

3480 Buskirk Avenue
Pleasant Hill, CA 94523-4342
P.O. Box 8045
Walnut Creek, CA 94596-1220
(510) 937-9010
FAX (510) 937-9026

11-1564-04/1
HAZMAT
SEP 20 1994

November 10, 1994

Mr. Brian Cobb
E-Z Serve Management Company
2550 N. Loop West, Suite 600
Houston, Texas 77292

11-1564-04/1

Subject: Third Quarter Groundwater Monitoring Report
Former E-Z Serve Station #100877, 525 West A Street, Hayward, California

Dear Mr. Cobb:

Brown and Caldwell conducted the third quarter groundwater monitoring event at E-Z Serve Management Company's Former Station #100877, 525 West A Street, Hayward, California on September 20, 1994. The work performed at the subject site included collecting depth-to-groundwater measurements from 11 groundwater monitoring wells, purging and sampling 10 wells, and submitting the groundwater samples to SPL Inc., an analytical laboratory located in Houston, Texas and certified by the State of California Department of Toxic Substance Control for analysis of hazardous materials. Field work was performed following the procedures outlined in Attachment A.

Summary of Findings

Depth-to-water measurements were collected using an oil-water interface probe. Free product was identified in Well MW-1A, a petroleum sheen was identified in Well MW-3, and petroleum odor was identified in Wells MW-4 and MW-9. A minimum of three well volumes was purged from each of the monitoring wells prior to sampling. Samples were collected from each of the monitoring wells, transferred to the appropriate sampling vials, and submitted to SPL Inc. within 48 hours of collection, under appropriate chain of custody. Samples were submitted to the laboratory for analysis of total petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, and xylene isomers, following Environmental Protection Agency Methods 8015 modified and 8020. Field work was performed following the procedures outlined in Attachment A.

Field data collected during the sampling event indicate groundwater elevations have decreased relative to last quarter. The groundwater appears to flow in all directions, towards the center of the site under gradients ranging from approximately 0.003 to 0.03 feet per foot. A summary of the depth-to-water measurements, calculated groundwater elevations, and analytical results are included in Table 1. A groundwater contour map, identifying the primary

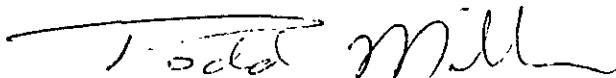
Mr. Brian Cobb
November 10, 1994
Page 2

groundwater flow direction on September 20, 1994 and the analytical results from each sample, is included as Figure 1. Analytical results, including a copy of the chain of custody form, are included in Attachment A.

If you have any question regarding the information presented herein, please contact one of us at your earliest convenience.

Sincerely

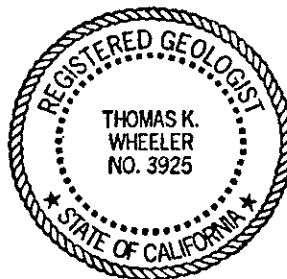
BROWN AND CALDWELL



Todd Miller
Project Manager



Thomas K. Wheeler
California Registered Geologist No. 3925.

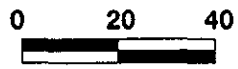


TM/TKW:

Attachments

c:\ezacerve\100877\qtr-rpt.ltr

Brown and Caldwell
Consultants



SCALE

1 inch = 40 feet

TPHg	-	7,500
B	-	2,200
T	-	97
E	-	400
X	-	1,200

MW8
(76.18)

TPHg	-	<100
B	-	<1
T	-	<1
E	-	<1
X	-	<1

4" Avenue

EXPLANATION

	LOCATION OF MONITORING WELLS INSTALLED BY OTHERS	TPHg
(67.00)	GROUNDWATER ELEVATION, SEPTEMBER 20, 1994	B
	GROUNDWATER FLOW DIRECTION	T
	GROUNDWATER SURFACE ELEVATION CONTOUR	E
		X

on Map

**Table 1. Summary of Groundwater Elevation Data and Analytical Laboratory Results for
Groundwater Samples Collected at Former E-Z Serve Station # 100877
525 West A Street, Hayward, California**

Well I.D.	Date Sampled	Well Elevation (feet)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (feet)	EPA Methods 8015 and 8020 Concentration ($\mu\text{g/L}$)				
						TPHg	Benzene	Toluene	Ethylbenzene	Xylenes
MW-1	5-Feb-92	96.73	20.82		75.91	46,000	76,000	23,000	2,400	6,500
	11-Sep-92		20.08		76.65	48,000	9,000	1,200	1,800	4,600
	22-Dec-92		19.79		76.94	84,000	22,000	1,600	4,800	17,000
	3-Mar-93		16.23		80.50	54,000	16,000	1,600	1,900	4,300
	23-Jun-93		16.86		79.87	30,000	18,000	1,100	1,400	3,700
	30-Sep-93		18.04		78.69	33,000	10,000	440	940	1,700
	6-Feb-94		18.15		78.58	64,000	18,000	1,600	4,700	12,000
	20-Sep-94		20.59		76.14	10,000	3,100	75	440	870
MW-1A	23-Jun-93	97.59	17.80	0.21	80.00					
	30-Sep-93			Not Recorded						
	6-Feb-94		18.89		78.70	8,900	1,700	42	1,000	400
	20-Sep-94		21.50		76.09					
MW-2	5-Feb-92	98.06	22.35		75.71	67,000	13,000	4,700	820	1,300
	11-Sep-92		21.67		76.39	57,000	9,000	1,400	1,200	8,400
	22-Dec-92		21.39		76.67	31,000	9,900	350	2,000	4,100
	3-Mar-93		17.75		80.31	17,000	5,100	1,300	720	1,900
	23-Jun-93		18.42		79.64	60,000	23,000	1,500	4,500	17,000
	30-Sep-93		19.63		78.43	38,000	12,000	780	1,500	6,500
	6-Feb-94		19.61		78.45	34,000	8,900	450	2,000	5,500
	20-Sep-94		22.17		75.89	19,000	4,500	300	1,200	4,000
MW-3	5-Feb-92	97.66	21.85		75.81	5,900	1,100	<1	<1	<1
	11-Sep-92		21.13		76.53	9,400	1,200	180	550	1,100
	22-Dec-92		20.88		76.78	12,000	2,800	190	850	1,600
	3-Mar-93		17.29		80.37	11,000	2,200	360	570	900
	23-Jun-93		17.88		79.78	33,000	12,000	2,700	1,300	3,500
	30-Sep-93		19.18		78.48	4,300	1,100	160	690	670
	6-Feb-94		19.21		78.45	20,000	4,800	430	1,500	2,900
	20-Sep-94		21.64		76.02	8,200	2,200	130	670	930

**Table 1. Summary of Groundwater Elevation Data and Analytical Laboratory Results for
Groundwater Samples Collected at Former E-Z Serve Station # 100877
525 West A Street, Hayward, California**

Well I.D.	Date Sampled	Well Elevation (feet)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (feet)	EPA Methods 8015 and 8020 Concentration ($\mu\text{g/L}$)					
						TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	
MW-4	5-Feb-92	97.10	21.31		75.79	16,000	2,700	410	<1	3,400	
	11-Sep-92		20.62		76.48	43,000	7,600	1,600	1,400	4,100	
	22-Dec-92		20.37		76.73	29,000	8,800	1,200	1,500	3,700	
	3-Mar-93		16.78		80.32	17,000	5,000	1,500	680	1,700	
	23-Jun-93		17.45		79.65	5,700	3,000	120	560	790	
	30-Sep-93		18.64		78.46	21,000	7,000	2,100	970	2,600	
	6-Feb-94		18.59		78.51	24,000	7,200	1,600	990	3,200	
	20-Sep-94		21.13		75.97	7,200	2,000	360	380	1,000	
MW-5	5-Feb-92	96.73	20.93		75.80	78,000	7,900	5,000	2,900	1,800	
	11-Sep-92		20.27		76.46	49,000	4,700	400	1,400	4,100	
	22-Dec-92		19.99		76.74	34,000	8,600	340	2,200	4,800	
	3-Mar-93		16.49		80.24	22,000	7,500	640	1,300	3,400	
	23-Jun-93		17.02		79.71	15,000	5,800	120	1,100	2,100	
	30-Sep-93		18.25		78.48	25,000	7,600	410	1,000	4,400	
	6-Feb-94		18.26		78.47	23,000	6,000	180	2,000	5,900	
	20-Sep-94		20.77		75.96	8,400	1,600	54	650	1,400	
duplicate	20-Sep-94				9,300	1,700	56	670	1,600		
MW-6	5-Feb-92	97.09	21.29		75.80	51,000	5,400	3,500	3,600	10,000	
	11-Sep-92		20.56		76.53	24,000	2,500	830	1,400	2,300	
	22-Dec-92		20.31		76.78	23,000	5,100	630	2,000	3,100	
	3-Mar-93		16.83		80.26	18,000	4,400	820	1,400	2,400	
	23-Jun-93		17.30		79.79	18,000	4,600	850	2,700	3,400	
	30-Sep-93		19.05	0.03	78.07		Sample Not Analyzed				
	6-Feb-94		18.55		78.54	20,000	4,600	690	2,100	2,500	
	20-Sep-94		21.05		76.04	11,000	2,000	140	1,200	760	
MW-7	23-Jun-93	97.44	17.87		79.57	29,000	4,200	71	4,400	5,600	
	30-Sep-93		18.94		78.50	30,000	3,200	71	2,800	3,400	
	6-Feb-94		19.11	0.06	78.39		Sample Not Analyzed				
	20-Sep-94		21.41		76.03	6,100	540	6	750	730	

**Table 1. Summary of Groundwater Elevation Data and Analytical Laboratory Results for
Groundwater Samples Collected at Former E-Z Serve Station # 100877
525 West A Street, Hayward, California**

Well I.D.	Date Sampled	Well Elevation (feet)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (feet)	EPA Methods 8015 and 8020 Concentration (µg/L)				
						TPHg	Benzene	Toluene	Ethylbenzene	Xylenes
MW-8	23-Jun-93	97.61	17.64		79.97	350	43	9	35	67
	30-Sep-93		18.85		78.76	2,700	190	340	170	720
	6-Feb-94		18.91		78.70	<100	<1	1	1	2
	20-Sep-94		21.43		76.18	<100	<1	<1	<1	<1
MW-9	23-Jun-93	95.41	15.94		79.47	45,000	14,000	1,200	2,800	12,000
	30-Sep-93		17.05		78.36	86,000	22,000	1,100	3,300	15,000
	6-Feb-94		17.07		78.34	43,000	10,000	460	2,100	7,500
	20-Sep-94		19.61		75.80	7,500	2,200	97	400	1,200
MW-10	23-Jun-93	97.11	17.39		79.72	35,000	980	640	3,500	12,000
	30-Sep-93		18.58		78.53	4,000	230	12	100	680
	6-Feb-94		18.61		78.50	2,000	69	12	220	120
	20-Sep-94		21.15		75.96	2,800	34	16	270	560
QA/QC Field blank	20-Sep-94				97.09	<100	<1	<1	<1	<1

ATTACHMENT A

**GROUNDWATER SAMPLING PROCEEDURES
GROUNDWATER SAMPLE COLLECTION RECORDS
ANALYTICAL LABORATORY DATA SHEETS**

**EZ-SERVE
QUARTERLY GROUNDWATER MONITORING PROGRAM
SAMPLING AND ANALYSIS PLAN**

The following sections describe the procedures and protocols to be followed during the quarterly groundwater monitoring events at all EZ-Serve sites.

Depth-to-Water Measurements

Prior to sampling the groundwater monitoring wells, the wells will be opened to the atmosphere for approximately one-quarter of one hour, to allow the static water level to adjust to the open barometric pressure. The depth-to-groundwater will then be measured, using an oil-water interface probe, and a check for free-product on top of the water column will be made. The interface probe will be lowered slowly until free product or water is encountered. At this point, the mark on the interface probe wire will be read to the nearest 0.01 feet at the permanent reference point on the top of the well casing. If free product is encountered the probe will be lowered until water is encountered. The difference between the two depths will correspond to the thickness of the free product. The total depth of the well will then be measured using the same probe. A bailer will then be lowered into the water to approximately one-half the bailer length. The bailer will be checked for the presence of a product sheen.

In the event that a dedicated bailer or purge tubing exists in the well the dedicated equipment will be removed prior to checking the depth-to-water, and temporarily stored in a clean, plastic garbage bag.

The depth-to-water and bottom of well measurements, and the presence or absence of free product, will be recorded on the field sampling form. In addition, comments regarding the condition of the well and/or containment box will also be noted on the field sampling sheet at this time. Wells observed to contain a product sheen or free product on top of the water column will not be purged or sampled.

Groundwater Monitoring Well Purging

The depth-to-water and bottom of well measurements will be used to calculate the volume of water contained in one well volume. The following values will be used to calculate the volume of water contained in the well casing and filter pack surrounding the well.

<u>Well Diameter</u>	<u>Gallons/linear foot</u>
2-inch	0.16
4-inch	0.65
8-inch filter pack	0.78
10-inch filter pack	1.21

The minimum purge volume will be three times the calculated well volume. Once the minimum purge volume has been calculated purging will begin. Purging will be conducted

using either a centrifugal pump connected to a dedicated Wattera pump or a pre-cleaned submersible pump. Temperature, pH, and specific conductance of the purge water will be monitored during the purging process at regular intervals. Purging will cease when the monitored parameters have stabilized (three consecutive readings not varying by more than 10-percent) and a minimum of three well volumes have been purged.

In the event a well dries out during purging, the well will be allowed to recover to 80-percent of its original well volume, or for 24-hours, whichever is less, prior to collecting a groundwater sample.

Groundwater Monitoring Well Sampling

Once a well has been successfully purged a groundwater sample will be collected using a disposable polyethylene bailer connected to clean nylon or polyethylene cord. The bailer will be lowered slowly into the water to avoid agitation of the sample. A portion of the sample will be placed in a container and the monitoring parameters will be recorded. The remaining portion of the sample will be transferred from the bailer to the appropriate, laboratory supplied sampling bottles, using a bottom emptying device. Containers for volatile organic analyses will be filled completely, leaving a positive meniscus, so no airspace remains in the vial after sealing.

The sample bottles will be labeled with the well identification (i.e. MW-1, MW-2, etc), date and time of the sample collection, the field technicians initials, job number, analyses to be performed, and other relevant information. Samples will immediately be placed in an insulated cooler containing blue ice. The samples will be maintained at approximately 4°C until reaching the analytical laboratory.

Laboratory Analysis

Samples will be shipped, under appropriate chain-of-custody procedures, to SPL Laboratory in Houston, Texas, within 48-hours following collection. SPL Laboratory is certified by the State of California for performing the requested analyses. Samples will be analyzed for total petroleum hydrocarbons as gasoline (TPHg), diesel fuel, (TPHd), and benzene, toluene, ethylbenzene, and xylene isomers, following Environmental Protection Agency Methods 5030, 8015 modified, and 8020. Samples will be analyzed on a standard two week turn-around time.

QA/QC Procedures

Instrument calibration. Equipment used to monitor groundwater parameters will be calibrated prior to beginning purging at the site. Monitoring equipment will be calibrated following the manufactures instructions using laboratory grade standards.

Equipment Decontamination. Non-disposable and non-dedicated sampling equipment will be cleaned prior to use and between uses in each well. Downhole equipment will be

cleaned by washing the equipment using a non-phosphate soap solution and rinsing the equipment twice with distilled water.

Trip Blank. Trip blanks will be prepared by the analytical laboratory and will accompany the sample bottles throughout the sampling event. One trip blank will be prepared for each site. Trip blanks will be analyzed for volatile constituents (TPHg and BTEX) only.

Field Blank. Field blanks will be collected in the field by the field technician. A field blank will be prepared, prior to sampling, by filling three 40-ml. VOAs with distilled water. Field blanks will be analyzed for volatile constituents (TPHg and BTEX) only.

JOB NAME: EZ-SERV - HAYWARD
 LOCATION: GARDEN AVE @ A'ST. - HAYWARD, CA
 JOB NO: 1564-04
 DATE: 9-20-94
 PROJ. MGR: TOM WHEELER

CLIENT: EZ-SERV
 CONTACT: TODD MILLER
 PHONE: 210-2278
 SECONDARY: _____
 PHONE: _____

FIELD PERSONNEL: M^CIIVENNA
 SAFETY OFFICER: M^CIIVENNA H&S PLAN ONSITE? (YES) (NO) WEATHER: CLEAR, WARMING

pH INSTRUMENT: YSI #5500 SER. NO: _____ pH 4.0 = 4.0 pH 7.0 = 7.0 pH 10.0 = 10.0

CONDUCTIVITY INSTRUMENT: YSI #3500 SER. NO: _____ INTERNAL CALIBRATION PERFORMED (YES) / (NO)

OTHER INSTRUMENTATION: ORS OIL/WATER INTERFACE PROBE

*** NO WELLS HAVE FOOT VALVES ON TUBES ***

1) 0835	
1) 0800	- ARRIVE BC-CONCORD, PICK UP TRAILER (REPAIRED FLAT), COOLER W/ BOTTLES & ICE
2) 0820	- LEAVE FOR SITE
3) 0925	- ARRIVE SITE, MEET W/ TOM WHEELER, TOUR SITE, MARK WELLS W/ ORANGE SPRAY PAINT. INVENTORY: SITE IS OVERGROWN W/ THISTLES, SCATTERED W/ TRASH & DEBRIS. 10-55 GAL DRUMS ON SITE APPEAR TO CONTAIN SOIL, WATER - WILL PLACE # 240Z MASTER LOCK @ GATE
4) 1012	- BEGIN TAKING SWLs, TDs *SEE SEPERATE SHEET
5) 1145	- COMPLETE SWLs
6) 1235	- BEGIN PURGING MW-8
7) 1300	- SAMPLE MW-8
8) 1308	- BEGIN PURGING MW-10
9) 1330	- SAMPLE MW-10
10) 1343	- BEGIN SAMPLING MW-7
11) 1417	- SAMPLE MW-7
12) 1445	- BEGIN PURGING MW-9
13) 1515	- SAMPLE MW-9
14) 1533	- BEGIN PURGING MW-1
15) 1605	- SAMPLE MW-1
16) 1610	- BEGIN PURGING MW-2
17) 1650	- SAMPLE MW-2
18) 1700	- BEGIN PURGING MW-4
19) 1732	- SAMPLE MW-4
20) 1745	- BEGIN PURGING MW-5
21) 1812	- SAMPLE MW-5, & DUPLICATE # MW-5D
22) 1820	- COLLECT FIELD BLANK # MW-6FB
23) 1823	- BEGIN PURGING MW-6
24) 1853	- SAMPLE MW-6
25) 1904	- BEGIN PURGING MW-3
26) 1935	- SAMPLE MW-3
27) 1945	- LEAVE SITE

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EE-SERVE, HAYWARD Job No.: 1564-04 Date: 9-20-94
 Location: GARDEN AVE & A ST.
 Samplers Name: M^cFIVENINA
 Weather Conditions: CLEAR, WARM - 75°F

1. WATER LEVEL DATA: (from TOC)

- a. Depth to water (ft) = 21.05'
- b. Total Well Depth = 32.10'
- c. Length of Water Column = 11.05' (b. - a.)
- d. Casing Volume = 7.18g (c. x [gal/ft casing])
- e. Length of filter pack = 10'
- f. Filter pack volume = 6.82g (e. x [gal/ft filter pack])
- g. TOTAL WELL VOLUME = 14g (d. + f.)

TOC Elevation (from LS) _____
 Water Table Elev. _____
 Tape Corr. (TC) _____
 Well Dia. 4" x 8"

2-in. casing	= 0.16 gal/ft
4-in. casing	= 0.65 gal/ft
6-in. casing	= 1.47 gal/ft
6.5-in. casing	= 1.7 gal/ft
8-in. casing	= 2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH W/ WATERZA
- b. Required Purge Volume (@ 4 gallons per well volume) = 47 GAL
- c. Field Testing; Equipment Used VSI # 3500 PH, S.C., TEMP.
- d. Pump Rate _____
- e. Method of GW Disposal 55 GAL DRUM
- f. Recovery Rate: Slow (90% > 60 min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T°c	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
	1823					PUMP ON		
14	1831	22.0	6.50	1,259		GRAY-GREEN, FINE CLAY, FINE SILT, TURBID		32'
28	1839	22.0	6.51	1,271		CLEARER, CLEARER		↓
42	1847	22.1	6.47	1,266		SAME		
	1853	20.3	6.47	1,259		SAMPLED		

3. SAMPLE COLLECTION: Method DISP. BAILER Container 3-40ml VOA Preservation HCL
 Analysis TPH(G), 8015, BTEX

COMMENTS, REMARKS

* COLLECT FIELD BLANK # MW-6FB @ 1820

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ-SERVE, HAYWARD Job No.: 156A-04 Date: 9-20-94
 Location: GARDEN VIEW A ST.
 Samplers Name: M^C IVENNA
 Weather Conditions: CLEAR, WARM-75°F

1. WATER LEVEL DATA: (from TOC)

- a. Depth to water (ft) = 20.77'
- b. Total Well Depth = 32.48'
- c. Length of Water Column = 11.71' (b. - a.)
- d. Casing Volume = 7.61 g (c. x [gal/ft casing])
- e. Length of filter pack = 10'
- f. Filter pack volume = 6.82 g (e. x [gal/ft filter pack])
- g. TOTAL WELL VOLUME = 14.43 g (d. + f.)

TOC Elevation (from LS) _____
 Water Table Elev. _____
 Tape Corr. (TC) _____
 Well Dia. 4" x 8"

2-in. casing	= 0.16 gal/ft
4-in. casing	= 0.65 gal/ft
6-in. casing	= 1.47 gal/ft
6.5-in. casing	= 1.7 gal/ft
8-in. casing	= 2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH W/ WATERRA
- b. Required Purge Volume (@ 14.3 gallons per well volume) = 43.29 GAL
- c. Field Testing; Equipment Used YSI #3500 PH, S.C., TEMP.
- d. Pump Rate 2 GPM
- e. Method of GW Disposal 55 GAL DRUM
- f. Recovery Rate: Slow (90% > 60 min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T°c	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
	1745					PUMP ON		
14.5	1752	20.9	6.41	1,239		SLIGHTLY CLOUDY, FINE SILTS, FUEL ODOR		32'
29	1759	20.9	6.41	1,240		CLEARER, CLEARER		↓
44	1806	20.2	6.47	1,239		SAME		
	1812	19.7	6.47	1,207		SAMPLED		

3. SAMPLE COLLECTION: Method DISP. BAILER Container 3-40ml VOA Preservation HCL
 Analysis TPH(G), 8015, BTE

COMMENTS, REMARKS

* COLLECT DUPLICATE # MW-5D

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EB-SERV, HAYWARD Job No.: 1564-04 Date: 9-20-94

Location: GARDEN & A' ST., HAYWARD

Samplers Name: MCIVENNA

Weather Conditions: CLEAR, WARM - 75°F

1. WATER LEVEL DATA: (from TOC)

- a. Depth to water (ft) = 21.64'
- b. Total Well Depth = 32.10'
- c. Length of Water Column = 10.46' (b. - a.)
- d. Casing Volume = 6.79 g (c. x [gal/ft casing])
- e. Length of filter pack = 10'
- f. Filter pack volume = 6.82 g (e. x [gal/ft filter pack])
- g. TOTAL WELL VOLUME = 13.58 g (d. + f.)

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Dia. 4" x 8"

2-in. casing	= 0.16 gal/ft
4-in. casing	= 0.65 gal/ft
6-in. casing	= 1.47 gal/ft
6.5-in. casing	= 1.7 gal/ft
8-in. casing	= 2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH W/ WATERRA
- b. Required Purge Volume (@ 13.58 gallons per well volume) = 40.76 GAL
- c. Field Testing; Equipment Used YSI #3500 pH, S.C., TEMP.
- d. Pump Rate 1.8 GPM
- e. Method of GW Disposal 55 GAL DRUM
- f. Recovery Rate: Slow (90% > 60 min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T°C	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
<u>0</u>	<u>1904</u>					<u>PUMP ON</u>		
<u>14</u>	<u>1912</u>	<u>21.4</u>	<u>6.61</u>	<u>1,277</u>		<u>GRAY-GREEN SILTY FINE SANDS, FUEL ODOR</u>		<u>52'</u>
<u>28</u>	<u>1920</u>	<u>21.2</u>	<u>6.61</u>	<u>1,161</u>		<u>CLEANER, CLEARER</u>		<u> </u>
<u>42</u>	<u>1928</u>	<u>21.4</u>	<u>6.63</u>	<u>1,181</u>		<u>SAME</u>		
	<u>1935</u>	<u>19.9</u>	<u>6.58</u>	<u>1,153</u>		<u>SAMPLED</u>		

3. SAMPLE COLLECTION: Method DISP. BAILER Container 3-40 ml VOA Preservation HCL
 Analysis TPH (G), 8015, BTEX

COMMENTS, REMARKS

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EE SERVE HAYWARD Job No.: 156A-04 Date: 9-20-94
 Location: GARDEN AVE. Q 'A' STREET HAYWARD
 Samplers Name: McIVENNA
 Weather Conditions: CLEAR, WARM - 78°F

1. WATER LEVEL DATA: (from TOC)

- a. Depth to water (ft) = 20.77'
- b. Total Well Depth = 32.11'
- c. Length of Water Column = 11.34' (b. - a.)
- d. Casing Volume = 7.37g (c. x [gal/ft casing])
- e. Length of filter pack = 10'
- f. Filter pack volume = 6.82g (e. x [gal/ft filter pack])
- g. TOTAL WELL VOLUME = 14.74g (d. + f.)

TOC Elevation (from LS) _____
 Water Table Elev. _____
 Tape Corr. (TC) _____
 Well Dia. 4" - 8"

2-in. casing	= 0.16 gal/ft
4-in. casing	= 0.65 gal/ft
6-in. casing	= 1.47 gal/ft
6.5-in. casing	= 1.7 gal/ft
8-in. casing	= 2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH W/ WATERPA
- b. Required Purge Volume (@ 14.74 gallons per well volume) = 44.22 GAL
- c. Field Testing; Equipment Used YSI # 3500 PH, S.C., TEMP.
- d. Pump Rate 1.8 GPM
- e. Method of GW Disposal 55 GAL DRUM
- f. Recovery Rate: Slow (90% > 60 min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T°C	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
	1700					PUMP ON		
15	1708	20.4	6.62	1,285		SOME SLIGHT GLOWING, FUEL ODDOR, FINE SILTS		32'
30	1716	20.4	6.60	1,283		SAME		
45	1724	20.4	6.62	1,271		SAME		
	1732	18.6	6.64	1,253		SAMPLED		

3. SAMPLE COLLECTION: Method DISP. BAILER Container 3-40 ml VOA Preservation HCL
 Analysis TPH(G), 2015, BTEX

COMMENTS, REMARKS

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: E3-SERVE, HAYWARD Job No.: 1564-04 Date: 9-20-94
 Location: GARDEN AVE & 'A' ST, HAYWARD
 Samplers Name: McIVENNA
 Weather Conditions: CLEAR WARM - 78°F

1. WATER LEVEL DATA: (from TOC)

- a. Depth to water (ft) = 22.17
- b. Total Well Depth = 32.30'
- c. Length of Water Column = 10.13' (b. - a.)
- d. Casing Volume = 6.58g (c. x [gal/ft casing])
- e. Length of filter pack = 10'
- f. Filter pack volume = 6.81g (e. x [gal/ft filter pack])
- g. TOTAL WELL VOLUME = 19.98g (d. + f.)

TOC Elevation (from LS) _____
 Water Table Elev. _____
 Tape Corr. (TC) _____
 Well Dia. 4" x 8"

2-in. casing	=0.16 gal/ft
4-in. casing	=0.65 gal/ft
6-in. casing	=1.47 gal/ft
6.5-in. casing	=1.7 gal/ft
8-in. casing	=2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH W/WATERRA
- b. Required Purge Volume (@ 19.98 gallons per well volume) = 59.94 GAL
- c. Field Testing; Equipment Used YSI # 3500 PH, S.C., TEMP.
- d. Pump Rate 2.5 GPM
- e. Method of GW Disposal 55 GAL DRUM
- f. Recovery Rate: Slow (90% > 60 min), Medium (90% 30-60 min), Fast (90% < 10 min) _____

Volume Removed (gal)	Time	T°C	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
	1610					PUMP ON		
20	1618	22.0	6.55	1,365		SOME CLOUDING, FINE SILTS FUEL ODOR		32'
40	1626	22.2	6.58	1,371		CLEARER, CLEARER, FUEL ODOR		↓
60	1634	21.1	6.59	1,346		SAMPLE		
	1650	19.5	6.60	1,298		SAMPLED		

3. SAMPLE COLLECTION: Method DISP. BAILER Container 3-40ml VOA Preservation HCL
 Analysis TPH(G), BTEX, SO15

COMMENTS, REMARKS

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: E3-SERV, HAYWARD Job No.: 1564-0A Date: 9-20-94
 Location: GARDEN AVE. & 'A' ST., HAYWARD
 Samplers Name: M^C IUVENNA
 Weather Conditions: CLEAR, WARM-77°F

1. WATER LEVEL DATA: (from TOC)

- a. Depth to water (ft) = 20.59'
- b. Total Well Depth = 32.10'
- c. Length of Water Column = 11.51' (b. - a.)
- d. Casing Volume = 7.48g (c. x [gal/ft casing])
- e. Length of filter pack = 10'
- f. Filter pack volume = 6.82g (e. x [gal/ft filter pack])
- g. TOTAL WELL VOLUME = 14.30g (d. + f.)

TOC Elevation (from LS) _____
 Water Table Elev. _____
 Tape Corr. (TC) _____
 Well Dia. 4" x 8"

2-in. casing	= 0.16 gal/ft
4-in. casing	= 0.65 gal/ft
6-in. casing	= 1.47 gal/ft
6.5-in. casing	= 1.7 gal/ft
8-in. casing	= 2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH W/ WATERRA
- b. Required Purge Volume (@ 14.3 gallons per well volume) = 42.91 GAL
- c. Field Testing; Equipment Used YSI # 3500 PH, SC, TEMP.
- d. Pump Rate 1.8 GPM
- e. Method of GW Disposal 55 GAL DRUM
- f. Recovery Rate: Slow (90% > 60 min), Medium (90% 30-60 min), Fast (90% < 10 min) _____

Volume Removed (gal)	Time	T°C	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
	<u>1535</u>					<u>PUMP ON</u>		
<u>15</u>	<u>1540</u>	<u>21.5</u>	<u>6.37</u>	<u>1,267</u>		<u>CLEAR, CLEAR, SLIGHT FUEL ODOR</u>		<u>30'</u>
<u>30</u>	<u>1548</u>	<u>21.4</u>	<u>6.32</u>	<u>1,268</u>		<u>SAME</u>		<u>↓</u>
<u>44</u>	<u>1555</u>	<u>21.2</u>	<u>6.35</u>	<u>1,270</u>		<u>SAME</u>		<u>↓</u>
	<u>1605</u>	<u>19.8</u>	<u>6.40</u>	<u>1,231</u>		<u>SAMPLED</u>		

3. SAMPLE COLLECTION: Method DISP. BAILER Container 3-40 ml VOA Preservation HCL
 Analysis TPH(G), BTEX, 8015

COMMENTS, REMARKS

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EE-SERV, HAYWARD Job No.: 1564-04 Date: 9-20-94

Location: GARDEN A ST, HAYWARD

Samplers Name: MCIVENNA

Weather Conditions: WARM-77°F

1. WATER LEVEL DATA: (from TOC)

- a. Depth to water (ft) = 19.61'
- b. Total Well Depth = 31.60'
- c. Length of Water Column = 11.99' (b. - a.)
- d. Casing Volume = 1.91g (c. x [gal/ft casing])
- e. Length of filter pack = 10'
- f. Filter pack volume = 5.46g (e. x [gal/ft filter pack])
- g. TOTAL WELL VOLUME = 7.37g (d. + f.)

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Dia. 2" x 6.5"

2-in. casing	=0.16 gal/ft
4-in. casing	=0.65 gal/ft
6-in. casing	=1.47 gal/ft
6.5-in. casing	=1.7 gal/ft
8-in. casing	=2.60 gal/ft
10-in. casing	=4.1 gal/ft
12-in. casing	=5.0 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH W/ WATERRA
- b. Required Purge Volume (@ 7.37 gallons per well volume) = 22.13 GAL
- c. Field Testing; Equipment Used YSI # 3500 PH, S.C., TEMP
- d. Pump Rate 1.3 GPM
- e. Method of GW Disposal 55 GAL DRUM
- f. Recovery Rate: Slow (90% > 60 min), Medium (90% 30-60 min), Fast (90% < 10 min) _____

Volume Removed (gal)	Time	T°C	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
	1445					PUMP ON		
7.5	1452	23.4	6.47	1,371		GREEN-BROWN, FUEL ODOR, FINE SANDS, SILTS		
15	1458	22.7	6.43	1,317		CLEANER, CLEARER		
23	1505	22.7	6.45	1,312		SAME		
	1515	20.5	6.49	1,245		SAMPLED		

3. SAMPLE COLLECTION: Method DSP, BAILER Container 3 40ml VOA Preservation HCL
 Analysis TPH (G), BTEX, 8015

COMMENTS, REMARKS
NEEDS LOCK

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: E3-SERV HAYWARD Job No.: 1564-04 Date: 9-20-94
 Location: GARDEN AVE & 'A' ST., HAYWARD, CA
 Samplers Name: McILVENNA
 Weather Conditions: CLEAR, WARM-77°F

1. WATER LEVEL DATA: (from TOC)

- a. Depth to water (ft) = 21.15'
- b. Total Well Depth = 31.80'
- c. Length of Water Column = 10.65' (b. - a.)
- d. Casing Volume = 1.79 (c. x [gal/ft casing])
- e. Length of filter pack = 10'
- f. Filter pack volume = 5.46 (e. x [gal/ft filter pack])
- g. TOTAL WELL VOLUME = 7.16 (d. + f.)

TOC Elevation (from LS) _____
 Water Table Elev. _____
 Tape Corr. (TC) _____
 Well Dia. 7" x 6.5"

2-in. casing	= 0.16 gal/ft
4-in. casing	= 0.65 gal/ft
6-in. casing	= 1.47 gal/ft
6.5-in. casing	= 1.7 gal/ft
8-in. casing	= 2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH w/ WATERRA
- b. Required Purge Volume (@ 7.16 gallons per well volume) = 21.48 GAL
- c. Field Testing; Equipment Used YSI #3500 PH, S.C., TEMP.
- d. Pump Rate 1.45 GPM
- e. Method of GW Disposal 55 GAL DRUM
- f. Recovery Rate: Slow (90% > 60 min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T°C	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
	<u>1308</u>					<u>PUMP ON</u>		
<u>7.25</u>	<u>1313</u>	<u>22.0</u>	<u>6.54</u>	<u>1,009</u>		<u>GRAY-GREEN FUEL ODOOR, FINE SILTS SANDS</u>		<u>30'</u>
<u>14.5</u>	<u>1318</u>	<u>22.1</u>	<u>6.54</u>	<u>996</u>		<u>SOME CLEARING</u>		<u> </u>
<u>23</u>	<u>1323</u>	<u>22.2</u>	<u>6.56</u>	<u>993</u>		<u>SAME, FEW SANDS, FINE SILTS</u>		<u> </u>
	<u>1330</u>	<u>20.7</u>	<u>6.57</u>	<u>958</u>		<u>SAMPLED</u>		

3. SAMPLE COLLECTION: Method DISP BAILER Container 3-40 ml VOA Preservation HCL
 Analysis TPH, B015, BTEX

COMMENTS, REMARKS

NEEDS LOOK

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ-SERV, HAYWARD Job No.: 156A-04 Date: 9-20-94
 Location: GARDEN AVENUE 'A' ST., HAYWARD
 Samplers Name: M^OLIVENNA
 Weather Conditions: CLEAR, WARM - 77°F

1. WATER LEVEL DATA: (from TOC)

- a. Depth to water (ft) = 21.15'
- b. Total Well Depth = 31.80'
- c. Length of Water Column = 10.65' (b. - a.)
- d. Casing Volume = 1.74 (c. x [gal/ft casing])
- e. Length of filter pack = 10'
- f. Filter pack volume = 5.46 (e. x [gal/ft filter pack])
- g. TOTAL WELL VOLUME = 7.16 (d. + f.)

TOC Elevation (from LS) _____
 Water Table Elev. _____
 Tape Corr. (TC) _____
 Well Dia. 2" x 6.5"

2-in. casing	= 0.16 gal/ft
4-in. casing	= 0.65 gal/ft
6-in. casing	= 1.47 gal/ft
6.5-in. casing	= 1.7 gal/ft
8-in. casing	= 2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH w/ WATERBA
- b. Required Purge Volume (@ 7.16 gallons per well volume) = 21.48 GAL
- c. Field Testing; Equipment Used YSI #3500 PH, SC, TEMP.
- d. Pump Rate 1.02 GPM
- e. Method of GW Disposal 55 GAL DRUM
- f. Recovery Rate: Slow (90% > 60 min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T°C	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
	1343					PUMP ON		
7.25	1348	24.3	6.51	1,328		GRAY-GREEN SANDY SILTY FUEL OIL TURBID		30'
14.5	1353	26.9	6.49	1,382		SAME		↓
22.5	1405	26.9	6.46	1,400		SOME CLEARING		↓
	1417	20.4	6.53	1,324		SAMPLED		

3. SAMPLE COLLECTION: Method DISP. BAITER Container 3.40 mL VOA Preservation HCL
 Analysis TPH(G), BTEX, 8015

COMMENTS, REMARKS
NEEDS LOCK

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ-SERV, HAYWARD Job No.: 156A-04 Date: 9-20-94
 Location: GARDEN AVE + 'A' ST, HAYWARD, CA
 Samplers Name: MOLIVENNA
 Weather Conditions: CLEAR, WARM-75°F

1. WATER LEVEL DATA: (from TOC)

- a. Depth to water (ft) = 21.43'
- b. Total Well Depth = 32.15'
- c. Length of Water Column = 10.72' (b. - a.)
- d. Casing Volume = 1.71g (c. x [gal/ft casing])
- e. Length of filter pack = 10'
- f. Filter pack volume = 5.46g (e. x [gal/ft filter pack])
- g. TOTAL WELL VOLUME = 7.17g (d. + f.)

TOC Elevation (from LS) _____
 Water Table Elev. _____
 Tape Corr. (TC) _____
 Well Dia. 2" x 6.5"

2-in. casing	= 0.16 gal/ft
4-in. casing	= 0.65 gal/ft
6-in. casing	= 1.47 gal/ft
6.5-in. casing	= 1.7 gal/ft
8-in. casing	= 2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH PUMP W/ WATERRA
- b. Required Purge Volume (@ 7.17 gallons per well volume) = 21.51 GAL
- c. Field Testing; Equipment Used YSI # 3500 PH, SC, TEMP.
- d. Pump Rate 1.95 GPM
- e. Method of GW Disposal 55 GAL DRUM
- f. Recovery Rate: Slow (90% > 60 min), Medium (90% 30-60 min), Fast (90% < 10 min) _____

Volume Removed (gal)	Time	T°C	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
	1235					PUMP ON		
7.25	1240	23.0	6.50	1,306		FINE SANDS, SILTS, TURBID		30'
14.5	1245	21.8	6.49	1,274		CLEARER, CLEARER, FINE SILTS, SANDS		
23	1251	21.8	6.51	1,269		SAME		
	1300	20.7	6.53	1,265		SAMPLED		

3. SAMPLE COLLECTION: Method DISP. BAKER Container 3-40 ml VOA Preservation HCL
 Analysis TPH, 9-015, BTEX

COMMENTS, REMARKS
* NEEDS 2" EXPANDING CAP W/ LOCK

CHAIN OF CUSTODY RECORD

Client name **ISC-P.H.** Project or PO# **156A-0A**
 Address **3480 BUSKIEK AVE.** Phone # **(510) 937-9010**
 City, State, Zip **PLEASANT HILL, CA. 94523** Report attention **TODD MIHLER**

Analyses required									

Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by	Sample description	Number of containers		Remarks									
				KEVIN McIVENNA													
1	9/20/94	1300	GW		MW-8	3	3										
2		1330			MW-10	3	3										
3		1417			MW-7	3	3										
4		1515			MW-9	3	3										
5		1825 1455			MW-1	3	3										
6		1650			MW-2	3	3										
7		1732			MW-4	3	3										
8		1812			MW-5	3	3										
9		1813			MW-5D	3	3										
10		1820	AQ		MW-6FB	3	3										
11		1853	GW		MW-6	3	3										
12		1935			MW-3	3	3										

7PH(4) 2030 1805
1515 1820

Signature	Print Name	Company	Date	Time
<i>[Signature]</i>	KEVIN McIVENNA	BROWN & CALDWELL-P.H.	9/21/94	1500
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by Laboratory				

BC ANALYTICAL
 1255 Powell Street, Emeryville, CA 94608 (510) 428-2300
 801 Western Avenue, Glendale, CA 91201 (818) 247-5737
 1200 Gene Autry Way, Anaheim, CA 92805 (714) 978-0113

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Disposal arrangements: _____

*KEY WW—Wastewater SU—Surface Water SO—Sol
 SL—Sludge PE—Petroleum OT—Other
 NA—Nonaqueous GW—Groundwater AQ—Aqu-



SPL, INC.

REPORT APPROVAL SHEET

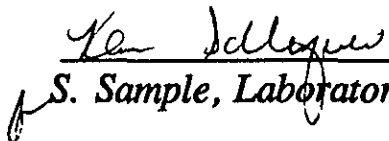
WORK ORDER NUMBER: 94-09-861

Approved for release by:



Brent Barron, Project Manager

Date: 10/03/94



S. Sample, Laboratory Director

Date: 10/03/94



****SUMMARY REPORT****

09/30/94

Company: EZ Serve Inc.
Site: Hayward, CA
Project No: 1574-04
Project: EZSERV # 100877

ANALYTICAL DATA
NOTE: ND - Not Detected

SPL ID MATRIX	CLIENT ID DATE SAMPLED	BENZENE PQL	TOLUENE PQL	ETHYLBENZ. PQL	XYLENE PQL	TPH-G PQL	TPH-D	LEAD	MTBE
9409861-01 WATER	MW-8 09/20/94 13:00:00	ND 1µg/L	ND 1µg/L	ND 1µg/L	ND 1µg/L	ND 0.1mg/L			
9409861-02 WATER	MW-10 09/20/94 13:30:00	34 1µg/L	16 1µg/L	270 1µg/L	560 1µg/L	2.8 0.1mg/L			
9409861-03 WATER	MW-7 09/20/94 14:17:00	540 5µg/L	6 5µg/L	750 5µg/L	730 5µg/L	6.1 0.5mg/L			
9409861-04 WATER	MW-9 09/20/94 15:15:00	2200 5µg/L	97 5µg/L	400 5µg/L	1200 5µg/L	7.5 0.5mg/L			
9409861-05 WATER	MW-1 09/20/94 16:05:00	3100 10µg/L	75 10µg/L	440 10µg/L	870 10µg/L	10 1.0mg/L			
9409861-06 WATER	MW-2 09/20/94 16:50:00	4500 25µg/L	300 25µg/L	1200 25µg/L	4000 25µg/L	19 2.5mg/L			
9409861-07 WATER	MW-4 09/20/94 17:32:00	2000 5µg/L	360 5µg/L	380 5µg/L	1000 5µg/L	7.2 0.5mg/L			
9409861-08 WATER	MW-5 09/20/94 18:12:00	1600 5µg/L	54 5µg/L	650 5µg/L	1400 5µg/L	8.4 0.5mg/L			
9409861-09 WATER	MW-5D 09/20/94 18:13:00	1700 5µg/L	56 5µg/L	670 5µg/L	1600 5µg/L	9.3 0.5mg/L			
9409861-10 WATER	MW-6FB 09/20/94 18:20:00	ND 1µg/L	ND 1µg/L	ND 1µg/L	ND 1µg/L	ND 0.1mg/L			
9409861-11 WATER	MW-6 09/20/94 18:53:00	2000 10µg/L	140 10µg/L	1200 10µg/L	760 10µg/L	11 1.0mg/L			

BTEX - METHOD 8020***
TPH-G - Modified 8015 - Gasoline



****SUMMARY REPORT****

09/30/94

Company: EZ Serve Inc.
Site: Hayward, CA
Project No: 1574-04
Project: EZSERV # 100877

ANALYTICAL DATA
NOTE: ND - Not Detected

SPL ID MATRIX	CLIENT ID DATE SAMPLED	BENZENE PQL	TOLUENE PQL	ETHYLBENZ. PQL	XYLENE PQL	TPH-G PQL	TPH-D	LEAD	MTBE
9409861-12 WATER	NW-3 09/20/94 19:35:00	2200 10µg/L	130 10µg/L	670 10µg/L	930 10µg/L	8.2 1.0mg/L			



Certificate of Analysis No. 9409861-01

EZ Serve Inc.
3550 North Loop West, #600
Houston, TX 77292
ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877
SITE: Hayward, CA
SAMPLED BY: Brown & Cadwell
SAMPLE ID: MW-8

PROJECT NO: 1574-04
MATRIX: WATER
DATE SAMPLED: 09/20/94 13:00:00
DATE RECEIVED: 09/22/94

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, and TOTAL VOLATILE AROMATIC HYDROCARBONS.

Surrogate % Recovery
1,4-Difluorobenzene 106
4-Bromofluorobenzene 78

METHOD 8020***
Analyzed by: JZL
Date: 09/28/94

Petroleum Hydrocarbons - Gasoline ND 0.1 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 64
4-Bromofluorobenzene 72

Modified 8015 - Gasoline
Analyzed by: JZL
Date: 09/28/94

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance. SPL California License # 1903

Signature of Brian Brown
SPL, Inc., - Project Manager



Certificate of Analysis No. 9409861-02

EZ Serve Inc.
3550 North Loop West, #600
Houston, TX 77292
ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877
SITE: Hayward, CA
SAMPLED BY: Brown & Cadwell
SAMPLE ID: MW-10

PROJECT NO: 1574-04
MATRIX: WATER
DATE SAMPLED: 09/20/94 13:30:00
DATE RECEIVED: 09/22/94

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, and TOTAL VOLATILE AROMATIC HYDROCARBONS.

Surrogate % Recovery
1,4-Difluorobenzene 122
4-Bromofluorobenzene 152 «

METHOD 8020***
Analyzed by: JZL
Date: 09/28/94

Petroleum Hydrocarbons - Gasoline 2.8 0.1 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 125
4-Bromofluorobenzene 241 «

Modified 8015 - Gasoline
Analyzed by: JZL
Date: 09/28/94

(P) - Practical Quantitation Limit « - Recovery beyond control limits.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance. SPL California License # 1903

Signature of Brian Brown
SPL, Inc., - Project Manager



Certificate of Analysis No. 9409861-03

EZ Serve Inc.
3550 North Loop West, #600
Houston, TX 77292
ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877
SITE: Hayward, CA
SAMPLED BY: Brown & Cadwell
SAMPLE ID: MW-7

PROJECT NO: 1574-04
MATRIX: WATER
DATE SAMPLED: 09/20/94 14:17:00
DATE RECEIVED: 09/22/94

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, and TOTAL VOLATILE AROMATIC HYDROCARBONS.

Surrogate % Recovery
1,4-Difluorobenzene 119
4-Bromofluorobenzene 115

METHOD 8020***
Analyzed by: JZL
Date: 09/28/94

Petroleum Hydrocarbons - Gasoline 6.1 0.5 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 85
4-Bromofluorobenzene 149 <

Modified 8015 - Gasoline
Analyzed by: JZL
Date: 09/28/94

(P) - Practical Quantitation Limit < - Recovery beyond control limits.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance. SPL California License # 1903

Signature of Brian Brown
SPL, Inc., - Project Manager



Certificate of Analysis No. 9409861-04

EZ Serve Inc.
3550 North Loop West, #600
Houston, TX 77292
ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877
SITE: Hayward, CA
SAMPLED BY: Brown & Cadwell
SAMPLE ID: MW-9

PROJECT NO: 1574-04
MATRIX: WATER
DATE SAMPLED: 09/20/94 15:15:00
DATE RECEIVED: 09/22/94

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, and TOTAL VOLATILE AROMATIC HYDROCARBONS.

Table with 2 columns: Surrogate, % Recovery. Rows include 1,4-Difluorobenzene and 4-Bromofluorobenzene.

METHOD 8020***
Analyzed by: JZL
Date: 09/28/94

Petroleum Hydrocarbons - Gasoline 7.5 0.5 P mg/L

Table with 2 columns: Surrogate, % Recovery. Rows include 1,4-Difluorobenzene and 4-Bromofluorobenzene.

Modified 8015 - Gasoline
Analyzed by: JZL
Date: 09/28/94

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance. SPL California License # 1903

Signature of Brian Brown
SPL, Inc., - Project Manager



Certificate of Analysis No. 9409861-05

EZ Serve Inc.
3550 North Loop West, #600
Houston, TX 77292
ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877
SITE: Hayward, CA
SAMPLED BY: Brown & Cadwell
SAMPLE ID: MW-1

PROJECT NO: 1574-04
MATRIX: WATER
DATE SAMPLED: 09/20/94 16:05:00
DATE RECEIVED: 09/22/94

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, and TOTAL VOLATILE AROMATIC HYDROCARBONS.

Surrogate % Recovery
1,4-Difluorobenzene 120
4-Bromofluorobenzene 69

METHOD 8020***
Analyzed by: JZL
Date: 09/29/94

Petroleum Hydrocarbons - Gasoline 10 1.0 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 93
4-Bromofluorobenzene 82

Modified 8015 - Gasoline
Analyzed by: JZL
Date: 09/29/94

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance. SPL California License # 1903

Signature of Brian Brown
SPL, Inc., - Project Manager



Certificate of Analysis No. 9409861-06

EZ Serve Inc.
3550 North Loop West, #600
Houston, TX 77292
ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877
SITE: Hayward, CA
SAMPLED BY: Brown & Cadwell
SAMPLE ID: MW-2

PROJECT NO: 1574-04
MATRIX: WATER
DATE SAMPLED: 09/20/94 16:50:00
DATE RECEIVED: 09/22/94

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, and TOTAL VOLATILE AROMATIC HYDROCARBONS.

Surrogate % Recovery
1,4-Difluorobenzene 115
4-Bromofluorobenzene 98

METHOD 8020***
Analyzed by: JZL
Date: 09/29/94

Petroleum Hydrocarbons - Gasoline 19 2.5 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 76
4-Bromofluorobenzene 105

Modified 8015 - Gasoline
Analyzed by: JZL
Date: 09/29/94

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance. SPL California License # 1903

Handwritten signature of Brian Brown
SPL, Inc., - Project Manager



Certificate of Analysis No. 9409861-07

EZ Serve Inc.
3550 North Loop West, #600
Houston, TX 77292
ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877
SITE: Hayward, CA
SAMPLED BY: Brown & Cadwell
SAMPLE ID: MW-4

PROJECT NO: 1574-04
MATRIX: WATER
DATE SAMPLED: 09/20/94 17:32:00
DATE RECEIVED: 09/22/94

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, and TOTAL VOLATILE AROMATIC HYDROCARBONS.

Surrogate % Recovery
1,4-Difluorobenzene 123
4-Bromofluorobenzene 77

METHOD 8020***

Analyzed by: JZL
Date: 09/29/94

Petroleum Hydrocarbons - Gasoline 7.2 0.5 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 87
4-Bromofluorobenzene 92

Modified 8015 - Gasoline

Analyzed by: JZL
Date: 09/29/94

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance. SPL California License # 1903

Handwritten signature of Brian Brown

SPL, Inc., - Project Manager



Certificate of Analysis No. 9409861-08

EZ Serve Inc.
3550 North Loop West, #600
Houston, TX 77292
ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877
SITE: Hayward, CA
SAMPLED BY: Brown & Cadwell
SAMPLE ID: MW-5

PROJECT NO: 1574-04
MATRIX: WATER
DATE SAMPLED: 09/20/94 18:12:00
DATE RECEIVED: 09/22/94

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, and TOTAL VOLATILE AROMATIC HYDROCARBONS.

Surrogate % Recovery
1,4-Difluorobenzene 124
4-Bromofluorobenzene 80

METHOD 8020***
Analyzed by: JZL
Date: 09/29/94

Petroleum Hydrocarbons - Gasoline 8.4 0.5 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 108
4-Bromofluorobenzene 111

Modified 8015 - Gasoline
Analyzed by: JZL
Date: 09/29/94

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance. SPL California License # 1903

Signature of Brian Brown
SPL, Inc., Project Manager



Certificate of Analysis No. 9409861-09

EZ Serve Inc.
3550 North Loop West, #600
Houston, TX 77292
ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877
SITE: Hayward, CA
SAMPLED BY: Brown & Cadwell
SAMPLE ID: MW-5D

PROJECT NO: 1574-04
MATRIX: WATER
DATE SAMPLED: 09/20/94 18:13:00
DATE RECEIVED: 09/22/94

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, and TOTAL VOLATILE AROMATIC HYDROCARBONS.

Surrogate % Recovery
1,4-Difluorobenzene 125
4-Bromofluorobenzene 108

METHOD 8020***
Analyzed by: JZL
Date: 09/29/94

Petroleum Hydrocarbons - Gasoline 9.3 0.5 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 105
4-Bromofluorobenzene 134 «

Modified 8015 - Gasoline
Analyzed by: JZL
Date: 09/29/94

(P) - Practical Quantitation Limit « - Recovery beyond control limits.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance. SPL California License # 1903

Signature of Brian Brown
SPL, Inc., - Project Manager



Certificate of Analysis No. 9409861-10

EZ Serve Inc.
3550 North Loop West, #600
Houston, TX 77292
ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877
SITE: Hayward, CA
SAMPLED BY: Brown & Cadwell
SAMPLE ID: MW-6FB

PROJECT NO: 1574-04
MATRIX: WATER
DATE SAMPLED: 09/20/94 18:20:00
DATE RECEIVED: 09/22/94

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, and TOTAL VOLATILE AROMATIC HYDROCARBONS.

Surrogate % Recovery
1,4-Difluorobenzene 106
4-Bromofluorobenzene 76

METHOD 8020***
Analyzed by: JZL
Date: 09/28/94

Petroleum Hydrocarbons - Gasoline ND 0.1 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 66
4-Bromofluorobenzene 73

Modified 8015 - Gasoline
Analyzed by: JZL
Date: 09/28/94

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance. SPL California License # 1903

Handwritten signature of Brian Cobb
SPL, Inc., - Project Manager



Certificate of Analysis No. 9409861-11

EZ Serve Inc.
3550 North Loop West, #600
Houston, TX 77292
ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877
SITE: Hayward, CA
SAMPLED BY: Brown & Cadwell
SAMPLE ID: MW-6

PROJECT NO: 1574-04
MATRIX: WATER
DATE SAMPLED: 09/20/94 18:53:00
DATE RECEIVED: 09/22/94

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, and TOTAL VOLATILE AROMATIC HYDROCARBONS.

Surrogate % Recovery
1,4-Difluorobenzene 126
4-Bromofluorobenzene 113

METHOD 8020***
Analyzed by: JZL
Date: 09/29/94

Petroleum Hydrocarbons - Gasoline 11 1.0 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 101
4-Bromofluorobenzene 137 <

Modified 8015 - Gasoline
Analyzed by: JZL
Date: 09/29/94

(P) - Practical Quantitation Limit < - Recovery beyond control limits.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance. SPL California License # 1903

Handwritten signature of Brian Cobb
SPL, Inc., - Project Manager



Certificate of Analysis No. 9409861-12

EZ Serve Inc.
3550 North Loop West, #600
Houston, TX 77292
ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877
SITE: Hayward, CA
SAMPLED BY: Brown & Cadwell
SAMPLE ID: MW-3

PROJECT NO: 1574-04
MATRIX: WATER
DATE SAMPLED: 09/20/94 19:35:00
DATE RECEIVED: 09/22/94

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, and TOTAL VOLATILE AROMATIC HYDROCARBONS.

Surrogate % Recovery
1,4-Difluorobenzene 120
4-Bromofluorobenzene 78

METHOD 8020***
Analyzed by: JZL
Date: 09/29/94

Petroleum Hydrocarbons - Gasoline 8.2 1.0 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 86
4-Bromofluorobenzene 87

Modified 8015 - Gasoline
Analyzed by: JZL
Date: 09/29/94

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance. SPL California License # 1903

Handwritten signature of Brian Cobb
SPL, Inc., - Project Manager

QUALITY CONTROL DOCUMENTATION



Matrix: Aqueous
Units: ug/L

Batch Id: HP_R940928151900

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
Benzene	ND	50	50	100	54 - 126
Toluene	ND	50	49	98.0	61 - 125
EthylBenzene	ND	50	46	92.0	57 - 129
O Xylene	ND	50	45	90.0	32 - 160
M & P Xylene	ND	100	100	100	32 - 160

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits(***) (Advisory)	
			Result <1>	Recovery <4>	Result <1>	Recovery <5>		RPD Max.	Recovery Range
Benzene	35	20	53	90.0	56	105	15.4	19	61 - 131
Toluene	3	20	21	90.0	23	100	10.5	18	57 - 127
EthylBenzene	23	20	41	90.0	43	100	10.5	18	55 - 131
O Xylene	2	20	20	90.0	21	95.0	5.41	20	40 - 130
M & P Xylene	18	40	56	95.0	59	102	7.11	16	43 - 152

Analyst: JZL
Sequence Date: 09/28/94
SPL ID of sample spiked: 9409858-10A
Sample File ID: R__554.TX0
Method Blank File ID:
Blank Spike File ID: R__545.TX0
Matrix Spike File ID: R__546.TX0
Matrix Spike Duplicate File ID: R__547.TX0

* = Values Outside QC Range
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: SPL-Houston Historical Data
(***) = Source: SPL-Houston Historical Data

SAMPLES IN BATCH(SPL ID):

9409861-12A 9409861-07A 9409861-08A 9409941-04A
9409861-09A 9409862-08A 9409862-07A 9409862-06A
9409862-04A 9409862-03A 9409861-06A 9409861-11A
9409861-04A 9409861-03A 9409861-02A 9409861-10A
9409861-01A 9409858-09A 9409858-08A 9409858-10A

Idelis Williams, QC Officer



Matrix: Aqueous
Units: µg/L

Batch Id: HP_R940929104910

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
Benzene	ND	50	38	76.0	54 - 126
Toluene	ND	50	36	72.0	61 - 125
EthylBenzene	ND	50	33	66.0	57 - 129
O Xylene	ND	50	31	62.0	32 - 160
M & P Xylene	ND	100	75	75.0	32 - 160

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits(***) (Advisory)	
			Result <1>	Recovery <4>	Result <1>	Recovery <5>		RPD Max.	Recovery Range
			Benzene	7	20	34			
Toluene	23	20	58	175 *	68	225 *	25.0 *	18	57 - 127
EthylBenzene	4	20	27	115	28	120	4.26	18	55 - 131
O Xylene	7	20	30	115	34	135 *	16.0	20	40 - 130
M & P Xylene	19	40	74	138	84	162 *	16.0	16	43 - 152

Analyst: JZL
Sequence Date: 09/29/94
SPL ID of sample spiked: 9409879-01A
Sample File ID: R__592.TX0
Method Blank File ID:
Blank Spike File ID: R__581.TX0
Matrix Spike File ID: R__583.TX0
Matrix Spike Duplicate File ID: R__584.TX0

* = Values Outside QC Range
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: SPL-Houston Historical Data
(***) = Source: SPL-Houston Historical Data

SAMPLES IN BATCH(SPL ID):

9409941-03A 9409941-07A 9409879-02A 9409879-04A
9409879-08A 9409879-07A 9409879-06A 9409879-05A
9409941-04A 9409941-01A 9409861-05A 9409862-05A
9409862-01A 9409941-05A 9409862-02A 9409941-02A
9409879-01A 9409862-09A 9409862-10A

 Idelis Williams, QC Officer



Matrix: Aqueous
 Units: mg/L

Batch Id: HP_R940928184910

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
Petroleum Hydrocarbons	ND	5.0	6.0	120	56 - 139

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits(***) (Advisory)	
			Result <1>	Recovery <4>	Result <1>	Recovery <5>		RPD Max.	Recovery Range
Petroleum Hydrocarbons	ND	5.0	2.2	44.0	2.1	42.0	4.65	18	40 - 158

Analyst: JZL
 Sequence Date: 09/28/94
 SPL ID of sample spiked: 9409858-08A
 Sample File ID: RR_555.TX0
 Method Blank File ID:
 Blank Spike File ID: RR_548.TX0
 Matrix Spike File ID: RR_551.TX0
 Matrix Spike Duplicate File ID: RR_552.TX0

* = Values Outside QC Range
 NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
 ND = Not Detected/Below Detection Limit
 $\% \text{ Recovery} = [(\text{<1>} - \text{<2>}) / \text{<3>}] \times 100$
 $\text{LCS } \% \text{ Recovery} = (\text{<1>} / \text{<3>}) \times 100$
 $\text{Relative Percent Difference} = |(\text{<4>} - \text{<5>})| / [(\text{<4>} + \text{<5>}) \times 0.5] \times 100$
 (**) = Source: SPL-Houston Historical Data
 (***) = Source: SPL-Houston Historical Data

SAMPLES IN BATCH(SPL ID):

9409861-12A 9409861-07A 9409861-08A 9409941-04A
 9409861-09A 9409862-08A 9409862-07A 9409862-06A
 9409862-04A 9409862-03A 9409861-06A 9409861-11A
 9409861-04A 9409861-03A 9409861-02A 9409861-10A
 9409861-01A 9409858-09A 9409858-08A 9409858-10A

Idelis Williams, QC Officer



Matrix: Aqueous
Units: mg/L

Batch Id: HP_R940929123900

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
Petroleum Hydrocarbons	ND	5.0	5.3	106	56 - 139

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits(***) (Advisory)	
			Result <1>	Recovery <4>	Result <1>	Recovery <5>		RPD Max.	Recovery Range
Petroleum Hydrocarbons	ND	5.0	2.0	40.0	2.0	40.0	0	18	40 - 158

Analyst: JZL
Sequence Date: 09/29/94
SPL ID of sample spiked: 9409862-09A
Sample File ID: RR_591.TX0
Method Blank File ID:
Blank Spike File ID: RR_585.TX0
Matrix Spike File ID: RR_587.TX0
Matrix Spike Duplicate File ID: RR_588.TX0

* = Values Outside QC Range
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: SPL-Houston Historical Data
(***) = Source: SPL-Houston Historical Data

SAMPLES IN BATCH(SPL ID):

9409941-03A 9409941-06A 9409941-07A 9409879-02A
9409879-04A 9409879-08A 9409879-07A 9409879-06A
9409879-05A 9409941-01A 9409861-05A 9409862-05A
9409862-01A 9409941-05A 9409862-02A 9409941-02A
9409879-01A 9409862-09A 9409862-10A

 Idelis Williams, QC Officer

CHAIN OF CUSTODY
AND
SAMPLE RECEIPT CHECKLIST

CHAIN OF CUSTODY RECORD

940986B

BCA Log Number _____

Client name ISC-P.H.				Project or PO# 156A-04		Analyses required TPA(4) 4030/8015 1516A 4030 Hazardous sample Special handling required						
Address 3480 BUSKIEK AVE.				Phone # (510) 937-9010								
City, State, Zip PLEASANT HILL, CA. 94503			Report attention TODD MIBLER									
Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by KEVIN McIVENNA	Number of containers	Remarks						
1	9/20/94	1300	GW	MW-8	3	3						
2		1330		MW-10	3	3						
3		1417		MW-7	3	3						
4		1515		MW-9	3	3						
5		1455 1455		MW-1	3	3						
6		1650		MW-2	3	3						
7		1732		MW-4	3	3						
8		1812		MW-5	3	3						
9		1813		MW-5D	3	3						
10		1820	AQ	MW-6FB	3	3						
11		1853	GW	MW-6	3	3						
12		1935		MW-3	3	3						

Signature	Print Name	Company	Date	Time
	KEVIN McIVENNA	BROWN & CALDWELL-P.H.	9/21/94	1500
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by Laboratory		Blindage SCITAG	9/22/94	10:30

BC ANALYTICAL
 1255 Powell Street, Emeryville, CA 94608 (510) 428-2300
 801 Western Avenue, Glendale, CA 91201 (818) 247-5737
 1200 Gene Autry Way, Anaheim, CA 92805 (714) 978-0113

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
 Hazardous samples will be returned to client or disposed of at client's expense
 Disposal arrangements: _____

*KEY: WW—Wastewater SU—Surface Water SO—Soil
 SL—Sludge PE—Petroleum OT—Other
 NA—Nonaqueous GW—Groundwater AQ—Aqueous

SPL HOUSTON ENVIRONMENTAL LABORATORY

SAMPLE LOGIN CHECKLIST

DATE: 9/22/94 TIME: _____
LOT NO. _____

CLIENT NO. _____
CONTRACT NO. _____

CLIENT SAMPLE NOS. _____

SPL SAMPLE NOS.: 9409861

- | | <u>YES</u> | <u>NO</u> |
|--|-------------------------------------|-------------------------------------|
| 1. Is a Chain-of-Custody form present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Is the COC properly completed?
If no, describe what is incomplete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| _____ | | |
| _____ | | |
| If no, has the client been contacted about it?
(Attach subsequent documentation from client about the situation) | | |
| 3. Is airbill/packing list/bill of lading with shipment?
If yes, ID#: RDEX: 2704027585 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Is a USEPA Traffic Report present? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Is a USEPA SAS Packing List present? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6. Are custody seals present on the package?
If yes, were they intact upon receipt? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Are all samples tagged or labeled?
Do the sample tags/labels match the COC?
If no, has the client been contacted about it?
(Attach subsequent documentation from client about the situation) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8. Do all shipping documents agree?
If no, describe what is in nonconformity: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| _____ | | |
| 9. Condition/temperature of shipping container: 3C | INTACT | |
| 10. Condition/temperature of sample bottles: 3C | 9000 | |
| 11. Sample Disposal?: SPL disposal <input checked="" type="checkbox"/> Return to client <input type="checkbox"/> | | |

NOTES (reference item number if applicable): _____

ATTEST: Blinsall DATE: 9/22/94
DELIVERED FOR RESOLUTION: REC'D DATE: _____
RESOLVED: _____ DATE: _____