

3480 Buskirk Avenue Pleasant Hill. CA 94523-4342 P.O. Box 8045 Walnut Creek. CA 94596-1220 (510) 937-9010 FAX (510) 937-9026 H. 2007 String 22 Tot 2: 41

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.

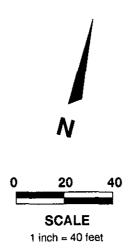
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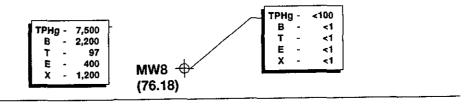
Toda Mill

TM/TKW:

Attachments

e:\ezacrve\100877\qtr-rpt.htr





4" Avenue

PLAN/	ATION	
 	LOCATION OF MONITORING WELLS INSTALLED BY OTHERS	TPHg
(87.00)	GROUNDWATER ELEVATION, SEPTEMBER 20, 1994	В
_	GROUNDWATER FLOW	T
	DIRECTION	E
1	GROUNDWATER SURFACE ELEVATION CONTOUR	x

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

	I	Well	Depth	Product	Groundwater		EPA Met	hods 8015 and	1 8020	
	Date	Elevation	to Water	Thickness	Elevation	_	Conce	entration (µg/	L)	
Well I.D.	Sampled	(feet)	(feet)	(feet)	(feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes
										ć 500
MW-1	5-Feb-92	96.73	20.82		75.91	46,000	76,000	23,000		6,500
	11-Sep-92		20.08	ı	76.65	48,000	9,000	1,200		4,600
	22-Dec-92		19.79		76.94	84,000	22,000	1,600		17,000
	3-Mar-93		16.23		80.50	54,000	16,000	1,600		4,300
	23-Jun-93	i	16.86	1	79.87	30,000	18,000	1,100		3,700
	30-Sep-93		18.04	l.	78.69	33,000	10,000	440	1	1,700
	6-Feb-94		18.15		78.58	64,000	18,000	1,600	1	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	.	Samp	ı le Not Analya	zed	
	30-Sep-93			Not Recorded	i		Wel	I Not Sample	đ.	,
	6-Feb-94		18.89	ļ	78.70	8,900	1,700	42	1,000	400
	20-Sep-94		21.50		76.09		, ₄ %			
MW-2	5-Feb-92	98.06	22.35		75.71	67,000	13,000	4,700	820	1,300
2.2	11-Sep-92	[21.67	•	76.39	57,000	9,000	1,400	1,200	8,400
	22-Dec-92		21.39	1	76.67	31,000	9,900	350	2,000	4,100
	3-Mar-93	i .	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	l .	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	1	22.17	ļ	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
2.2	11-Sep-92		21.13	l	76.53	9,400	1,200	180	550	1,100
	22-Dec-92		20.88		76.78		· ·		850	1,600
	3-Маг-93		17.29		80.37	ì i		1	570	900
	23-Jun-93		17.88	4	79.78		ł .		1,300	3,500
	30-Sep-93		19.18	1	78.48	ł				670
	6-Feb-94	i	19.21		78.45	·	· ·		1,500	2,900
	20-Sep-94		21.64	1	76.02	· ·				

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

MW-4 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 MW-5 5-Feb-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 MW-6 5-Feb-92 21-Sep-94 MW-6 5-Feb-92 21-Sep-94 20-Sep-94 MW-6 5-Feb-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94	Well	Depth	Product	Groundwater		EPA Met	hods 8015 and	1 8020	
MW-4 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 MW-5 5-Feb-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 MW-6 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94	Elevation	to Water	Thickness	Elevation		Conce	entration (µg/	L)	
11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 MW-5 5-Feb-92 211-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 MW-6 5-Feb-92 211-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94	(feet)	(feet)	(feet)	(feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes
11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 MW-5 5-Feb-92 211-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 MW-6 5-Feb-92 211-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94								ĺ l	
22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 MW-5 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-94 duplicate 20-Sep-94 MW-6 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94	97.10	21.31		75.79	16,000	2,700	410	1	3,400
3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 MW-5 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-94 duplicate 20-Sep-94 MW-6 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94		20.62		76.48	43,000	7,600	1,600		4,100
23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 MW-5 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-94 20-Sep-94 duplicate 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94	i	20.37		76.73	29,000	8,800	1,200		3,700
30-Sep-93 6-Feb-94 20-Sep-94 MW-5 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-94 duplicate 20-Sep-94 MW-6 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94	;	16.78	•	80.32	17,000	5,000	1,500	1	1,700
6-Feb-94 20-Sep-94 MW-5 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 MW-6 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94		17.45		79.65	5,700	3,000	120		790
MW-5 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-94 20-Sep-94 duplicate 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94	į	18.64		78.46	21,000	7,000	2,100	1 1	2,600
MW-5 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 MW-6 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94	1	18.59		78.51	24,000	7,200	1,600	I I	3,200
11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 duplicate 20-Sep-94 MW-6 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94		21.13		75.97	7,200	2,000	360	380	1,000
22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 duplicate 20-Sep-94 MW-6 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94	96.73	20.93		75.80	78,000	7,900	5,000	2,900	1,800
22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 duplicate 20-Sep-94 MW-6 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94	ĺ	20.27		76.46	49,000	4,700	400	1,400	4,100
3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94 20-Sep-94 duplicate 20-Sep-94 MW-6 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94	<u>'</u>	19.99		76.74	34,000	8,600	340	2,200	4,800
30-Sep-93 6-Feb-94 20-Sep-94 duplicate 20-Sep-94 MW-6 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94		16.49		80.24	22,000	7,500	640	1,300	3,400
30-Sep-93 6-Feb-94 20-Sep-94 duplicate 20-Sep-94 MW-6 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94		17.02		79.71	15,000	5,800	120	1,100	2,100
6-Feb-94 20-Sep-94 duplicate 20-Sep-94 MW-6 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94		18.25		78.48	25,000	7,600			4,400
duplicate 20-Sep-94 MW-6 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94	1	18.26		78.47	23,000	6,000	180	2,000	5,900
duplicate 20-Sep-94 MW-6 5-Feb-92 11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94		20.77	ļ	75.96	8,400	1,600	54	650	1,400
11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94				1	9,300	1,700	56	670	1,600
11-Sep-92 22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94	97.09	21.29		75.80	51,000	5,400	3,500	3,600	10,000
22-Dec-92 3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94	1	20.56	1	76.53	24,000	2,500		· · ·	2,300
3-Mar-93 23-Jun-93 30-Sep-93 6-Feb-94	ĺ	20.31		76.78	23,000	5,100		1 ' 1	3,100
23-Jun-93 30-Sep-93 6-Feb-94	1	16.83	ľ	80.26	18,000	4,400			2,400
30-Sep-93 6-Feb-94	I.	17.30	1	79.79	18,000	4,600			3,400
6-Feb-94		19.05		i i	,		le Not Analyz	, .	-,
		18.55		78.54	20,000	4,600			2,500
		21.05		76.04	11,000	2,000			760
MW-7 23-Jun-93	97.44	17.87		79.57	29,000	4,200	71	4,400	5,600
30-Sep-93	l	18.94		78.50					3,400
6-Feb-94		19.11	1)			le Not Analy:		2,400
20-Sep-94	(21.41		76.03					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	Depth	Product	Groundwater		EPA Metl	nods 8015 and	d 8020	
	Date	Elevation	to Water	Thickness	Elevation		Conce	entration (μg/	L)	
Well I.D.	Sampled	(feet)	(feet)	(feet)	(feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes
									!	
MW-8	23-Jun-93		17.64		79.97	350	43	9	1 1	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		1,100		15,000
	6-Feb-94		17.07		78.34	43,000		460		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		12	1 ' 1	680
	6-Feb-94		18.61		78.50	2,000		12		120
	20-Sep-94		21.15		75.96	2,800		16		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.

Well Diameter	Gallons/linear foot
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 it's 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

<u>Instrument calibration</u>. 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.

<u>Trip Blank.</u> 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	CLIENT: EZ-SERV	
LOCATION: GARDEN AVE. C A'ST - HAYWARD CA	CONTACT: TODO MILLER	
JOB NO: 1564-04	PHONE: 210-2278	
DATE: 9-20-94	SECONDARY:	
PROJ. MGR: TOM WHEELER	PHONE:	
FIELD PERSONNEL: MCINENUA		
a. C.T.	(NO) WEATHER: CUEAR, WARMIN	<u> </u>
	pH 4.0 = 4.0 pH 7.0 = 7.	-
conductivity instrument: YSi #3500	SER. NO: INTERNAL CALIBRA	
OTHER INSTRUMENTATION: ORS OIL/WATER INTERFACE		
* NO WELLS HAVE FOOT VAL		·
Dag	y use 3 tom 1 and 4 tours 1 to 100 at 1 to 100 at 1 to 100 at 100	
YOURO - ARRIVE BC-CONCORD, PICK OF TRAILE	R/REPAIRED FLAT), COOLER W/1	BOTTLES 9-ICE
EVER LEAVE FOR STE	The state of the s	
3)0905 ARRIVE SITE, MEET W/ TO'N WHEELE	e tour site, mark were	WO PAUGE
SPRAY PAINT TUVENTORY SITE IS	OVERGROWN W/ THISTLES, SC	ATTEREZ W/
KOW WATER - WILL PLA	-55 GAL DRUMS ON SITE AT	C GATE
4)1012 - BEGIN TAKING SWILL TID * SEE SEPE	PATE SHEET	
5)145 - COMPLETE SIUS	to a grant hard garden and the grant of the	ance of fine to a com-
WIZ35 -BEGIN PURGING MW-8	i di an inglis i sant mana an	a man francis and a man a
7)1300 SAMPLE MW-B	mily reconstruction of the contract of the con	ta de la companya de
2)1308 - BEGIN PURGING MW-10		me and the second
9) 1330-SAMPLE MW-10	a magain à angus agus agus agus agus agus agus agus a	en e e e e e e e e e e e e e e e e e e
191343 BEGIN SAMPUNG MIN-7	the second of th	a company of the company of the
10 1417 - SAMPLE MW-7		
131445 -BEGIN PURGINGHIN -9		man in the same of
13/5/5-SAMPUT: MN-9		* * * * * * * * * * * * * * * * * * *
M) 1583 BEGIN PORGING WW. J	handler from manus processed as well as a second constraint of aspectation of aspectation of a second constraint.	According to a special framework of manages and a fine of the second state of the seco
15) 1505 - SAMPLE MW-1		
10 1610 - BEGIN PURGING MW-2	and the second s	a vicentum miner mineral me antique de constituent e dans
18 1700 - BEGIN PUZGING MW-4:		
A) 1732 - SAMPLE MW-4		
201745-BEGIN PURGING MW-5	a a managamata ayuuquun ahaan ahaa uu a a a a a a a a a a a a a a a a a	······································
11)1812- SAMPLE MW-5, A DUPLICATE # MW-5	D	
201820-COLLECT FIELD BLANK # MW 6FB		o s da e è de caractería de constante de con
23) 1823- BEGIN FURGING MWTG 24) 1853-SAMPLE MW-6	and the second s	
25) 1904-BEGIN PURGING MW-3		
(2) 1935-SAMPLE MW-3		0
1995-LEAVE SITE		
		me a se o a o a a a a a a a a a a a a a a a a
		SHEET NO.
EZ-SERV HAYWARD, YA TRUN Y	10N.TORING	9-20-94
JOB NUMBER SUBJ	IECT	DATE



BROWN & CALDWELL WELL INFORMATION DATA

JOB NAME: EZ-SERV

B&C PERSONNEL: MCIIVEUNA

WEATHER: WERCAST-68°F

INSTRUMENT: ORS OIL/WATER INTERFACE

DATE: 9-20-94___

JOB #: <u>1564-64</u>

LOCK TYPE: EMCO-WHERTOL

LID TYPE:____

WELL ID	SWL	TD	DIA	TIME	COMMENTS
MW-8	21.43	32.15	Z"	1012	PARK LOT OF SHOPPING CENTER ON A'ST.
MW-6	21.05	32.10	4"	1041	NO ODOR, BAILER IN WELL
MW-7.	21.41	30.06	2"	1135	
AND 8					Kim
MW-9	19.61	31.60'	2"	1018	TO IN PROUT OF 503 A' ST. BAILER IN WELL
MW-10	11.15	31.80	z"	1145	SOUTH SIDE OF A'ST. NO ODOR, FANCEZ IN WELL
MW-IA	21.50	28,40'	2"	1032	BAILER IN NEW, OT FREE PRODUCTS
MW-I	2059	32.10	4"	1102	NO ODOR, BAILEZ IN WELL
MW-2.	22.17	32.30'	4"	1107	NO UDOK
MN-3.	21.69	32.10	4"	1174	ODOR, BAILER IN DELL, 3/8"TUBING IN WELL- ODOR, PRODUCT SHEEN COVER
MW-4	21.13'	32.11	4"	1116	FREL ODOR, BAILER DOWNHOLE IN WELL
MW-5	20:77	32.48	4'	1055	BAILEZ IN NOW, NO ODOR
	-	-			
	_	-	-		
		-			
	-	-	-		
	_	_	-		
	_		-		
	_ !	_	_	.	

				UNDWATER SA					
Location:	GARDE!	N AVE	FIA'S	<u>St. </u>			Date:		14
2. WELL 1 a. Purge M b. Require c. Field Te d. Pump R e. Method	water (ft) ell Depth of Water (ft) Volume of filter pa ock volume WELL V PURGING lethod d Purge V esting; Equate of GW D	Column Cok Column C	$= \frac{2}{3}$ $= \frac{3}{11}$ $= \frac{7}{11}$ $= \frac{6}{11}$ $= \frac{1}{11}$ $= $	1.05' 02.10' 1.05' (b a.) 1.86 (c. x [gs 0' 0.870 (e. x [gs 46 (d. + f. H W WAT allons per well ve (51 # 3500) GAL DIZI), Medium (90%	al/ft filter pack ERZA Olume) = A Olume = A Olume = A	ZGAL :, TEMP,		"× 8"	
Volume Removed (gal)	Time	T⁰c	Hq	Spec. Conductivity	Turbidity (NTU's)	De	Color/ scription	SWL	Pump Placement
	1823	44.0		253		PUMP (321
14	18:31	12.0		1.259			FLEILDER FINE SKITS	WESID_	30
7%	1839	220	6.51	1,271	<u> </u>		CIEARER	 	
42	1847	22,1	6.47	1,266		SAME			
	1853	70.3	6.47	1,254		SAMPLI	<i>z</i> D		
3. SAMPI			Analysi	DISP. BAILE SIPH(G), SET FIELD B	8015, B	TEX	VOA Preserva	ation <u>HC</u>	L

			OKC	DUNDWATER S.	AMPLE COL	LECTION RECU			
					Job No.: 1	564-04	Date: _	9-20-	14
Location:				7,		 			
Samplers Na									
Weather Cor	nditions: _	l'LE	AZ, WA	KM-750F				·····	
1. WATER	LEVEL. T	ATA: (from TOC	······································		Т	OC Elevation (fi	rom LS) _	<u>-</u>
a. Depth t		•		077		W	ater Table Elev	•	· · · · · · · · · · · · · · · · · · ·
b. Total V	-	-		2.48		T	ape Corr. (TC) Vell Dia		
c. Length	_			1,71' (b a.)	•	v	Vell Dia	"X8"	
d. Casing			`					-	'
_			=	10' (c. x [g	ai/it casingj)		2-in. casing		=0.16 gal/ft
e. Length	-						4-in. casing 6-in. casing		=0.65 gal/ft =1.47 gal/ft
f. Filter p				0.870 (e. x [g		:K])	6.5-in. casin		= 1.7 gal/ft
g. TOTA	L WELL	VOLUM	AE =/	<u>4.43g </u> (d. + f	.)		8-in. casing	_	= 2.60 gal/ft
				·			10-in. casing		= 4.1 gal/ft
2. WELL	PURGING	G DATA	·	1			12-in, casing	<u> </u>	= 5.0 gal/ft
a. Purge h	Method		"IRAS	+ W/ WATE	PRA				
b. Require	ed Purge V	olume (@ <u>14.43</u> g	allons per well v	olume) = <u></u>	3,29 GAL			
c. Field T	esting; Eq	uipment	Used	YS1#3500	PH, S.C.	TEMP.			
d. Pump F									
e. Method	of GW D	isposal	55	GAL DRU,	n				
						Fast (90% < 10 m	i n)		
			i i		1		· · · · · · · · · · · · · · · · · · ·		
					1				
Volume Removed			J	Spec.	Turbidity	Col	or/		Pumo
Volume Removed (gal)	Time	T⁰c	рН	Spec. Conductivity	Turbidity (NTU's)	Col Descri		SWL	Pump Placement
Removed	1745			Conductivity	Turbidity (NTU's)	PUMP ON	ption	SWL	Placement
Removed				Spec. Conductivity	Turbidity (NTU's)	Described Pump ON SLIGHTLY CO.	OUDY FINE	SWL	Pump Placement
Removed (gal)	1745			Conductivity	Turbidity (NTU's)	Described Pump ON SLIGHTLY CO.	OUDY FINE	SWL	Placement
Removed (gal)	1745	20,9 20,9	6.41 6.41	Conductivity 1 239 1,240	Turbidity (NTU's)	Described Pump ON SLIGHTLY CO. SILTS FUEL CLEANER, CL	OUDY FINE CHEE	SWL	Placement
Removed (gal)	1745 1752 1759 1806	20:9 20:9 20:2	6.41 6.41 6.47	Conductivity 1 2 3 9 1,240 1,239	Turbidity (NTU's)	Description Runp ON SLIGHTLY CO SICTS, FUEL CLEANER, CL SAYME	ODY FINE CHOR EALER	SWL	Placement
Removed (gal)	1745 1752 1759	20.9 20.9 20.2	6.41 6.41	Conductivity 1 239 1,240	Turbidity (NTU's)	Described Pump ON SLIGHTLY CO. SILTS FUEL CLEANER, CL	ODY FINE CHOR EALER	SWL	Placement
Removed (gal)	1745 1752 1759 1806	20:9 20:9 20:2	6.41 6.41 6.47	Conductivity 1 2 3 9 1,240 1,239	Turbidity (NTU's)	Description Runp ON SLIGHTLY CO SICTS, FUEL CLEANER, CL SAYME	ODY FINE CHOR EALER	SWL	Placement
Removed (gal)	1745 1752 1759 1806	20:9 20:9 20:2	6.41 6.41 6.47	Conductivity 1 2 3 9 1,240 1,239	Turbidity (NTU's)	Description Runp ON SLIGHTLY CO SICTS, FUEL CLEANER, CL SAYME	ODY FINE CHOR EALER	SWL	Placement
Removed (gal)	1745 1752 1759 1806	20:9 20:9 20:2	6.41 6.41 6.47	Conductivity 1 2 3 9 1,240 1,239	Turbidity (NTU's)	Description Runp ON SLIGHTLY CO SICTS, FUEL CLEANER, CL SAYME	ODY FINE CHOR EALER	SWL	Placement
Removed (gal)	1745 1752 1759 1806	20:9 20:9 20:2	6.41 6.41 6.47	Conductivity 1 2 3 9 1,240 1,239	Turbidity (NTU's)	Description Runp ON SLIGHTLY CO SICTS, FUEL CLEANER, CL SAYME	ODY FINE CLOCK EALER	SWL	Placement
Removed (gal) 14.5 29 44	1745 1752 1759 1806 1812	20.9 20.9 20.2 !9.7	6.41 6.41 6.47 6.47	Conductivity 1 2 3 9 1,240 1,239 1,207	(NTU's)	Descriped on Science of Fund on Science of Fund of Culture of Cult	Ption CLOCK EAKER		Placement 32
Removed (gal) 14.5 29 44	1745 1752 1759 1806 1812	20.9 20.9 20.2 !9.7	6.41 6.47 6.47 Method	Conductivity 1 239 1,240 1,239 1,207 DISP. BAILER	(NTU's)	Description Runp ON SLIGHTLY CO SICTS, FUEL CLEANER, CL SAYME	Ption CLOCK EAKER		Placement 32
Removed (gal) 14.5 29 44	1745 1752 1759 1806 1812	20.9 20.9 20.2 !9.7	6.41 6.47 6.47 Method	Conductivity 1 2 3 9 1,240 1,239 1,207	(NTU's)	Descriped on Science of Fund on Science of Fund of Culture of Cult	Ption CLOCK EAKER		Placement 32
Removed (gal)	1745 1752 1759 1806 1812	20.9 20.9 20.2 19.7	6.41 6.47 6.47 Method	1,240 1,240 1,239 1,207 1,207 DISP. BAILER	Containe	Description FUMP ON SLIGHTLY CLE SICTS FUEL CLEANER, CLE SAME SAMPLED The state of the st	Ption CLOCK EAKER		Placement 32
Removed (gal) 14.5 29 44	1745 1752 1759 1806 1812	20.9 20.9 20.2 19.7	6.41 6.47 6.47 Method	Conductivity 1 239 1,240 1,239 1,207 DISP. BAILER	Containe	Description FUMP ON SLIGHTLY CLE SICTS FUEL CLEANER, CLE SAME SAMPLED The state of the st	Ption CLOCK EAKER		Placement 32

				UNDWATER SA					· · · · · · · · · · · · · · · · · · ·
ocation:	GAE	CIVE 1°IIVE	A'ST., FUNA	HAYWARD	Job No.: _	564-04	Date:	9-20-9	4
well is a. Purge M b. Require c. Field Te d. Pump R e. Method	o water (ft fell Depth of Water (ft Volume of filter pa uck volume WELL PURGING fethod d Purge V esting; Equate of GW D	Column Column	$= \frac{7}{3}$ $= \frac{10}{6}$ $= \frac{6}{13}$ $= \frac{1}{12}$ $= \frac{1}{13}$ $= \frac{1}{12}$ $= \frac{1}{13}$ $= $	2.10' 0.46' (b a.) .79 g (c. x [g: 0' 0.86g (e. x [g: 0.58g (d. + f. 34 W/WATI allons per well v 1/51 #3500	al/ft casing]) al/ft filter pac $EPRA$ $olume) = A$ $pH, S, C.$	k]) 0.76 GAL TEMP,	TOC Elevation (from Water Table Elev.) Tape Corr. (TC) Well Dia. 4" 2-in. casing 4-in. casing 6-in. casing 6.5-in. casing 10-in. casing 12-in. casing	x 8''	=0.16 gal/ft =0.65 gal/ft =1.47 gal/ft =1.7 gal/ft =2.60 gal/ft = 4.1 gal/ft = 5.0 gal/ft
Volume Removed (gal)	y Rate: S	low (909 T%c	6 > 60 min), Medium (90% Spec. Conductivity	Turbidity (NTU's)		Color/ ecription	SWL	Pump Placemen
Þ	1904					-PUMP O			
14	1912	21.4	6.61	1,277			S. FUEL OPOR		32
78	1920	21,2	6,61	1.161			CLEARER		
42	1928	21.4	663	1,181		SAME			
	1935	19.4	6,5%	1,153		Sampa	éb		
							1	A4.	
. SAMPI			: Method Analysi	DISP. BAILE S IPH (G)	2015 B	er <u>5-40 m</u> STEX	VUA Preserva	tion <u>H</u>	<u>-レ</u>

				OUNDWATER SA				(x -70 - C	24
				:D					
				TREET HAVE	JARD				,
mplers Nar	ne: <u>M</u>	TIVE	ANN						
eather Con	ditions:	CLEAR	c, WARA	1-78°F					
						Т	OC Elevation (fr	om LS) _	,
WATER		•				V	ater Table Elev.	·	H=1.
a. Depth to				20.77		Т	ape Corr. (TC)		
b. Total W	ell Depth		=	32.11°		v	ape Corr. (TC) Vell Dia	<u> 1"-8"</u>	, <u></u>
				11.34' (b a.)					
d. Casing				7,37g_ (c. x [g:	al/ft casing])		2-in. casing		== 0.16 gal/ft
e. Length	•			101			4-in. casing 6-in. casing		== 0.65 gal/ft == 1.47 gal/ft
				0.87g (e. x [g		KJ)	6.5-in. casin	g	== 1.7 gal/ft
g. TOTAI	L WELL	VOLUM	E =	4.74 g (d. + f.	.)		8-in. casing 10-in. casing		== 2.60 gal/ft == 4.1 gal/ft
							10-in. casing	•	= 4.1 gal/ft $= 5.0 gal/ft$
WELL:	PURGINO	DATA	: 11771	SH W/WAT	TERPA				
a. Purge M	iethod		- 10-70	" "	A	4.77 (-01			
b. Require	d Purge V	olume (@ #1.#18	gallons per well v	$\text{Olume}) = \underline{}$	TELP			/
c. Field To				SI # 3500	ph, sici	EPG.			
d. Pump R				GAL NEW					
d. Pump R	of GW D	isposal _	55	GAL DRU	M 20 60 -in)	Fast (00% < 10 n	uin) >		
d. Pump R	of GW D	isposal _	55	994 DRU/ 1), Medium (90%	30-60 min)	Fast (90% < 10 n	nin)	T	
d. Pump R e. Method f. Recover	of GW D	isposal _	55	n), Medium (90%	30-60 min)				Pump
d. Pump R e. Method f. Recover	of GW D	isposal _	55	GAL DEVI n), Medium (90% Spec. Conductivity	30-60 min) Turbidity (NTU's)	Co Descr	lor/ iption	SWL	Pump Placement
d. Pump R e. Method f. Recover Volume Removed	of GW D ry Rate: Si	isposal _ low (909	55 %>60 mir	n), Medium (90%) Spec.	30-60 min)	Co Desci PUMP ON	lor/ iption	SWL	Placement
d. Pump R e. Method f. Recover Volume Removed	of GW D ry Rate: S	isposal _ low (909 T ^o c	55 %>60 mir	n), Medium (90%) Spec.	30-60 min)	Co Descr	lor/ iption	SWL	
d. Pump R e. Method f. Recover Volume Removed (gal)	of GW D ry Rate: S Time	isposal _ low (909 	55 %>60 mir pH	Spec. Conductivity	30-60 min)	CO Descr PUMP ON SOME SLIGHT FUEL ODOR SAME	lor/ iption	SWL	Placement
d. Pump R e. Method f. Recover Volume Removed (gal)	of GW D ry Rate: Si Time 1700 -	T°c 70,4 20,4	55 6>60 mir pH 6.62 6.60	n), Medium (90% Spec. Conductivity	30-60 min)	CO Descr PUMP ON SIMME SULGHT FUEL ODOR SAME SAME	lor/ iption Glevbidg FINE SILTS	SWL	Placement
d. Pump R e. Method f. Recover Volume Removed (gal)	of GW D ry Rate: Si Time 1700 - 1708 1716	T°c 70,4 20,4	55 6>60 mir pH 6.62 6.60	Spec. Conductivity 1,72-5 1,23 1,271	30-60 min)	CO Descr PUMP ON SOME SLIGHT FUEL ODOR SAME	lor/ iption Glevbidg FINE SILTS	SWL	Placement
d. Pump R e. Method f. Recover Volume Removed (gal)	Time 1700 - 1716 1724	T°c 70,4 20,4	55 6>60 mir pH 6.62 6.60	Spec. Conductivity 1,785	30-60 min)	CO Descr PUMP ON SIMME SULGHT FUEL ODOR SAME SAME	lor/ iption Glevbidg FINE SILTS	SWL	Placement
d. Pump R e. Method f. Recover Volume Removed (gal)	Time 1700 - 1716 1724	T°c 70,4 20,4	55 6>60 mir pH 6.62 6.60	Spec. Conductivity 1,72-5 1,23 1,271	30-60 min)	CO Descr PUMP ON SIMME SULGHT FUEL ODOR SAME SAME	lor/ iption Glevbidg FINE SILTS	SWL	Placement
d. Pump R e. Method f. Recover Volume Removed (gal)	Time 1700 - 1716 1724	T°c 70,4 20,4	55 6>60 mir pH 6.62 6.60	Spec. Conductivity 1,72-5 1,23 1,271	30-60 min)	CO Descr PUMP ON SIMME SULGHT FUEL ODOR SAME SAME	lor/ iption Glevbidg FINE SILTS	SWL	Placement
d. Pump R e. Method f. Recover Volume Removed (gal)	Time 1700 - 1716 1724	T°c 70,4 20,4	55 6>60 mir pH 6.62 6.60	Spec. Conductivity 1,72-5 1,23 1,271	30-60 min)	CO Descr PUMP ON SIMME SULGHT FUEL ODOR SAME SAME	lor/ iption Glevbidg FINE SILTS	SWL	Placement
d. Pump R e. Method f. Recover Volume Removed (gal)	Time 1700 1708 1716 1729 1732	T°c 70,4 20,4 18,6	55 6>60 mir pH 6.62 6.62 6.64	Spec. Conductivity 1, 22-5 1, 28-3 1, 27-1 1, 25-3	Turbidity (NTU's)	CO Descri PUMP ON SOME SUIGHT FUM ODOR, SAME SAME SAMPLE!	lor/ iption Gueriking, five Sicts		Placement
d. Pump R e. Method f. Recover Volume Removed (gal)	Time 1700 1708 1716 1729 1732	T°c 70,4 20,4 18,6	55 6>60 mir pH 6.62 6.62 6.64	Spec. Conductivity 1, 22-5 1, 28-3 1, 27-1 1, 25-3	Turbidity (NTU's)	CO Descri PUMP ON SOME SUIGHT FUM ODOR, SAME SAME SAMPLE!	lor/ iption Gueriking, five Sicts		Placement
d. Pump R e. Method f. Recover Volume Removed (gal)	Time 1700 1708 1716 1729 1732	T°c 70,4 20,4 18,6	55 6>60 mir pH 6.62 6.60 6.64	Spec. Conductivity 1, 28-5 1, 28-5 1, 28-3 1, 27-1 1, 25-3	Turbidity (NTU's)	CO Descri PUMP ON SIME SLIGHT FUEL ODER SAME SAME SAMFLET	lor/ iption Gueriking, five Sicts		Placement
d. Pump R e. Method f. Recover Volume Removed (gal) 15 30 45	Time 1700 - 1708 1716 1729 1732	T°c 70,4 20,4 18,6	55 6>60 mir pH 6.62 6.60 6.64	Spec. Conductivity 1, 22-5 1, 28-3 1, 27-1 1, 25-3	Turbidity (NTU's)	CO Descri PUMP ON SIME SLIGHT FUEL ODER SAME SAME SAMFLET	lor/ iption Gueriking, five Sicts		Placement
d. Pump R e. Method f. Recover Volume Removed (gal)	Time 1700 - 1708 1716 1729 1732	T°c 70,4 20,4 18,6	55 6>60 mir pH 6.62 6.60 6.64	Spec. Conductivity 1, 28-5 1, 28-5 1, 28-3 1, 27-1 1, 25-3	Turbidity (NTU's)	CO Descri PUMP ON SIME SLIGHT FUEL ODER SAME SAME SAMFLET	lor/ iption Gueriking, five Sicts		Placement

			GRO	OUNDWATER SA	AMPLE COL	LECTION REC	ORD		
roject Name	EZ:	-SERV	IE, HA	YWARD	Job No.:	1564-04	Date:	9-20-	94
ocation:	GARD	EN A	EXX	ST. HAYL	JARD				
amplers Nar	ne:	MCII	VENNA	,					1 100 100 100
eather Con	ditions: _	Cl	EAR	WARM- 78	F				
						•	TOC Elevation (fro	om LS) _	
. WATER		-				,	Water Table Elev.		
a. Depth to	-	-		22.17			Tape Corr. (TC)		
b. Total W				4			Well Dia4"	<u> </u>	
c. Length				0 13' (b a.)				<u> </u>	
d. Casing				0.58g (c. x [gi	ai/it casingj)		2-in. casing		=0.16 gal/ft
e. Length	of filter p	ack	=			1.2\	4-in. casing 6-in. casing		= 0.65 gal/ft $= 1.47 gal/ft$
-				180g (e. x [g		k])	6.5-in. casing		=1.7 gal/ft
g. TOTAI	L WELL	VOLUM	$\mathbf{E} = \underline{I}$	<u>1.98g</u> (d. + f.	.)		8-in. casing		=2.60 gal/ft
							10-in. casing 12-in. casing		= 4.1 gal/ft $= 5.0 gal/ft$
	PURGIN			م	CDDJ.				
a. Purge M			TICA	SH W/WM	ERICK	VO CA (A)			.,
b. Require	d Purge V	Volume (@ 19.98 &	gallons per well v	olume) =	59,44 GAL	<u></u>		
c. Field Te	esting; Eq	uipment	Used	151 # 3500	DH, S.C	, jem.			
d. Pump R							,		
				GAL DR				···	
f. Recover	y Rate: S	low (909	% > 60 mir	n), Medium (90%	30-60 min),	Fast (90% < 10	min)		
Volume Removed (gal)	Time	T°c	На	Spec. Conductivity	Turbidity (NTU's)		olor/ cription	SWL	Pump Placement
\E,sa1/	1610		P.1	0011011111		PUMP C	N		
20	1618	120	455	1,365		SOME CLOUD FUEL OPOR	ING. FINE SILTS		32'
40	1626	22.2	158	1,371			PER, FUEL OIDER		1
	1634	21,1	6.59	1,346		SAME			
60	1650	1	T	1,298		SAMPLE		-	
	1000	19.5	6.60	1,00		1			<u> </u>
			 				<u> </u>		<u> </u>
	 	 							1
									
		<u> </u>						<u> </u>	Ц
				1.50		2.40	lin 4 m	. 11.	C I
. SAMPI	E COLL	ECTION	: Method	PISK DAIC	El Contain	or J'TUMC	VOA Preservat	tion	<u> </u>
			Analys	is TPH(G)	, DIEX,	4015			
COMMENT	S, REM	ARKS							
					<u></u>				

Well	No	MW-1
44 011	110.	

			GRO	UNDWATER 3/	MPLE COL	LECTION RECO	KD		
oject Name	: FZ-	SERV	1 HAY	WARD	Job No.: 15	564-04	Date: _	9-20-	94
cation:	ARDEN	J AVE.	4 'A' <	ST. HAYNAR	<u> </u>	<u>-</u>			
mplers Nan				,					
eather Conc	ditions:	CLEP	AR, WA	1RM-77°F					
NA CONTROL		AMA (6	TOC			T	OC Elevation (fr	om LS) _	
WATER I		,		20.59		w	ater Table Elev.		
a. Depth to	•					Ta	pe Corr. (TC) Vell Dia4	13	
b. Total W	=			3 <u>2.10'</u> 1.51' (b a.)		W	ell Dia. <u>4</u>	<u>"x &"</u>	
c. Length			=	[. // (b a.) [. d.@	***				<u> </u>
d. Casing			=	1.48 _G (c. x [g:	ii/ft casing])		2-in. casing		=0.16 gal/ft
e. Length	•					-	4-in. casing 6-in. casing		=0.65 gal/ft = 1.47 gal/ft
f. Filter pe			=	6.86g (e. x [gi	al/ft filter pac	k])	6.5-in. casing		=1.7 gal/ft
g. TOTAI	WELL '	VOLUM	$\mathbf{E} = \underline{I}$	<u>4,30g</u> (d. + f.)		8-in. casing		=2.60 gal/ft
				, and the second			10-in. casing		= 4.1 gal/ft $= 5.0 cal/ft$
	PURGING			/			12-in, casing		= 5.0 gal/ft
a. Purge M	lethod	TRA	15H W/	WATERRA				-	
b. Require	d Purge V	olume (o <u>14.3 </u> g	allons per well v	olume) = $\underline{\mathcal{A}}$	2,91 GAL		·	
c. Field Te	esting; Equ	ipment	Used}	51# 3500	PH, SC, T	EMP			
d. Pump R					· , ,				
				GAL DRU	m				
e. Method	of GW D								
		-	6 > 60 min	i), Medium (90%	30-60 min),	Fast (90% < 10 m	in)		
		-	6 > 60 min	Spec. Conductivity	30-60 min), Turbidity (NTU's)	Fast (90% < 10 m Col Descr	or/	SWL	Pump Placement
f. Recover Volume Removed	y Rate: Si	ow (909		Spec.	Turbidity	Col Descr	or/ iption		Pump Placement
f. Recover Volume Removed (gal)	y Rate: Si	ow (909	рН	Spec. Conductivity	Turbidity	Col Descr Funt OI CLEAN, CLEAN	or/ ption J SCIGHT		Pump Placement
Volume Removed (gal)	Time	ow (909 T°c	рН 6,37	Spec. Conductivity	Turbidity	Col Descr FUMP OI CLEAM, CLEAM	or/ iption		Placement
Volume Removed (gal)	Time 1540 1548	T°c 21.5 21.4	pH 6.37 6.32	Spec. Conductivity	Turbidity	Col Descr - FUMP OI CLEAN CLEAN SAME	or/ ption J SCIGHT		Placement
Volume Removed (gal)	Time 1555	T°c 71.5 71.4 71.7	рН 6,37	Spec. Conductivity	Turbidity	Col Descr FUMP OI CLEAM, CLEAM	or/ iption J SCIGHT IELOISER		Placement
Volume Removed (gal)	Time 1535 1540 1555	T°c 71.5 71.4 71.7	рН 6.37 6.32 6.35	Spec. Conductivity 1,767 1,268 1,270	Turbidity	Col Descr - FUMP OI CLEAM CLEAM SAME SAME	or/ iption J SCIGHT IELOISER		Placement
Volume Removed (gal)	Time 1535 1540 1555	T°c 71.5 71.4 71.7	рН 6.37 6.32 6.35	Spec. Conductivity 1,767 1,268 1,270	Turbidity	Col Descr - FUMP OI CLEAM CLEAM SAME SAME	or/ iption J SCIGHT IELOISER		Placement
Volume Removed (gal)	Time 1535 1540 1555	T°c 71.5 71.4 71.7	рН 6.37 6.32 6.35	Spec. Conductivity 1,767 1,268 1,270	Turbidity	Col Descr - FUMP OI CLEAM CLEAM SAME SAME	or/ iption J SCIGHT IELOISER		Placement
Volume Removed (gal)	Time 1858 1840 1648 1655	T°c 21.5 21.4 21.2 19.8	pH 6,37 6,32 6,35 6,40	Spec. Conductivity 1,767 1,268 1,270 1,231	Turbidity (NTU's)	Col Descr Funt OI CLEAM CLEAN SAME SAME SAME	or/ iption Scient	SWL	Placement 30'
Volume Removed (gal)	Time 1858 1840 1648 1655	T°c 21.5 21.4 21.2 19.8	pH 6.37 6.32 6.35 6.40	Spec. Conductivity 1,767 1,768 1,770 1,731	Turbidity (NTU's)	Col Descr Funt OI CLEAN CLEAN SAME SAME SAMFIEL	or/ iption Scient	SWL	Placement 30'
Volume Removed (gal)	Time 1858 1840 1648 1655	T°c 21.5 21.4 21.2 19.8	pH 6.37 6.32 6.35 6.40	Spec. Conductivity 1,767 1,268 1,270 1,231	Turbidity (NTU's)	Col Descr Funt OI CLEAN CLEAN SAME SAME SAMFIEL	or/ iption Scient	SWL	Placement 30'

			GRO	UNDWATER SA	MPLE COL	LECTION RECORD	-		
	ARDEL	JEA'S	ST. HA SUUA	YWARD	Job No.: <u> </u>	564-04		20-9	4
a. Purge M b. Require c. Field Te d. Pump R e. Method	water (fitell Depth of Water (Volume of filter pack volume). WELL PURGING fethod d Purge Vesting; Equate of GW D	Column ack e VOLUM Jolume (uipment J.3 6	= 3 = 3 = 1 = 3 E = 7 : If	9.61° 1.99° 1.99° 1.99° 1.99° 1.99° 1.919°	al/ft casing]) al/ft filter pace) WATERR, colume) = _Z DH, SA	Water T Tape Co Well Di 2-i 4-i 6-i 6.5 8-i 10 12	able Elev. orr. (TC) a. 7' × 0 n. casing n. casing n. casing i-in. casing i-in. casing i-in. casing i-in. casing	6.5	= 0.16 gal/ft = 0.65 gal/ft = 1.47 gal/ft = 1.7 gal/ft = 2.60 gal/ft = 4.1 gal/ft = 5.0 gal/ft
Volume Removed (gal)	Time	T°c	рН	Spec. Conductivity	Turbidity (NTU's)	Color/ Description		WL	Pump Placement
	1445					PUMP ON	LODOP		
7.5	1452	23.4		1.371		GREEN-BROWN, FUE FINE SAUS SICT CLEANER, CLEARE	3		
15	1458	22,7		1,317					
23	1505	22,7	6.45	1,312		SAME SAMPLED			
	1515	10.5	10.19	1,215		Skmi 1013			
3. SAMPI			: Method Analysi	s TPH/G	7) BIEX	= 3-40ml VOA 1,8015 S COCK	Preservation	HCC	

			GRO	UNDWATER SA	MPLE COL	LECTION RE	CORD		
Location:	GARDE ne: <u>M</u>	N AVE	INA	ARD ST., HAYW ARM-77°1	ARD, CA		Date: _	-20-94	<u> </u>
a. Depth to b. Total W c. Length o d. Casing e. Length o f. Filter pa g. TOTAL 2. WELL 1 a. Purge M b. Require c. Field Te	LEVEL D water (ft fell Depth of Water (Volume of filter pa wk volum WELL PURGING fethod d Purge V esting; Eq	ATA: (fi	rom TOC) =	1.15 (b a.) 1.80' 1.66' (b a.) 1.70 (c. x [gi	al/ft casing]) al/ft filter paci	1.48 GA	TOC Elevation (from Water Table Elev.) Tape Corr. (TC) Well Dia. 2-in. casing 4-in. casing 6-in. casing 6.5-in. casing 10-in. casing 12-in. casing	X 6.5	= 0.16 gal/ft = 0.65 gal/ft = 1.47 gal/ft = 1.7 gal/ft = 2.60 gal/ft = 4.1 gal/ft = 5.0 gal/ft
	of GW D y Rate: S	isposal low (909	55	Spec.	30-60 min), Turbidity		O min)		Pump
(gal)	Time 1308-	T°c _	pH	Conductivity	(NTU's)	- Pump		SWL	Placement
7.25 14.5 73	313 318 373 330	72.0 72.1 72.2 70.7	6.54 6.54 6.56 6.57	1,009 996 993 95%		SOME LU	EN FUEL ODOR, 13. SANAS CARMY LI SANDS, FINE SILVES		30'
3. SAMPL			: Method Analysi	DISP BAIL TPH, BOI NE	EZ Containe 5, BIEX EDS LO	er 3-40 m	VOA Preservat	ion_Hc	

			GRO	UNDWATER SA	AMPLE COL	LECTION RECO	ORD		
Location: 🔏	ARDEN	AVE	~ 'A' <	ARD T., HAYWA		:54-04	Date:	9-10-0	74
Samplers Nam Weather Cond	ne: <u> </u>	CLEA	e, War	m-77°F					
2. WELL F a. Purge M b. Required c. Field Te d. Pump R e. Method	water (filed) Depth of Water (Volume of filter pack volume, WELL of Purge Volume, WELL of Purge Vosting; Equate	Column ack e VOLUM Jolume (cuipment 1.07	= 11 = 11 = 5 = 5 E = 7 (TRH6) (3) 7.16 gr	Aby (e. x [ga . 1bg (d. + f. H w/ WATO allons per well vo YS1#3500	al/ft casing]) al/ft filter pace $\frac{\nabla P H}{\partial P H} = \frac{1}{2}$ $\frac{\nabla P H}{\partial P} = \frac{1}{2}$	w Ti w k])	OC Elevation (frozen Table Elev. Table Ele	x 6.5"	
Volume Removed (gal)	Time	T⁰c	Нq	Spec. Conductivity	Turbidity (NTU's)		lor/ iption	SWL	Pump Placement
	1343-					BUTTO GREEN			12.0)
7.25		243		1,328		FUEL OPER	TURBID		30'
14.5	1353		6.49	1382		SAME	<u> </u>		
22.5	1405		6.46 6.53	1,400		SAMPLE			
								:11	
3. SAMPL			: Method Analysis	: <u>TPH(G)</u> ,	Contain BIEX, E		OA Preserva	tion <u>HC</u>	

			GRO	OUNDWATER SA	AMPLE COL	LECTION RECO	RD		
Location: Samplers Nar	<u>GARDE</u> ne:	EN AVE	ENNA ENNA	ST, Hay	JARD CA	156A-04			
g. TOTAL 2. WELL I a. Purge M b. Require c. Field Te d. Pump R e. Method	o water (fill Depth of Water (Volume of filter pack volume well, WELL, WELL, WELL, String; Equateof GW D	Column ack Column Tolume (column Column C	= 3 = 3 = 1 = 1 = 1 = 7 = 7 1 7 7 8 4 7 7 8	21.43 12.15' 10.70' (b a.) 1.71 g. (c. x [gi 5.46 g. (e. x [gi 5.17 g. (d. + f. SH PUMP h gallons per well v YS1 & 3500	al/ft casing]) al/ft filter pac) UATE olume) = Z OH, S.C.	W Ti W k]) RRA 1.51 GAC	oc Elevation (frater Table Elevation (TC) ape Corr. (TC) 2-in. casing 4-in. casing 6.5-in. casing 10-in. casing 12-in. casing	X 6.5	
Volume Removed (gal)	Time	T⁰c	pН	Spec. Conductivity	Turbidity (NTU's)	Col Descr	iption	SWL	Pump Placement
0.0-	1235					FUMP OF			301
7.25	1240	25.0	6.50	1300		FINE SAND	AZER ENE	1	-5¢)
14.5	1245	U.S	6,49	1,274		CLUANER, CLE	ius, sauls	<u> </u>	
23	1251	218	6.51	1,269		SAME		 	
	1300	20.7	6,53	1,265		SAMPLEL	>		
3. SAMPL			Analysi	is TPH, 2011	EX Contain	1 3-40 ml		1	<u></u>

CHAIN OF CUSTODY RECORD Analyses required Project or PO# 156A-0A Client name BC-P.H. Phone # 937-9010 3480 Buskiek Ave. Report attention City, State, Zip TODD MIELER PLEASANT HILL, CA. 94503 Sampled by KEVIN MCINENNA Number Type* Lab Time See key Remarks Sample Date containers Sample description sampled below number sampled 3 3 MW-B GW 9/20/94 1300 3 3 MW-10 1330 3 3 MW-7 1417 3 3 3 MW-9 3 3 MW-1 3 3 MW-Z 1650 3 3 MW-4 1732 3 MW-5 3 1812 0 3 3 MW-50 1813 3 3 MW-6FB 1820 3 3 MW6 6W 1853 MW3 1935 Date Time **Print Name** Signaturé BROWN & CALDWELL-P.H. 1500 KOVIN M'IIVENNA Relinquished by Received by Relinquished by Received by Relinquished by

R C ANALYTICA									
	•	~ ~	V T14	•			_	_	
MILDMALT CILL	_	L D		м	-	8		-	

Received by Laboratory

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----Aqui-



SPL, INC.

REPORT APPROVAL SHEET

WORK ORDER NUMBER: <u>94-09-86/</u>

Approved for release by:

Brent Barron, Project Manager

Date: 10 103 194

S. Sample, Laboratory Director

Date: 10/03/94



****SUMMARY REPORT****

09/30/94

Company: Site:

EZ Serve Inc. 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 MATER	MU-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 5#g/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-50 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 10#g/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. Hayward, CA

site: Project No:

Project:

1574-04 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	MW-3 09/20/94 19:35:00	2200 10µg/L	130 10µg/L	670 10µg/L	930 10µg/L	8.2 1.0mg/L			



EZ Serve Inc.

3550 North Loop West, #600

Houston, TX 77292 ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877

PROJECT NO: 1574-04

SITE: Hayward, CA

MATRIX: WATER

SAMPLED BY: Brown & Cadwell

DATE SAMPLED: 09/20/94 13:00:00

SAMPLE ID: MW-8

DATE RECEIVED: 09/22/94

ANALYTICAL	DATA		
PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	ND	1 P	μg/L
TOLUENE	ND	1 P	μg/L
ETHYLBENZENE	ND	1 P	μg/L
TOTAL XYLENE	ND	1 P	μg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		$\mu g/L$
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 quidelines for quality assurance. SPL California License # 1903

Project Manager



EZ Serve Inc.

3550 North Loop West, #600

Houston, TX 77292 ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877

SITE: Hayward, CA

SAMPLE ID: MW-10

MATRIX: WATER

SAMPLED BY: Brown & Cadwell

DATE SAMPLED: 09/20/94 13:30:00 DATE RECEIVED: 09/22/94

PROJECT NO: 1574-04

DATA		
RESULTS	DETECTION	UNITS
	LIMIT	
34	1 P	μg/L
16	1 P	μg/L
270	1 P	μg/L
560	1 P	μg/L
880		μg/L
% Recovery		
122		
152 «		
2.8	0.1 P	mg/L
% Recovery		
125		
241 «		
	34 16 270 560 880 * Recovery 122 152 « 2.8 * Recovery	RESULTS DETECTION LIMIT 34 1 P 16 1 P 270 1 P 560 1 P 880 Recovery 122 152 « 2.8 0.1 P Recovery 125

(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



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		
PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	540	5 P	μg/L
TOLUENE	6	5 P	μg/L
ETHYLBENZENE	750	5 P	μg/L
TOTAL XYLENE	730	5 P	μg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	2026		μg/L
Surrogate	% Recovery		
1,4-Difluorobenzene	119		
4-Bromofluorobenzene METHOD 8020***	115		
Analyzed by: JZL			
Date: 09/28/94			
Petroleum Hydrocarbons - Gasoline	6.1	0.5 P	mg/L
Surrogate	% Recovery		
1,4-Difluorobenzene	8 5		
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 /



EZ Serve Inc.

3550 North Loop West, #600

Houston, TX 77292 ATTN: Brian Cobb

PROJECT: EZSERV # 100877

PROJECT NO: 1574-04 MATRIX: WATER

SITE: Hayward, CA

DATE SAMPLED: 09/20/94 15:15:00

DATE: 09/30/94

SAMPLED BY: Brown & Cadwell SAMPLE ID: MW-9

DATE RECEIVED: 09/22/94

ANALYTICAL	DATA		
PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	2200	5 P	μg/L
TOLUENE	97	5 P	μg/L
ETHYLBENZENE	400	5 P	μg/L
TOTAL XYLENE	1200	5 P	μg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	3897		μg/L
Surrogate	% Recovery		
1,4-Difluorobenzene	125		
4-Bromofluorobenzene METHOD 8020***	100		
Analyzed by: JZL			
Date: 09/28/94			
Petroleum Hydrocarbons - Gasoline	7.5	0.5 P	mg/L
Surrogate	% Recovery		
1,4-Difluorobenzene	90		
4-Bromofluorobenzene	120		
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



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		
PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	3100	10 P	μg/L
TOLUENE	75	10 P	μg/L
ETHYLBENZENE	440	10 P	μg/L
TOTAL XYLENE	870	10 P	μg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	4485		μg/L
Surrogate	% Recovery		
1,4-Difluorobenzene	120		
4-Bromofluorobenzene METHOD 8020***	69		
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



EZ Serve Inc.

3550 North Loop West, #600

Houston, TX 77292 ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877

SITE: Hayward, CA

MATRIX: WATER

PROJECT NO: 1574-04

SAMPLED BY: Brown & Cadwell

DATE SAMPLED: 09/20/94 16:50:00

SAMPLE ID: MW-2 DATE RECEIVED: 09/22/94

ANALYTICAL	DATA		
PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	4500	25 P	μg/L
TOLUENE	300	25 P	μg/L
ETHYLBENZENE	1200	25 P	μg/L
TOTAL XYLENE	4000	25 P	μg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	10000		μg/L
Surrogate	% Recovery		
1,4-Difluorobenzene	115		
4-Bromofluorobenzene METHOD 8020***	98		
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



EZ Serve Inc.

3550 North Loop West, #600

Houston, TX 77292 ATTN: Brian Cobb

TN: Brian Cobb DATE: 09/30/94

PROJECT: EZSERV # 100877

PROJECT NO: 1574-04

SITE: Hayward, CA

MATRIX: WATER

SAMPLED BY: Brown & Cadwell

DATE SAMPLED: 09/20/94 17:32:00

SAMPLE ID: MW-4

DATE RECEIVED: 09/22/94

ANALYTICAL	DATA		
PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	2000	5 P	μg/L
TOLUENE	360	5 P	μg/L
ETHYLBENZENE	380	5 P	μg/L
TOTAL XYLENE	1000	5 P	μg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	3740		μg/L
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



EZ Serve Inc.

3550 North Loop West, #600

Houston, TX 77292 ATTN: Brian Cobb

PROJECT NO: 1574-04

DATE: 09/30/94

PROJECT: EZSERV # 100877

MATRIX: WATER

SITE: Hayward, CA

SAMPLED BY: Brown & Cadwell

DATE SAMPLED: 09/20/94 18:12:00

SAMPLE ID: MW-5

DATE RECEIVED: 09/22/94

ANALYTICAL	DATA		····
PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	1600	5 P	μg/I
TOLUENE	54	5 P	μg/I
ETHYLBENZENE	650	5 P	μg/I
TOTAL XYLENE	1400	5 P	μg/I
TOTAL VOLATILE AROMATIC HYDROCARBONS	3704		μg/I
Surrogate	% Recovery		
1,4-Difluorobenzene	124		
4-Bromofluorobenzene METHOD 8020***	80		
Analyzed by: JZL			
Date: 09/29/94			
Petroleum Hydrocarbons - Gasoline	8.4	0.5 P	mg/I
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

Project Manager



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

BAMPLE ID: MW-5D

PROJECT NO: 1574-04
MATRIX: WATER

DATE SAMPLED: 09/20/94 18:13:00

DATE RECEIVED: 09/22/94

ANALYTICAL	DATA		
PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	1700	5 P	μg/L
TOLUENE	56	5 P	μg/L
ETHYLBENZENE	670	5 P	μg/L
TOTAL XYLENE	1600	5 P	μg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	4026		μg/L
Surrogate	% Recovery		
1,4-Difluorobenzene	125		
4-Bromofluorobenzene METHOD 8020***	108		
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



EZ Serve Inc.

3550 North Loop West, #600

Houston, TX 77292 ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877

SITE: Hayward, CA

PROJECT NO: 1574-04
MATRIX: WATER

SAMPLED BY: Brown & Cadwell

DATE SAMPLED: 09/20/94 18:20:00

SAMPLE ID: MW-6FB

DATE RECEIVED: 09/22/94

ANALYTICAL	DATA		
PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	ND	1 P	μg/L
TOLUENE	ND	1 P	μg/L
ETHYLBENZENE	ND	1 P	μg/L
TOTAL XYLENE	ND	1 P	μg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		μg/L
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



EZ Serve Inc.

3550 North Loop West, #600

Houston, TX 77292 ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877

PROJECT NO: 1574-04

SITE: Hayward, CA

MATRIX: WATER

SAMPLED BY: Brown & Cadwell

DATE SAMPLED: 09/20/94 18:53:00

SAMPLE ID: MW-6

DATE RECEIVED: 09/22/94

ANALYTICAL	DATA		
PARAMETER	RESULTS	DETECTION	UNITS
		LIMIT	
BENZENE	2000	10 P	μg/L
TOLUENE	140	10 P	$\mu g/L$
ETHYLBENZENE	1200	10 P	$\mu g/L$
TOTAL XYLENE	760	10 P	$\mu g/L$
TOTAL VOLATILE AROMATIC HYDROCARBONS	4100		μg/L
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

Project Manager



EZ Serve Inc.

3550 North Loop West, #600

Houston, TX 77292 ATTN: Brian Cobb

DATE: 09/30/94

PROJECT: EZSERV # 100877

SITE: Hayward, CA

PROJECT NO: 1574-04
MATRIX: WATER

SAMPLED BY: Brown & Cadwell

DATE SAMPLED: 09/20/94 19:35:00

SAMPLE ID: MW-3

DATE RECEIVED: 09/22/94

			
ANALYTICAL	DATA		
PARAMETER	RESULTS	DETECTION	UNITS
		LIMIT	
BENZENE	2200	10 P	μg/L
TOLUENE	130	10 P	μg/L
ETHYLBENZENE	670	10 P	μg/L
TOTAL XYLENE	930	10 P	μg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	3930		μg/L
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

QUALITY CONTROL DOCUMENTATION



SPL BATCH QUALITY CONTROL REPORT ** METHOD 8020

Matrix: Units: #g/L

Aqueous

HP_R940928151900 Batch Id:

LABORATORY CONTROL SAMPLE

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

MATRIX SPIKES

SPIKE Compounds	Sample Results	Spike Added	Matrix	Spike	Matrix Dupli	Spike cate	MS/MSD Relative %		imits(***) Advisory)
	<2>	∢3>	Result <1>	Recovery <4>	Result <1>	Recovery <5>	Difference	RPD Max.	Recovery Rang
Benzene	35	20	53	90.0	56	105	15.4	19	61 - 13
Toluene	3	20	21	90.0	23	100	10.5	18	57 - 12
EthylBenzene	23	20	41	90.0	43	100	10.5	18	55 - 13
0 Xylene	2	20	20	90.0	21	95.0	5.41	20	40 - 13
M & P Xylene	18	40	56	95.0	59	102	7.11	16	43 - 15

Analyst: JZL

Sequence Date: 09/28/94

SPL ID of sample spiked: 9409858-10A

Sample File ID: R___554.TXO

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

x = (<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

PAGE 1

Matrix: Units:

Aqueous #g/L Batch Id: HP_R940929104910

LABORATORY CONTROL SAMPLE

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

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results	Spike Added	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative %	QC Limits(***) (Advisory)		
	<2>	⋖\$>	Result <1>	Recovery <4>	Result <1>	Recovery <5>	Difference	RPD Max.	Recovery Range	
Benzene	7	20	34	135 *	36	145 *	7.14	19	61 - 131	
Toluene	23	20	58	175 *	68	225 *	25.0 *	18	57 - 127	
EthylBenzene	4	20	27	115	28	120	4.26	18	55 - 131	
0 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.TXO

* = 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 9409862-09A 9409862-01A 9409862-01A

Idelis Williams, QC Officer



SPL BATCH QUALITY CONTROL REPORT ** Modified 8015 - Gasoline

Matrix: Units: Aqueous mg/L Batch Id: HP_R940928184910

LABORATORY CONTROL SAMPLE

SPIKE	Method	Spike	Blank	Spike	QC Limits(**)
COMPOUNDS	Blenk Result <2>	Added <3>	Result <1>	Recovery %	(Handatory) % Recovery Range
Petroleum Hydrocarbons	NO	5.0	6.0	120	56 - 139

MATRIX SPIKES

S P I K E C O M P O U N D S	Sample Results	Spike Added	Matrix	Spike	Matrix Dupli	Spike cate	MS/MSD Relative %		imits(***) (Advisory)
	<2>	<3>	Result <1>	Recovery <4>	Result <1>	Recovery <5>	Difference	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.TXO

Method Blank File ID:

Blank Spike File ID: RR__548.TXO Matrix Spike File ID: RR__551.TXO

Matrix Spike Duplicate File ID: RR__552.TXO

* = 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: Units:

Aqueous mg/L

Batch Id:

HP_R940929123900

LABORATORY CONTROL SAMPLE

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

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results	Spike Added	Matrix	Spike	M atrix Dupli	Spike cate	MS/MSD Relative %		limits(***) (Advisory)
	<2>	<3>	Result <1>	Recovery <4>	Result	Recovery <5>	Difference	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_585.7X0 Matrix Spike File ID: RR 587.TXO

Matrix Spike Duplicate File ID: RR 588.TXO

* = Values Outside QC Range

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit % = (<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

				СНА	IN OF CUST	ODY RECORD	9409	96J	5						E	BCA Log	Number	·		_
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5			1515		MW-1			3	3								,	_		
4			1650		MW-Z			3	3											
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0			1812		MW-5			3	3		-								•	
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Disposal arrangements: _

801 Western Avenue, Glendale, CA 91201 (818) 247-5737 1200 Gene Autry Way Anaheim CA 92805 (714) 978-0113 NA-Nonaqueous GW-Groundwater AQ-Aqueous

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SPL HOUSTON ENVIRONMENTAL LABORATORY

SAMPLE LOGIN CHECKLIST

DATE LOT			
SPL	SAMPLE NOS.: 9409861		
		YES I	NO
1. 2.	Is a Chain-of-Custody form present? Is the COC properly completed? If no, describe what is incomplete:		
3.	If no, has the client been contacted about it? (Attach subsequent documentation from client about the light of lading with shipment? If yes, ID#: 100/1074565		
4. 5. 6.	If yes, IDF: // Company / Traffic Report present? Is a USEPA SAS Packing List present? Are custody seals present on the package? If yes, were they intact upon receipt?	- 	
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	e situation)	
8.	Do all shipping documents agree? If no, describe what is in nonconformity:		
9. 1 0. 11.		TACT TOOV h to client_	
NOTE	S (reference item number if applicable):		
	ST: DATE: DATE: DATE: DATE: DATE:	12/94	