/30/99 15:14	WR	143742
Surr: 4-Bromofluorobenzene	98	%	44-153		5		12/30/99 15:14	WR	143742
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		5		5		12/30/99 15:14	WR	143777
Ethylbenzene	ND		5		5		12/30/99 15:14	WR	143777
Toluene	ND		5		5		12/30/99 15:14	WR	143777
m,p-Xylene	ND		5		5		12/30/99 15:14	WR	143777
o-Xylene	ND		5		5		12/30/99 15:14	WR	143777
Xylenes,Total	5.2		5		5		12/30/99 15:14	WR	143777
Surr: 1,4-Difluorobenzene	91	%	72-137		250		01/03/00 11:45	WR	143984
Surr: 4-Bromofluorobenzene	100	%	48-156		250		01/03/00 11:45	WR	143984
SEMIVOLATILE HYDROCARBONS				**MCL**	**SW8015B**		**Units: mg/L**		
Ethylene Glycol	ND		10		2		01/10/00 16:01	DR	150470
Surr: Triethylene Glycol	11	%	50-150		2	*	01/10/00 16:01	DR	150470
VOLATILE ORGANICS METHOD 8260B				**MCL**	**SW8260B**		**Units: ug/L**		
Methyl tert-butyl ether	85000		2500		500		01/04/00 3:42	HW	144776
Surr: 1,2-Dichloroethane-d4	84	%	80-120		500		01/04/00 3:42	HW	144776
Surr: 4-Bromofluorobenzene	100	%	86-115		500		01/04/00 3:42	HW	144776
Surr: Toluene-d8	110	%	88-110		500		01/04/00 3:42	HW	144776

Wyatt, Neaundra
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
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J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID T-North **Collected:** 12/22/99 2:07:00 **SPL Sample ID:** 99120639-07

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				**MCL**	**CA_GRO**		**Units: ug/L**		
Gasoline Range Organics	360		250		5		12/30/99 15:37	WR	143750
Surr: 1,4-Difluorobenzene	100	%	62-144		5		12/30/99 15:37	WR	143750
Surr: 4-Bromofluorobenzene	99	%	44-153		5		12/30/99 15:37	WR	143750
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	12		5		5		12/30/99 15:37	WR	143778
Ethylbenzene	ND		5		5		12/30/99 15:37	WR	143778
Toluene	ND		5		5		12/30/99 15:37	WR	143778
m,p-Xylene	ND		5		5		12/30/99 15:37	WR	143778
o-Xylene	ND		5		5		12/30/99 15:37	WR	143778
Xylenes,Total	5.2		5		5		12/30/99 15:37	WR	143778
Surr: 1,4-Difluorobenzene	91	%	72-137		100		01/03/00 12:09	WR	143988
Surr: 4-Bromofluorobenzene	100	%	48-156		100		01/03/00 12:09	WR	143988
SEMIVOLATILE HYDROCARBONS				**MCL**	**SW8015B**		**Units: mg/L**		
Ethylene Glycol	ND		10		2		01/10/00 15:41	DR	150469
Surr: Triethylene Glycol	39	%	50-150		2	*	01/10/00 15:41	DR	150469
VOLATILE ORGANICS METHOD 8260B				**MCL**	**SW8260B**		**Units: ug/L**		
Methyl tert-butyl ether	44000		2500		500		01/04/00 4:07	HW	144777
Surr: 1,2-Dichloroethane-d4	84	%	80-120		500		01/04/00 4:07	HW	144777
Surr: 4-Bromofluorobenzene	96	%	86-115		500		01/04/00 4:07	HW	144777
Surr: Toluene-d8	110	%	88-110		500		01/04/00 4:07	HW	144777

Wyatt, Neaundra
Project Manager

Qualifiers:
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J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID PMW-5 **Collected:** 12/22/99 1:35:00 **SPL Sample ID:** 99120639-08

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				**MCL**	**CA_GRO**		**Units: ug/L**		
Gasoline Range Organics	ND		50		1		12/30/99 13:15	WR	143731
Surr: 1,4-Difluorobenzene	96	%	62-144		1		12/30/99 13:15	WR	143731
Surr: 4-Bromofluorobenzene	100	%	44-153		1		12/30/99 13:15	WR	143731
MERCURY, DISSOLVED				**MCL**	**SW7470A**		**Units: mg/L**		
Mercury	ND		0.0002		1		01/11/00 16:13	AG	152145

Run ID/Seq #: HGL_000111B-152145

Prep Method	Prep Date	Prep Initials
SW7470A	01/11/2000 11:30	AG

METALS BY METHOD 6010B, DISSOLVED			**MCL**	**SW6010B**	**Units: mg/L**		
Antimony	ND	0.005		1	01/10/00 14:06	EG	150117
Arsenic	ND	0.005		1	01/10/00 14:06	EG	150117
Lead	ND	0.005		1	01/10/00 14:06	EG	150117
Selenium	0.011	0.005		1	01/10/00 14:06	EG	150117
Thallium	ND	0.005		1	01/10/00 14:06	EG	150117
Barium	0.668	0.005		1	01/07/00 10:40	PB	149109
Beryllium	ND	0.003		1	01/07/00 10:40	PB	149109
Cadmium	ND	0.005		1	01/07/00 10:40	PB	149109
Chromium	0.0563	0.01		1	01/07/00 10:40	PB	149109
Cobalt	ND	0.01		1	01/07/00 10:40	PB	149109
Copper	0.0598	0.01		1	01/07/00 10:40	PB	149109
Lead	ND	0.05		1	01/07/00 10:40	PB	149109
Molybdenum	0.113	0.02		1	01/07/00 10:40	PB	149109
Nickel	0.0514	0.02		1	01/07/00 10:40	PB	149109
Silver	ND	0.01		1	01/07/00 10:40	PB	149109
Vanadium	0.0207	0.005		1	01/07/00 10:40	PB	149109
Zinc	0.177	0.02		1	01/07/00 10:40	PB	149109

Run ID/Seq #: TJA_000107A-149109

Prep Method	Prep Date	Prep Initials
SW3005	01/06/2000 15:15	AA

Run ID/Seq #: TJAT_000110A-150117

Prep Method	Prep Date	Prep Initials
SW3005	01/06/2000 15:15	AA

Wyatt, Neaundra
Project Manager

Qualifiers:
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID PMW-5 **Collected:** 12/22/99 1:35:00 **SPL Sample ID:** 99120639-08

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	1		1		1		12/30/99 13:15	WR	143773
Ethylbenzene	ND		1		1		12/30/99 13:15	WR	143773
Toluene	ND		1		1		12/30/99 13:15	WR	143773
m,p-Xylene	ND		1		1		12/30/99 13:15	WR	143773
o-Xylene	ND		1		1		12/30/99 13:15	WR	143773
Xylenes,Total	ND		5		5		01/03/00 12:33	WR	143996
Xylenes,Total	ND		1		1		12/30/99 13:15	WR	143773
Surr: 1,4-Difluorobenzene	91	%	72-137		5		01/03/00 12:33	WR	143996
Surr: 4-Bromofluorobenzene	100	%	48-156		5		01/03/00 12:33	WR	143996
SEMIVOLATILE HYDROCARBONS				**MCL**	**SW8015B**		**Units: mg/L**		
Ethylene Glycol	ND		10		2		01/10/00 15:15	DR	150468
Surr: Triethylene Glycol	88	%	50-150		2		01/10/00 15:15	DR	150468

Wyatt, Neaundra
Project Manager

Qualifiers:
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J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID PMW-5 **Collected:** 12/22/99 1:35:00 **SPL Sample ID:** 99120639-08

Site: 7-3399,19900912

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS METHOD 8260B		**MCL**	**SW8260B**		**Units: ug/L**		
1,1,1,2-Tetrachloroethane	ND	5	1		01/03/00 15:56	HW	144711
1,1,1-Trichloroethane	ND	5	1		01/03/00 15:56	HW	144711
1,1,2,2-Tetrachloroethane	ND	5	1		01/03/00 15:56	HW	144711
1,1,2-Trichloroethane	ND	5	1		01/03/00 15:56	HW	144711
1,1-Dichloroethane	ND	5	1		01/03/00 15:56	HW	144711
1,1-Dichloroethene	ND	5	1		01/03/00 15:56	HW	144711
1,1-Dichloropropene	ND	5	1		01/03/00 15:56	HW	144711
1,2,3-Trichlorobenzene	ND	5	1		01/03/00 15:56	HW	144711
1,2,3-Trichloropropane	39	5	1		01/03/00 15:56	HW	144711
1,2,4-Trichlorobenzene	ND	5	1		01/03/00 15:56	HW	144711
1,2,4-Trimethylbenzene	ND	5	1		01/03/00 15:56	HW	144711
1,2-Dibromo-3-chloropropane	ND	5	1		01/03/00 15:56	HW	144711
1,2-Dibromoethane	ND	5	1		01/03/00 15:56	HW	144711
1,2-Dichlorobenzene	ND	5	1		01/03/00 15:56	HW	144711
1,2-Dichloroethane	ND	5	1		01/03/00 15:56	HW	144711
1,2-Dichloropropane	ND	5	1		01/03/00 15:56	HW	144711
1,3,5-Trimethylbenzene	ND	5	1		01/03/00 15:56	HW	144711
1,3-Dichlorobenzene	ND	5	1		01/03/00 15:56	HW	144711
1,3-Dichloropropane	ND	5	1		01/03/00 15:56	HW	144711
1,4-Dichlorobenzene	ND	5	1		01/03/00 15:56	HW	144711
2,2-Dichloropropane	ND	5	1		01/03/00 15:56	HW	144711
2-Butanone	20	20	1		01/03/00 15:56	HW	144711
2-Chloroethyl vinyl ether	ND	10	1		01/03/00 15:56	HW	144711
2-Chlorotoluene	ND	5	1		01/03/00 15:56	HW	144711
2-Hexanone	ND	10	1		01/03/00 15:56	HW	144711
4-Chlorotoluene	ND	5	1		01/03/00 15:56	HW	144711
4-Isopropyltoluene	ND	5	1		01/03/00 15:56	HW	144711
4-Methyl-2-pentanone	ND	10	1		01/03/00 15:56	HW	144711
Acetone	160	100	1		01/03/00 15:56	HW	144711
Acrylonitrile	ND	50	1		01/03/00 15:56	HW	144711
Benzene	ND	5	1		01/03/00 15:56	HW	144711
Bromobenzene	ND	5	1		01/03/00 15:56	HW	144711
Bromochloromethane	ND	5	1		01/03/00 15:56	HW	144711
Bromodichloromethane	ND	5	1		01/03/00 15:56	HW	144711
Bromoform	ND	5	1		01/03/00 15:56	HW	144711
Bromomethane	ND	10	1		01/03/00 15:56	HW	144711
Carbon disulfide	ND	5	1		01/03/00 15:56	HW	144711
Carbon tetrachloride	ND	5	1		01/03/00 15:56	HW	144711
Chlorobenzene	ND	5	1		01/03/00 15:56	HW	144711

Wyatt, Neaundra
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID PMW-5 **Collected:** 12/22/99 1:35:00 **SPL Sample ID:** 99120639-08

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Chloroethane	ND		10	1		01/03/00 15:56	HW	144711
Chloroform	ND		5	1		01/03/00 15:56	HW	144711
Chloromethane	ND		10	1		01/03/00 15:56	HW	144711
cis-1,3-Dichloropropene	ND		5	1		01/03/00 15:56	HW	144711
Dibromochloromethane	ND		5	1		01/03/00 15:56	HW	144711
Dibromomethane	ND		5	1		01/03/00 15:56	HW	144711
Dichlorodifluoromethane	ND		10	1		01/03/00 15:56	HW	144711
Ethylbenzene	ND		5	1		01/03/00 15:56	HW	144711
Hexachlorobutadiene	ND		5	1		01/03/00 15:56	HW	144711
Isopropylbenzene	ND		5	1		01/03/00 15:56	HW	144711
Methyl tert-butyl ether	610		50	10		01/04/00 4:32	HW	144778
Methylene chloride	ND		5	1		01/03/00 15:56	HW	144711
n-Butylbenzene	ND		5	1		01/03/00 15:56	HW	144711
n-Propylbenzene	ND		5	1		01/03/00 15:56	HW	144711
Naphthalene	ND		5	1		01/03/00 15:56	HW	144711
sec-Butylbenzene	ND		5	1		01/03/00 15:56	HW	144711
Styrene	ND		5	1		01/03/00 15:56	HW	144711
tert-Butylbenzene	ND		5	1		01/03/00 15:56	HW	144711
Tetrachloroethene	ND		5	1		01/03/00 15:56	HW	144711
Toluene	ND		5	1		01/03/00 15:56	HW	144711
trans-1,3-Dichloropropene	ND		5	1		01/03/00 15:56	HW	144711
Trichloroethene	ND		5	1		01/03/00 15:56	HW	144711
Trichlorofluoromethane	ND		5	1		01/03/00 15:56	HW	144711
Vinyl acetate	ND		10	1		01/03/00 15:56	HW	144711
Vinyl chloride	ND		10	1		01/03/00 15:56	HW	144711
cis-1,2-Dichloroethene	ND		5	1		01/03/00 15:56	HW	144711
m,p-Xylene	ND		5	1		01/03/00 15:56	HW	144711
o-Xylene	ND		5	1		01/03/00 15:56	HW	144711
trans-1,2-Dichloroethene	ND		5	1		01/03/00 15:56	HW	144711
1,2-Dichloroethene (total)	ND		5	1		01/03/00 15:56	HW	144711
Xylenes,Total	ND		5	1		01/03/00 15:56	HW	144711
Surr: 1,2-Dichloroethane-d4	100	%	80-120	1		01/03/00 15:56	HW	144711
Surr: 1,2-Dichloroethane-d4	92	%	80-120	10		01/04/00 4:32	HW	144778
Surr: 4-Bromofluorobenzene	100	%	86-115	1		01/03/00 15:56	HW	144711
Surr: 4-Bromofluorobenzene	98	%	86-115	10		01/04/00 4:32	HW	144778
Surr: Toluene-d8	110	%	88-110	10		01/04/00 4:32	HW	144778
Surr: Toluene-d8	110	%	88-110	1		01/03/00 15:56	HW	144711

Wyatt, Neaundra
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
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D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

EXXON Company U.S.A.

Certificate of Analysis Number:

99120638

Report To: Delta Environmental Consultants, Inc.
Jim R. Brownell, R.G.
3164 Gold Camp Drive, Suite 200

Rancho Cordova
California
95670-
ph: (916) 638-2085 fax: (916) 638-8385

Fax To: *Delta Environmental Consultants, Inc.*
Jim R. Brownell, R.G. *fax: (916) 638-8385*

Project Name: D049-836
Site: 7-3399,19900912
Site Address:

PO Number:
State:
State Cert. No.:
Date Reported: 1/14/00

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-1	99120638-01	Water	12/22/99 1:30:00 PM	12/28/99 10:00:00 AM		☐
MW-5S	99120638-02	Water	12/22/99 11:55:00 AM	12/28/99 10:00:00 AM		☐
MW-5D	99120638-03	Water	12/22/99 11:40:00 AM	12/28/99 10:00:00 AM		☐
MW-7	99120638-04	Water	12/22/99 2:55:00 PM	12/28/99 10:00:00 AM		☐
MW-8	99120638-05	Water	12/22/99 12:50:00 PM	12/28/99 10:00:00 AM		☐
MW-9	99120638-06	Water	12/22/99 1:55:00 PM	12/28/99 10:00:00 AM		☑
MW-9	99120638-06	Water	12/22/99 1:55:00 PM	12/28/99 10:00:00 AM		☐
MW-10	99120638-07	Water	12/22/99 2:32:00 PM	12/28/99 10:00:00 AM		☐
MW-11	99120638-08	Water	12/22/99 2:57:00 PM	12/28/99 10:00:00 AM		☐
VR1	99120638-09	Water	12/22/99 3:25:00 PM	12/28/99 10:00:00 AM		☐
VR1	99120638-09	Water	12/22/99 3:25:00 PM	12/28/99 10:00:00 AM		☑

1/14/00

Wyatt, Neaundra
Project Manager

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

1/14/00 1:48:04 PM

HOUSTON LABORATORY
9880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW-1 **Collected:** 12/22/99 1:30:00 **SPL Sample ID:** 99120638-01

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRO		Units: ug/L		
Gasoline Range Organics	ND		50	1		12/29/99 22:32	WR	142266
Surr: 1,4-Difluorobenzene	97	%	62-144	1		12/29/99 22:32	WR	142266
Surr: 4-Bromofluorobenzene	100	%	44-153	1		12/29/99 22:32	WR	142266
PURGEABLE AROMATICS			MCL	SW8021B		Units: ug/L		
Benzene	1.9		1	1		12/29/99 22:32	WR	142151
Ethylbenzene	1.5		1	1		12/29/99 22:32	WR	142151
Toluene	1.4		1	1		12/29/99 22:32	WR	142151
m,p-Xylene	5.4		1	1		12/29/99 22:32	WR	142151
o-Xylene	1.9		1	1		12/29/99 22:32	WR	142151
Xylenes,Total	7.3		1	1		12/29/99 22:32	WR	142151
Surr: 1,4-Difluorobenzene	90	%	72-137	1		12/29/99 22:32	WR	142151
Surr: 4-Bromofluorobenzene	100	%	48-156	1		12/29/99 22:32	WR	142151
VOLATILE ORGANICS METHOD 8260B			MCL	SW8260B		Units: ug/L		
Methyl tert-butyl ether	940		50	10		12/30/99 18:55	HW	145182
Surr: 1,2-Dichloroethane-d4	110	%	80-120	10		12/30/99 18:55	HW	145182
Surr: 4-Bromofluorobenzene	100	%	86-115	10		12/30/99 18:55	HW	145182
Surr: Toluene-d8	110	%	88-110	10		12/30/99 18:55	HW	145182

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

1/14/00 4:02:09 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW-5S **Collected:** 12/22/99 11:55:0 **SPL Sample ID:** 99120638-02

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				MCL	CA_GRO		Units: ug/L		
Gasoline Range Organics	ND		50		1		12/29/99 22:56	WR	142267
Surr: 1,4-Difluorobenzene	95	%	62-144		1		12/29/99 22:56	WR	142267
Surr: 4-Bromofluorobenzene	99	%	44-153		1		12/29/99 22:56	WR	142267
PURGEABLE AROMATICS				MCL	SW8021B		Units: ug/L		
Benzene	ND		1		1		12/29/99 22:56	WR	142152
Ethylbenzene	ND		1		1		12/29/99 22:56	WR	142152
Toluene	ND		1		1		12/29/99 22:56	WR	142152
m,p-Xylene	ND		1		1		12/29/99 22:56	WR	142152
o-Xylene	ND		1		1		12/29/99 22:56	WR	142152
Xylenes, Total	ND		1		1		12/29/99 22:56	WR	142152
Surr: 1,4-Difluorobenzene	89	%	72-137		1		12/29/99 22:56	WR	142152
Surr: 4-Bromofluorobenzene	100	%	48-156		1		12/29/99 22:56	WR	142152
VOLATILE ORGANICS METHOD 8260B				MCL	SW8260B		Units: ug/L		
Methyl tert-butyl ether	ND		5		1		12/30/99 15:11	HW	145174
Surr: 1,2-Dichloroethane-d4	100	%	80-120		1		12/30/99 15:11	HW	145174
Surr: 4-Bromofluorobenzene	96	%	86-115		1		12/30/99 15:11	HW	145174
Surr: Toluene-d8	110	%	88-110		1		12/30/99 15:11	HW	145174

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

1/14/00 4:02:10 PM

HOUSTON LABORATORY
5980 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW-5D **Collected:** 12/22/99 11:40:0 **SPL Sample ID:** 99120638-03

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	DIL Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRO		Units: ug/L		
Gasoline Range Organics	ND		50	1		12/29/99 23:20	WR	142268
Surr: 1,4-Difluorobenzene	96	%	62-144	1		12/29/99 23:20	WR	142268
Surr: 4-Bromofluorobenzene	100	%	44-153	1		12/29/99 23:20	WR	142268
PURGEABLE AROMATICS			MCL	SW8021B		Units: ug/L		
Benzene	ND		1	1		12/29/99 23:20	WR	142153
Ethylbenzene	ND		1	1		12/29/99 23:20	WR	142153
Toluene	ND		1	1		12/29/99 23:20	WR	142153
m,p-Xylene	ND		1	1		12/29/99 23:20	WR	142153
o-Xylene	ND		1	1		12/29/99 23:20	WR	142153
Xylenes,Total	ND		1	1		12/29/99 23:20	WR	142153
Surr: 1,4-Difluorobenzene	90	%	72-137	1		12/29/99 23:20	WR	142153
Surr: 4-Bromofluorobenzene	100	%	48-156	1		12/29/99 23:20	WR	142153
VOLATILE ORGANICS METHOD 8260B			MCL	SW8260B		Units: ug/L		
Methyl tert-butyl ether	ND		5	1		12/30/99 15:36	HW	145175
Surr: 1,2-Dichloroethane-d4	100	%	80-120	1		12/30/99 15:36	HW	145175
Surr: 4-Bromofluorobenzene	100	%	86-115	1		12/30/99 15:36	HW	145175
Surr: Toluene-d8	110	%	88-110	1		12/30/99 15:36	HW	145175

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
6660 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW-7 **Collected:** 12/22/99 2:55:00 **SPL Sample ID:** 99120638-04

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	DIL Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRO		Units: ug/L		
Gasoline Range Organics	ND		50	1		12/29/99 23:44	WR	142269
Surr: 1,4-Difluorobenzene	96	%	62-144	1		12/29/99 23:44	WR	142269
Surr: 4-Bromofluorobenzene	99	%	44-153	1		12/29/99 23:44	WR	142269
PURGEABLE AROMATICS			MCL	SW8021B		Units: ug/L		
Benzene	ND		1	1		12/29/99 23:44	WR	142154
Ethylbenzene	ND		1	1		12/29/99 23:44	WR	142154
Toluene	ND		1	1		12/29/99 23:44	WR	142154
m,p-Xylene	ND		1	1		12/29/99 23:44	WR	142154
o-Xylene	ND		1	1		12/29/99 23:44	WR	142154
Xylenes,Total	ND		1	1		12/29/99 23:44	WR	142154
Surr: 1,4-Difluorobenzene	89	%	72-137	1		12/29/99 23:44	WR	142154
Surr: 4-Bromofluorobenzene	100	%	48-156	1		12/29/99 23:44	WR	142154
VOLATILE ORGANICS METHOD 8260B			MCL	SW8260B		Units: ug/L		
Methyl tert-butyl ether	ND		5	1		12/30/99 16:01	HW	145176
Surr: 1,2-Dichloroethane-d4	88	%	80-120	1		12/30/99 16:01	HW	145176
Surr: 4-Bromofluorobenzene	100	%	86-115	1		12/30/99 16:01	HW	145176
Surr: Toluene-d8	110	%	88-110	1		12/30/99 16:01	HW	145176

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
6880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW-8 **Collected:** 12/22/99 12:50:0 **SPL Sample ID:** 99120638-05

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq.#
GASOLINE RANGE ORGANICS				MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND		50	1		12/30/99 0:08	WR	142270
Surr: 1,4-Difluorobenzene	96	%	62-144	1		12/30/99 0:08	WR	142270
Surr: 4-Bromofluorobenzene	99	%	44-153	1		12/30/99 0:08	WR	142270
PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L		
Benzene	ND		1	1		12/30/99 0:08	WR	142155
Ethylbenzene	ND		1	1		12/30/99 0:08	WR	142155
Toluene	ND		1	1		12/30/99 0:08	WR	142155
m,p-Xylene	ND		1	1		12/30/99 0:08	WR	142155
o-Xylene	ND		1	1		12/30/99 0:08	WR	142155
Xylenes,Total	ND		1	1		12/30/99 0:08	WR	142155
Surr: 1,4-Difluorobenzene	89	%	72-137	1		12/30/99 0:08	WR	142155
Surr: 4-Bromofluorobenzene	100	%	48-156	1		12/30/99 0:08	WR	142155
VOLATILE ORGANICS METHOD 8260B				MCL	SW8260B	Units: ug/L		
Methyl tert-butyl ether	ND		5	1		12/30/99 16:26	HW	145177
Surr: 1,2-Dichloroethane-d4	90	%	80-120	1		12/30/99 16:26	HW	145177
Surr: 4-Bromofluorobenzene	96	%	86-115	1		12/30/99 16:26	HW	145177
Surr: Toluene-d8	110	%	88-110	1		12/30/99 16:26	HW	145177

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

1/14/00 4:02:13 PM

HOUSTON LABORATORY
9880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW-9 **Collected:** 12/22/99 1:55:00 **SPL Sample ID:** 99120638-06

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRO		Units: ug/L		
Gasoline Range Organics	7300		250	5		12/30/99 0:31	WR	142271
Surr: 1,4-Difluorobenzene	100	%	62-144	5		12/30/99 0:31	WR	142271
Surr: 4-Bromofluorobenzene	100	%	44-153	5		12/30/99 0:31	WR	142271
MERCURY, DISSOLVED			MCL	SW7470A		Units: mg/L		
Mercury	ND		0.0002	1		01/11/00 16:13	AG	152148

Run ID/Seq #: HGL_000111B-152148

Prep Method	Prep Date	Prep Initials
SW7470A	01/11/2000 11:30	AG

METALS BY METHOD 6010B, DISSOLVED			MCL	SW6010B		Units: mg/L		
Antimony	0.0538		0.005	1		01/10/00 13:42	EG	150107
Arsenic	0.314		0.005	1		01/10/00 13:42	EG	150107
Lead	ND		0.005	1		01/10/00 13:42	EG	150107
Selenium	0.0118		0.005	1		01/10/00 13:42	EG	150107
Thallium	ND		0.005	1		01/10/00 13:42	EG	150107
Barium	1.1		0.005	1		01/07/00 10:57	PB	149113
Beryllium	ND		0.003	1		01/07/00 10:57	PB	149113
Cadmium	ND		0.005	1		01/07/00 10:57	PB	149113
Chromium	ND		0.01	1		01/07/00 10:57	PB	149113
Cobalt	ND		0.01	1		01/07/00 10:57	PB	149113
Copper	ND		0.01	1		01/07/00 10:57	PB	149113
Molybdenum	ND		0.02	1		01/07/00 10:57	PB	149113
Nickel	ND		0.02	1		01/07/00 10:57	PB	149113
Silver	ND		0.01	1		01/07/00 10:57	PB	149113
Vanadium	ND		0.005	1		01/07/00 10:57	PB	149113
Zinc	0.266		0.02	1		01/07/00 10:57	PB	149113

Run ID/Seq #: TJA_000107A-149113

Prep Method	Prep Date	Prep Initials
SW3005	01/06/2000 15:15	AA

Run ID/Seq #: TJAT_000110A-150107

Prep Method	Prep Date	Prep Initials
SW3005	01/06/2000 15:15	AA

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

1/14/00 4:02:13 PM

HOUSTON LABORATORY
9990 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW-9 **Collected: 12/22/99 1:55:00** **SPL Sample ID: 99120638-06**

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	860		5	5		12/30/99 0:31	WR	142156
Ethylbenzene	ND		5	5		12/30/99 0:31	WR	142156
Toluene	380		5	5		12/30/99 0:31	WR	142156
m,p-Xylene	1300		5	5		12/30/99 0:31	WR	142156
o-Xylene	890		5	5		12/30/99 0:31	WR	142156
Xylenes,Total	2190		5	5		12/30/99 0:31	WR	142156
Surr: 1,4-Difluorobenzene	120	%	72-137	5		12/30/99 0:31	WR	142156
Surr: 4-Bromofluorobenzene	110	%	48-156	5		12/30/99 0:31	WR	142156
SEMIVOLATILE HYDROCARBONS			**MCL**	**SW8015B**		**Units: mg/L**		
Ethylene Glycol	ND		10	2		01/10/00 14:56	DR	150467
Surr: Triethylene Glycol	100	%	50-150	2		01/10/00 14:56	DR	150467

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
9880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW-9 **Collected:** 12/22/99 1:55:00 **SPL Sample ID:** 99120638-06

Site: 7-3399,19900912

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C		**MCL**	**SW8270C**		**Units: ug/L**		
1,2,4-Trichlorobenzene	ND	5	1		12/30/99 12:00	P_C	144537
1,2-Dichlorobenzene	ND	5	1		12/30/99 12:00	P_C	144537
1,2-Diphenylhydrazine	ND	5	1		12/30/99 12:00	P_C	144537
1,3-Dichlorobenzene	ND	5	1		12/30/99 12:00	P_C	144537
1,4-Dichlorobenzene	ND	5	1		12/30/99 12:00	P_C	144537
2,4,5-Trichlorophenol	ND	10	1		12/30/99 12:00	P_C	144537
2,4,6-Trichlorophenol	ND	5	1		12/30/99 12:00	P_C	144537
2,4-Dichlorophenol	ND	5	1		12/30/99 12:00	P_C	144537
2,4-Dimethylphenol	190	25	5		01/03/00 11:06	P_C	144566
2,4-Dinitrophenol	ND	25	1		12/30/99 12:00	P_C	144537
2,4-Dinitrotoluene	ND	5	1		12/30/99 12:00	P_C	144537
2,6-Dinitrotoluene	ND	5	1		12/30/99 12:00	P_C	144537
2-Chloronaphthalene	ND	5	1		12/30/99 12:00	P_C	144537
2-Chlorophenol	ND	5	1		12/30/99 12:00	P_C	144537
2-Methylnaphthalene	ND	5	1		12/30/99 12:00	P_C	144537
2-Methylphenol	11	5	1		12/30/99 12:00	P_C	144537
2-Nitroaniline	ND	25	1		12/30/99 12:00	P_C	144537
2-Nitrophenol	ND	5	1		12/30/99 12:00	P_C	144537
3 & 4-Methylphenol	ND	5	1		12/30/99 12:00	P_C	144537
3,3'-Dichlorobenzidine	ND	10	1		12/30/99 12:00	P_C	144537
3-Nitroaniline	ND	25	1		12/30/99 12:00	P_C	144537
4,6-Dinitro-2-methylphenol	ND	25	1		12/30/99 12:00	P_C	144537
4-Bromophenyl phenyl ether	ND	5	1		12/30/99 12:00	P_C	144537
4-Chloro-3-methylphenol	ND	5	1		12/30/99 12:00	P_C	144537
4-Chloroaniline	ND	5	1		12/30/99 12:00	P_C	144537
4-Chlorophenyl phenyl ether	ND	5	1		12/30/99 12:00	P_C	144537
4-Nitroaniline	ND	25	1		12/30/99 12:00	P_C	144537
4-Nitrophenol	ND	25	1		12/30/99 12:00	P_C	144537
Acenaphthene	ND	5	1		12/30/99 12:00	P_C	144537
Acenaphthylene	ND	5	1		12/30/99 12:00	P_C	144537
Aniline	ND	5	1		12/30/99 12:00	P_C	144537
Anthracene	ND	5	1		12/30/99 12:00	P_C	144537
Benz(a)anthracene	ND	5	1		12/30/99 12:00	P_C	144537
Benzo(a)pyrene	ND	5	1		12/30/99 12:00	P_C	144537
Benzo(b)fluoranthene	ND	5	1		12/30/99 12:00	P_C	144537
Benzo(g,h,i)perylene	ND	5	1		12/30/99 12:00	P_C	144537
Benzo(k)fluoranthene	ND	5	1		12/30/99 12:00	P_C	144537
Benzoic acid	ND	25	1		12/30/99 12:00	P_C	144537
Benzyl alcohol	ND	5	1		12/30/99 12:00	P_C	144537

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW-9 **Collected:** 12/22/99 1:55:00 **SPL Sample ID:** 99120638-06

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Bis(2-chloroethoxy)methane	ND		5	1		12/30/99 12:00	P_C	144537
Bis(2-chloroethyl)ether	ND		5	1		12/30/99 12:00	P_C	144537
Bis(2-chloroisopropyl)ether	ND		5	1		12/30/99 12:00	P_C	144537
Bis(2-ethylhexyl)phthalate	44		5	1		12/30/99 12:00	P_C	144537
Butyl benzyl phthalate	ND		5	1		12/30/99 12:00	P_C	144537
Carbazole	ND		5	1		12/30/99 12:00	P_C	144537
Chrysene	ND		5	1		12/30/99 12:00	P_C	144537
Di-n-butyl phthalate	ND		5	1		12/30/99 12:00	P_C	144537
Di-n-octyl phthalate	ND		5	1		12/30/99 12:00	P_C	144537
Dibenz(a,h)anthracene	ND		5	1		12/30/99 12:00	P_C	144537
Dibenzofuran	ND		5	1		12/30/99 12:00	P_C	144537
Diethyl phthalate	ND		5	1		12/30/99 12:00	P_C	144537
Dimethyl phthalate	ND		5	1		12/30/99 12:00	P_C	144537
Fluoranthene	ND		5	1		12/30/99 12:00	P_C	144537
Fluorene	ND		5	1		12/30/99 12:00	P_C	144537
Hexachlorobenzene	ND		5	1		12/30/99 12:00	P_C	144537
Hexachlorobutadiene	ND		5	1		12/30/99 12:00	P_C	144537
Hexachlorocyclopentadiene	ND		5	1		12/30/99 12:00	P_C	144537
Hexachloroethane	ND		5	1		12/30/99 12:00	P_C	144537
Indeno(1,2,3-cd)pyrene	ND		5	1		12/30/99 12:00	P_C	144537
Isophorone	ND		5	1		12/30/99 12:00	P_C	144537
N-Nitrosodi-n-propylamine	ND		5	1		12/30/99 12:00	P_C	144537
N-Nitrosodiphenylamine	ND		5	1		12/30/99 12:00	P_C	144537
Naphthalene	ND		5	1		12/30/99 12:00	P_C	144537
Nitrobenzene	ND		5	1		12/30/99 12:00	P_C	144537
Pentachlorophenol	ND		25	1		12/30/99 12:00	P_C	144537
Phenanthrene	ND		5	1		12/30/99 12:00	P_C	144537
Phenol	23		5	1		12/30/99 12:00	P_C	144537
Pyrene	ND		5	1		12/30/99 12:00	P_C	144537
Pyridine	ND		5	1		12/30/99 12:00	P_C	144537
Surr: 2,4,6-Tribromophenol	96	%	10-123	1		12/30/99 12:00	P_C	144537
Surr: 2,4,6-Tribromophenol	76	%	10-123	5		01/03/00 11:08	P_C	144566
Surr: 2-Fluorobiphenyl	70	%	43-116	5		01/03/00 11:08	P_C	144566
Surr: 2-Fluorobiphenyl	74	%	43-116	1		12/30/99 12:00	P_C	144537
Surr: 2-Fluorophenol	35	%	21-110	1		12/30/99 12:00	P_C	144537
Surr: 2-Fluorophenol	31	%	21-110	5		01/03/00 11:08	P_C	144566
Surr: Nitrobenzene-d5	66	%	35-114	1		12/30/99 12:00	P_C	144537
Surr: Nitrobenzene-d5	52	%	35-114	5		01/03/00 11:08	P_C	144566
Surr: Phenol-d5	21	%	10-110	1		12/30/99 12:00	P_C	144537
Surr: Phenol-d5	17	%	10-110	5		01/03/00 11:08	P_C	144566

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1/14/00 4:02:16 PM

HOUSTON LABORATORY
9880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW-9 **Collected: 12/22/99 1:55:00** **SPL Sample ID: 99120638-06**

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Surr: Terphenyl-d14	76	%	33-141	5		01/03/00 11:08	P_C	144566
Surr: Terphenyl-d14	80	%	33-141	1		12/30/99 12:00	P_C	144537

Run ID/Seq #: H_991230A-144537

Prep Method	Prep Date	Prep Initials
SW3510B	12/29/1999 10:18	WV

Run ID/Seq #: H_000103A-144586

Prep Method	Prep Date	Prep Initials
SW3510B	12/29/1999 10:18	WV

SIMULATED DISTILLATION			MCL	SW8015B	Units: mg/L		
C10-C11	0.45	0.10		1	01/05/00 14:42	RR	146324
C12-C13	0.33	0.10		1	01/05/00 14:42	RR	146324
C14-C15	ND	0.10		1	01/05/00 14:42	RR	146324
C16-C17	ND	0.10		1	01/05/00 14:42	RR	146324
C18-C19	ND	0.10		1	01/05/00 14:42	RR	146324
C20-C23	ND	0.10		1	01/05/00 14:42	RR	146324
C24-C27	ND	0.10		1	01/05/00 14:42	RR	146324
C28-C31	ND	0.10		1	01/05/00 14:42	RR	146324
C32-C35	ND	0.10		1	01/05/00 14:42	RR	146324
C36-C39	ND	0.10		1	01/05/00 14:42	RR	146324
C40-C43	ND	0.10		1	01/05/00 14:42	RR	146324
TOTAL	0.86	0.10		1	01/05/00 14:42	RR	146324

Run ID/Seq #: HP_V_000105C-146324

Prep Method	Prep Date	Prep Initials
SW3510B	01/03/2000 12:10	KL

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1/14/00 4:02:16 PM

HOUSTON LABORATORY
6990 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW-9 **Collected:** 12/22/99 1:55:00 **SPL Sample ID:** 99120638-06

Site: 7-3399,19900912

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS METHOD 8260B		**MCL**	**SW8260B**		**Units: ug/L**		
1,1,1,2-Tetrachloroethane	ND	5	1		12/30/99 16:51	HW	145178
1,1,1-Trichloroethane	ND	5	1		12/30/99 16:51	HW	145178
1,1,2,2-Tetrachloroethane	ND	5	1		12/30/99 16:51	HW	145178
1,1,2-Trichloroethane	ND	5	1		12/30/99 16:51	HW	145178
1,1-Dichloroethane	ND	5	1		12/30/99 16:51	HW	145178
1,1-Dichloroethene	ND	5	1		12/30/99 16:51	HW	145178
1,1-Dichloropropene	ND	5	1		12/30/99 16:51	HW	145178
1,2,3-Trichlorobenzene	ND	5	1		12/30/99 16:51	HW	145178
1,2,3-Trichloropropane	ND	5	1		12/30/99 16:51	HW	145178
1,2,4-Trichlorobenzene	ND	5	1		12/30/99 16:51	HW	145178
1,2,4-Trimethylbenzene	110	5	1		12/30/99 16:51	HW	145178
1,2-Dibromo-3-chloropropane	ND	5	1		12/30/99 16:51	HW	145178
1,2-Dibromoethane	ND	5	1		12/30/99 16:51	HW	145178
1,2-Dichlorobenzene	ND	5	1		12/30/99 16:51	HW	145178
1,2-Dichloroethane	ND	5	1		12/30/99 16:51	HW	145178
1,2-Dichloropropane	ND	5	1		12/30/99 16:51	HW	145178
1,3,5-Trimethylbenzene	42	5	1		12/30/99 16:51	HW	145178
1,3-Dichlorobenzene	ND	5	1		12/30/99 16:51	HW	145178
1,3-Dichloropropane	ND	5	1		12/30/99 16:51	HW	145178
1,4-Dichlorobenzene	ND	5	1		12/30/99 16:51	HW	145178
2,2-Dichloropropane	ND	5	1		12/30/99 16:51	HW	145178
2-Butanone	ND	20	1		12/30/99 16:51	HW	145178
2-Chloroethyl vinyl ether	ND	10	1		12/30/99 16:51	HW	145178
2-Chlorotoluene	ND	5	1		12/30/99 16:51	HW	145178
2-Hexanone	ND	10	1		12/30/99 16:51	HW	145178
4-Chlorotoluene	ND	5	1		12/30/99 16:51	HW	145178
4-Isopropyltoluene	ND	5	1		12/30/99 16:51	HW	145178
4-Methyl-2-pentanone	ND	10	1		12/30/99 16:51	HW	145178
Acetone	ND	100	1		12/30/99 16:51	HW	145178
Acrylonitrile	ND	50	1		12/30/99 16:51	HW	145178
Benzene	870	120	25		12/31/99 0:22	HW	145197
Bromobenzene	ND	5	1		12/30/99 16:51	HW	145178
Bromochloromethane	ND	5	1		12/30/99 16:51	HW	145178
Bromodichloromethane	ND	5	1		12/30/99 16:51	HW	145178
Bromoform	ND	5	1		12/30/99 16:51	HW	145178
Bromomethane	ND	10	1		12/30/99 16:51	HW	145178
Carbon disulfide	ND	5	1		12/30/99 16:51	HW	145178
Carbon tetrachloride	ND	5	1		12/30/99 16:51	HW	145178
Chlorobenzene	ND	5	1		12/30/99 16:51	HW	145178

Qualifiers:

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1/14/00 4:02:17 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW-9 **Collected:** 12/22/99 1:55:00 **SPL Sample ID:** 99120638-06

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Chloroethane	ND		10	1		12/30/99 16:51	HW	145178
Chloroform	ND		5	1		12/30/99 16:51	HW	145178
Chloromethane	ND		10	1		12/30/99 16:51	HW	145178
cis-1,3-Dichloropropene	ND		5	1		12/30/99 16:51	HW	145178
Dibromochloromethane	ND		5	1		12/30/99 16:51	HW	145178
Dibromomethane	ND		5	1		12/30/99 16:51	HW	145178
Dichlorodifluoromethane	ND		10	1		12/30/99 16:51	HW	145178
Ethylbenzene	ND		5	1		12/30/99 16:51	HW	145178
Hexachlorobutadiene	ND		5	1		12/30/99 16:51	HW	145178
Isopropylbenzene	ND		5	1		12/30/99 16:51	HW	145178
Methyl tert-butyl ether	4300		120	25		12/31/99 0:22	HW	145197
Methylene chloride	ND		5	1		12/30/99 16:51	HW	145178
n-Butylbenzene	ND		5	1		12/30/99 16:51	HW	145178
n-Propylbenzene	ND		5	1		12/30/99 16:51	HW	145178
Naphthalene	8		5	1		12/30/99 16:51	HW	145178
sec-Butylbenzene	ND		5	1		12/30/99 16:51	HW	145178
Styrene	ND		5	1		12/30/99 16:51	HW	145178
tert-Butylbenzene	ND		5	1		12/30/99 16:51	HW	145178
Tetrachloroethene	ND		5	1		12/30/99 16:51	HW	145178
Toluene	380		120	25		12/31/99 0:22	HW	145197
trans-1,3-Dichloropropene	ND		5	1		12/30/99 16:51	HW	145178
Trichloroethene	ND		5	1		12/30/99 16:51	HW	145178
Trichlorofluoromethane	ND		5	1		12/30/99 16:51	HW	145178
Vinyl acetate	ND		10	1		12/30/99 16:51	HW	145178
Vinyl chloride	ND		10	1		12/30/99 16:51	HW	145178
cis-1,2-Dichloroethene	ND		5	1		12/30/99 16:51	HW	145178
m,p-Xylene	1300		120	25		12/31/99 0:22	HW	145197
o-Xylene	870		120	25		12/31/99 0:22	HW	145197
trans-1,2-Dichloroethene	ND		5	1		12/30/99 16:51	HW	145178
1,2-Dichloroethene (total)	ND		5	1		12/30/99 16:51	HW	145178
Xylenes,Total	2170		120	25		12/31/99 0:22	HW	145197
Surr: 1,2-Dichloroethane-d4	100	%	80-120	1		12/30/99 16:51	HW	145178
Surr: 1,2-Dichloroethane-d4	88	%	80-120	25		12/31/99 0:22	HW	145197
Surr: 4-Bromofluorobenzene	100	%	86-115	1		12/30/99 16:51	HW	145178
Surr: 4-Bromofluorobenzene	96	%	86-115	25		12/31/99 0:22	HW	145197
Surr: Toluene-d8	100	%	88-110	25		12/31/99 0:22	HW	145197
Surr: Toluene-d8	110	%	88-110	1		12/30/99 16:51	HW	145178

Qualifiers:

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>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

1/14/00 4:02:17 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW-10 **Collected:** 12/22/99 2:32:00 **SPL Sample ID:** 99120638-07

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRD		Units: ug/L		
Gasoline Range Organics	140		50	1		12/30/99 0:55	WR	142272
Surr: 1,4-Difluorobenzene	97	%	62-144	1		12/30/99 0:55	WR	142272
Surr: 4-Bromofluorobenzene	130	%	44-153	1		12/30/99 0:55	WR	142272
PURGEABLE AROMATICS			MCL	SW8021B		Units: ug/L		
Benzene	9.5		1	1		12/30/99 0:55	WR	142157
Ethylbenzene	3.9		1	1		12/30/99 0:55	WR	142157
Toluene	5.3		1	1		12/30/99 0:55	WR	142157
m,p-Xylene	18		1	1		12/30/99 0:55	WR	142157
o-Xylene	7.1		1	1		12/30/99 0:55	WR	142157
Xylenes,Total	25.1		1	1		12/30/99 0:55	WR	142157
Surr: 1,4-Difluorobenzene	90	%	72-137	1		12/30/99 0:55	WR	142157
Surr: 4-Bromofluorobenzene	110	%	48-156	1		12/30/99 0:55	WR	142157
VOLATILE ORGANICS METHOD 8260B			MCL	SW8260B		Units: ug/L		
Methyl tert-butyl ether	ND		5	1		12/30/99 17:16	HW	145179
Surr: 1,2-Dichloroethane-d4	100	%	80-120	1		12/30/99 17:16	HW	145179
Surr: 4-Bromofluorobenzene	98	%	86-115	1		12/30/99 17:16	HW	145179
Surr: Toluene-d8	110	%	88-110	1		12/30/99 17:16	HW	145179

Qualifiers:

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1/14/00 4:02:18 PM

HOUSTON LABORATORY
6990 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: MW-11 **Collected: 12/22/99 2:57:00** **SPL Sample ID: 99120638-08**

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRO		Units: ug/L		
Gasoline Range Organics	ND		50	1		12/30/99 1:19	WR	142273
Surr: 1,4-Difluorobenzene	96	%	62-144	1		12/30/99 1:19	WR	142273
Surr: 4-Bromofluorobenzene	100	%	44-153	1		12/30/99 1:19	WR	142273
PURGEABLE AROMATICS			MCL	SW8021B		Units: ug/L		
Benzene	ND		1	1		12/30/99 1:19	WR	142220
Ethylbenzene	ND		1	1		12/30/99 1:19	WR	142220
Toluene	ND		1	1		12/30/99 1:19	WR	142220
m,p-Xylene	ND		1	1		12/30/99 1:19	WR	142220
o-Xylene	ND		1	1		12/30/99 1:19	WR	142220
Xylenes,Total	ND		1	1		12/30/99 1:19	WR	142220
Surr: 1,4-Difluorobenzene	90	%	72-137	1		12/30/99 1:19	WR	142220
Surr: 4-Bromofluorobenzene	100	%	48-156	1		12/30/99 1:19	WR	142220
VOLATILE ORGANICS METHOD 8260B			MCL	SW8260B		Units: ug/L		
Methyl tert-butyl ether	ND		5	1		12/30/99 17:42	HW	145180
Surr: 1,2-Dichloroethane-d4	110	%	80-120	1		12/30/99 17:42	HW	145180
Surr: 4-Bromofluorobenzene	96	%	86-115	1		12/30/99 17:42	HW	145180
Surr: Toluene-d8	110	%	88-110	1		12/30/99 17:42	HW	145180

Qualifiers:

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* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: VR1 **Collected:** 12/22/99 3:25:00 **SPL Sample ID:** 99120638-09

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq.#
GASOLINE RANGE ORGANICS			MCL	CA_GRO		Units: ug/L		
Gasoline Range Organics	ND		50	1		12/30/99 1:43	WR	142274
Surr: 1,4-Difluorobenzene	97	%	62-144	1		12/30/99 1:43	WR	142274
Surr: 4-Bromofluorobenzene	100	%	44-153	1		12/30/99 1:43	WR	142274
PURGEABLE AROMATICS			MCL	SW8021B		Units: ug/L		
Benzene	ND		1	1		12/30/99 1:43	WR	142160
Ethylbenzene	ND		1	1		12/30/99 1:43	WR	142160
Toluene	ND		1	1		12/30/99 1:43	WR	142160
m,p-Xylene	ND		1	1		12/30/99 1:43	WR	142160
o-Xylene	ND		1	1		12/30/99 1:43	WR	142160
Xylenes,Total	ND		1	1		12/30/99 1:43	WR	142160
Surr: 1,4-Difluorobenzene	89	%	72-137	1		12/30/99 1:43	WR	142160
Surr: 4-Bromofluorobenzene	100	%	46-156	1		12/30/99 1:43	WR	142160
SEMIVOLATILE HYDROCARBONS			MCL	SW8015B		Units: mg/L		
Ethylene Glycol	ND		10	2		01/10/00 14:36	DR	150466
Surr: Triethylene Glycol	79	%	50-150	2		01/10/00 14:36	DR	150466

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1/14/00 4:02:20 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: VR1 **Collected:** 12/22/99 3:25:00 **SPL Sample ID:** 99120638-09

Site: 7-3399,19900912

Analyses/Method	Result	Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			**MCL**	**SW8270C**		**Units: ug/L**		
1,2,4-Trichlorobenzene	ND	5		1		12/30/99 10:56	P_C	144535
1,2-Dichlorobenzene	ND	5		1		12/30/99 10:56	P_C	144535
1,2-Diphenylhydrazine	ND	5		1		12/30/99 10:56	P_C	144535
1,3-Dichlorobenzene	ND	5		1		12/30/99 10:56	P_C	144535
1,4-Dichlorobenzene	ND	5		1		12/30/99 10:56	P_C	144535
2,4,5-Trichlorophenol	ND	10		1		12/30/99 10:56	P_C	144535
2,4,6-Trichlorophenol	ND	5		1		12/30/99 10:56	P_C	144535
2,4-Dichlorophenol	ND	5		1		12/30/99 10:56	P_C	144535
2,4-Dimethylphenol	ND	5		1		12/30/99 10:56	P_C	144535
2,4-Dinitrophenol	ND	25		1		12/30/99 10:56	P_C	144535
2,4-Dinitrotoluene	ND	5		1		12/30/99 10:56	P_C	144535
2,6-Dinitrotoluene	ND	5		1		12/30/99 10:56	P_C	144535
2-Chloronaphthalene	ND	5		1		12/30/99 10:56	P_C	144535
2-Chlorophenol	ND	5		1		12/30/99 10:56	P_C	144535
2-Methylnaphthalene	ND	5		1		12/30/99 10:56	P_C	144535
2-Methylphenol	ND	5		1		12/30/99 10:56	P_C	144535
2-Nitroaniline	ND	25		1		12/30/99 10:56	P_C	144535
2-Nitrophenol	ND	5		1		12/30/99 10:56	P_C	144535
3 & 4-Methylphenol	ND	5		1		12/30/99 10:56	P_C	144535
3,3'-Dichlorobenzidine	ND	10		1		12/30/99 10:56	P_C	144535
3-Nitroaniline	ND	25		1		12/30/99 10:56	P_C	144535
4,6-Dinitro-2-methylphenol	ND	25		1		12/30/99 10:56	P_C	144535
4-Bromophenyl phenyl ether	ND	5		1		12/30/99 10:56	P_C	144535
4-Chloro-3-methylphenol	ND	5		1		12/30/99 10:56	P_C	144535
4-Chloroaniline	ND	5		1		12/30/99 10:56	P_C	144535
4-Chlorophenyl phenyl ether	ND	5		1		12/30/99 10:56	P_C	144535
4-Nitroaniline	ND	25		1		12/30/99 10:56	P_C	144535
4-Nitrophenol	ND	25		1		12/30/99 10:56	P_C	144535
Acenaphthene	ND	5		1		12/30/99 10:56	P_C	144535
Acenaphthylene	ND	5		1		12/30/99 10:56	P_C	144535
Aniline	ND	5		1		12/30/99 10:56	P_C	144535
Anthracene	ND	5		1		12/30/99 10:56	P_C	144535
Benz(a)anthracene	ND	5		1		12/30/99 10:56	P_C	144535
Benzo(a)pyrene	ND	5		1		12/30/99 10:56	P_C	144535
Benzo(b)fluoranthene	ND	5		1		12/30/99 10:56	P_C	144535
Benzo(g,h,i)perylene	ND	5		1		12/30/99 10:56	P_C	144535
Benzo(k)fluoranthene	ND	5		1		12/30/99 10:56	P_C	144535
Benzoic acid	ND	25		1		12/30/99 10:56	P_C	144535
Benzyl alcohol	ND	5		1		12/30/99 10:56	P_C	144535

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1/14/00 4:02:20 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: VR1 **Collected:** 12/22/99 3:25:00 **SPL Sample ID:** 99120638-09

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Bis(2-chloroethoxy)methane	ND		5	1		12/30/99 10:56	P_C	144535
Bis(2-chloroethyl)ether	ND		5	1		12/30/99 10:56	P_C	144535
Bis(2-chloroisopropyl)ether	ND		5	1		12/30/99 10:56	P_C	144535
Bis(2-ethylhexyl)phthalate	ND		5	1		12/30/99 10:56	P_C	144535
Butyl benzyl phthalate	ND		5	1		12/30/99 10:56	P_C	144535
Carbazole	ND		5	1		12/30/99 10:56	P_C	144535
Chrysene	ND		5	1		12/30/99 10:56	P_C	144535
Di-n-butyl phthalate	ND		5	1		12/30/99 10:56	P_C	144535
Di-n-octyl phthalate	ND		5	1		12/30/99 10:56	P_C	144535
Dibenz(a,h)anthracene	ND		5	1		12/30/99 10:56	P_C	144535
Dibenzofuran	ND		5	1		12/30/99 10:56	P_C	144535
Diethyl phthalate	ND		5	1		12/30/99 10:56	P_C	144535
Dimethyl phthalate	ND		5	1		12/30/99 10:56	P_C	144535
Fluoranthene	ND		5	1		12/30/99 10:56	P_C	144535
Fluorene	ND		5	1		12/30/99 10:56	P_C	144535
Hexachlorobenzene	ND		5	1		12/30/99 10:56	P_C	144535
Hexachlorobutadiene	ND		5	1		12/30/99 10:56	P_C	144535
Hexachlorocyclopentadiene	ND		5	1		12/30/99 10:56	P_C	144535
Hexachloroethane	ND		5	1		12/30/99 10:56	P_C	144535
Indeno(1,2,3-cd)pyrene	ND		5	1		12/30/99 10:56	P_C	144535
Isophorone	ND		5	1		12/30/99 10:56	P_C	144535
N-Nitrosodi-n-propylamine	ND		5	1		12/30/99 10:56	P_C	144535
N-Nitrosodiphenylamine	ND		5	1		12/30/99 10:56	P_C	144535
Naphthalene	ND		5	1		12/30/99 10:56	P_C	144535
Nitrobenzene	ND		5	1		12/30/99 10:56	P_C	144535
Pentachlorophenol	ND		25	1		12/30/99 10:56	P_C	144535
Phenanthrene	ND		5	1		12/30/99 10:56	P_C	144535
Phenol	ND		5	1		12/30/99 10:56	P_C	144535
Pyrene	ND		5	1		12/30/99 10:56	P_C	144535
Pyridine	ND		5	1		12/30/99 10:56	P_C	144535
Surr: 2,4,6-Tribromophenol	91	%	10-123	1		12/30/99 10:56	P_C	144535
Surr: 2-Fluorobiphenyl	80	%	43-116	1		12/30/99 10:56	P_C	144535
Surr: 2-Fluorophenol	35	%	21-110	1		12/30/99 10:56	P_C	144535
Surr: Nitrobenzene-d5	74	%	35-114	1		12/30/99 10:56	P_C	144535
Surr: Phenol-d5	21	%	10-110	1		12/30/99 10:56	P_C	144535
Surr: Terphenyl-d14	78	%	33-141	1		12/30/99 10:56	P_C	144535

Run ID/Seq #: H_991230A-144638

Prep Method	Prep Date	Prep Initials
SW3510B	12/29/1999 10:18	WV

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1/14/00 4:02:21 PM

HOUSTON LABORATORY
9880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: VR1 **Collected:** 12/22/99 3:25:00 **SPL Sample ID:** 99120638-09

Site: 7-3399,19900912

Analyses/Method	Result		Rep.Limit		Dil Factor	QUAL	Date Analyzed	Analyst	Seq. #
SIMULATED DISTILLATION				MCL	SW8015B		Units: mg/L		
C10-C11	ND		0.10		1		01/05/00 15:20	RR	146325
C12-C13	ND		0.10		1		01/05/00 15:20	RR	146325
C14-C15	ND		0.10		1		01/05/00 15:20	RR	146325
C16-C17	ND		0.10		1		01/05/00 15:20	RR	146325
C18-C19	ND		0.10		1		01/05/00 15:20	RR	146325
C20-C23	ND		0.10		1		01/05/00 15:20	RR	146325
C24-C27	ND		0.10		1		01/05/00 15:20	RR	146325
C28-C31	ND		0.10		1		01/05/00 15:20	RR	146325
C32-C35	ND		0.10		1		01/05/00 15:20	RR	146325
C36-C39	ND		0.10		1		01/05/00 15:20	RR	146325
C40-C43	ND		0.10		1		01/05/00 15:20	RR	146325
TOTAL	ND		0.10		1		01/05/00 15:20	RR	146325

Run ID/Seq #: HP_V_000105C-146325

Prep Method	Prep Date	Prep Initials
SW3510B	01/03/2000 12:10	KL

VOLATILE ORGANICS METHOD 8260B				MCL	SW8260B		Units: ug/L		
Methyl tert-butyl ether	10		5		1		12/30/99 18:07	HW	145181
Surr: 1,2-Dichloroethane-d4	88	%	80-120		1		12/30/99 18:07	HW	145181
Surr: 4-Bromofluorobenzene	96	%	86-115		1		12/30/99 18:07	HW	145181
Surr: Toluene-d8	110	%	88-110		1		12/30/99 18:07	HW	145181

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1/14/00 4:02:21 PM

EXXON COMPANY, USA. 99120638

CHAIN OF CUSTODY RECORD NO. ______ Page ______ of ______

Exxon Engineer: Darin Rouse Phone: (925) 246-8768
Consultant Co. Name: DELTA Contact: Jim Brownell
Address: 3164 Gold Camp Dr. Phone: (916) 638-2765
Rancho Cordova, CA Fax: (916) 638-8385

RAS #: 7-3399 Facility/State ID # (TN Only):
AFE # (Terminal Only): Consultant Project #: D049-836
Location: 2991 Hopyard Rd. (City): Pleasanton (State): CA
☐ EE ☐ C & M ☐ SDT
Consultant Work Release #: 19900912 BTS# 991222-JI
Sampled By: Blaine Tech Services, Inc.

ANALYSIS REQUEST: (CHECK APPROPRIATE BOX) — OTHER

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX H_2O	MATRIX SOIL	MATRIX AIR	OTHER	PRESERVATIVE	NO. OF CONTAINERS	CONTAINER SIZE	BTEX 8020 ☒ WITH MTBE ☐ 602 ☐	PURGEABLE HALOCARBON 8010 ☐ 601 ☐	~~TPHIR 418.1~~ Fuel Finger print by 8015M	O & G ☐ IR 413.1 ☐ GRAV. 413.2 ☐	TPH / GC 8015 GRO ☒ 8015 DRO ☐	VOL 8240 ☐ 624 ☐	SEMI-VOL 8270 ☒ 625 ☐	PNA/PAH 8100 ☐ 8310 ☐ 8270 ☐	PCB / PEST 8080 ☐ PCB ONLY ☐	TCLP FULL☐ VOA☐ SEMI-VOA☐ PEST☐ HERB☐	METALS, TOTAL ☐ METALS, TCLP ☐	LEAD, TOTAL 239.1 ☐ 7421 ☐ LEAD, TCLP ☐	~~TCXTCH-B~~ MTBE by 8260	REACTIVITY ☐ CORROSIVITY ☐ IGNITABILITY ☐	~~STATE~~ VOC's w/ MTBE by 8260	Dissolved CAM 17 Metals	Ethylene Glycol	
MW-1	12-22	1330			X				HCl, ~~[illegible]~~	6		X				X								X		CA			
~~MW-?~~																													
MW-5S		1155								6		X				X								X					
MW-5D		1140								6		X				X								X					
MW-7		1455								6		X				X								X					
MW-8		1250								6		X				X								X					
MW-9		1355								12		X		X		X		X						X		X	X	X	
MW-10		1432								6		X				X								X					
MW-11		1457								6		X				X								X					
VR1	↓	1525			↓				↓	11		X		X		X		X						X		X		X	

RUSH DS

TAT
24 HR. ___ * 72 HR. ___ *
48 HR. ___ * 96 HR. ___ *
Standard X * Contact US Prior
Other ___ to Sending Sample

EXXON UST CONTRACT NO. S02317M01

SPECIAL DETECTION LIMITS (Specify) 3

REMARKS: 8143729533 13

SPECIAL REPORTING REQUIREMENTS (Specify)
FAX ☐ ☒ FAX C-O-C W / REPORT

LAB USE ONLY LOT # Storage Location
WORK ORDER # 99120638 NW LAB WORK RELEASE #

QA/QC Level
Standard ☐ CLP ☐ Other ☐

CUSTODY RECORD

Relinquished By Sampler:	Date	Time	Received By:
Josh Kerns [signature]	12-22-99	1800	
Relinquished By Sampler:	Date	Time	Received By:
Relinquished By Sampler:	Date	Time	Received By Laboratory: [signature] 12/28/99
			Waybill #: Cooler Temp: 3C

SHIP SAMPLES BACK TO: SPL INCORPORATED, 8880 Interchange Drive, Houston, TX 77054 Ph: (713) 660-0901 Fax: (713) 660-8975 Ph: 1-800-969-6775

Dillard Trucking, Inc. dba

Dillard Environmental Services

P.O. Box 579 · Byron, CA 94514
Phone (925) 634-6850 – Fax (925) 634-0569
EPA #CAD981692809 · D.T.S.C. #1715 · CA LIC #624665-A HAZ

January 12, 2000

Delta Environmental

Attn: Ben Heningburg

RE: Exxon #7-3399/2991 Hopyard Road, Pleasanton, CA
Removed: 3.53 tons of bulk soil removed

Dear Mr. Ben Heningburg:

Please be advised that 3.53 tons of bulk soil from the above referenced site has been removed. The soil was transported for disposal to BFI on January 7, 2000.

Should you have any questions, please do not hesitate to call.

Sincerely,

Dillard Trucking, Inc. dba,
DILLARD ENVIRONMENTAL SERVICES

M.E. / Regan Cortez

Regan Cortez
Customer Service Representative

Rc:maf

cc:file