

Ro29

FAX TRANSMISSION SHEET



TO: Barney Chan

FAX #: 337-9335

FROM: Derek Wong

DATE: October 26, 2004

SUBJECT: 301 14th Street

PAGES: 11
(to follow)

ICES 88@MSN.COM

Barney:

For your review. If you have any questions, please
feel free to contact me at (510) 652-3222.

Tel (510) 652-3222
 Fax (510) 652-3555

CONFIDENTIALITY NOTICE:

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P. O. Box 99288
 Emeryville CA
 94662-9928

SUMMARY OF SOIL SAMPLE CHARACTERIZATION DATA
 301 14TH STREET
 OAKLAND, CALIFORNIA
 (concentrations are expressed in mg/kg)

Sample Date	Sample ID	Depth (ft bgs)	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
SOIL SAMPLING - Soil Boring and Well Installation Report (GeoStrategies Inc., June 1990)								
6/4/1990	C-1-15	15	1.0	0.05	<0.05	<0.05	<0.05	NA
6/4/1990	C-1-20	20	800	3.6	31	13	77	NA
6/4/1990	C-1-25	25	<1.0	<0.05	<0.05	<0.05	<0.05	NA
6/5/1990	C-2-10	10	<1.0	<0.05	<0.05	<0.05	<0.05	NA
6/5/1990	C-2-15	15	<1.0	<0.05	<0.05	<0.05	<0.05	NA
6/5/1990	C-2-22	22	11	1.1	1.7	0.15	0.87	NA
6/4/1990	C-3-5	5	<1.0	<0.05	<0.05	<0.05	<0.05	NA
6/4/1990	C-3-10	10	<1.0	0.13	<0.05	<0.05	<0.05	NA
6/4/1990	C-3-15	15	<1.0	<0.05	<0.05	<0.05	<0.05	NA
6/4/1990	C-3-20	20	840	0.93	15	9	63	NA
6/4/1990	C-3-25	25	3	0.07	0.05	<0.05	0.19	NA
6/4/1990	C-4-20	20	<1.0	<0.05	<0.05	<0.05	<0.05	NA
6/4/1990	C-4-25	25	<1.0	<0.05	<0.05	<0.05	<0.05	NA
6/4/1990	C-A-10	10	<1.0	<0.05	<0.05	<0.05	<0.05	NA
6/4/1990	C-A-15	15	2	<0.05	<0.05	<0.05	0.1	NA
6/4/1990	C-A-20	20	1,200	5.6	43	18	120	NA
6/4/1990	C-A-25	25	2	0.1	0.06	<0.05	0.09	NA
6/5/1990	C-B-10	10	<1.0	<0.05	<0.05	<0.05	<0.05	NA
6/5/1990	C-B-15	15	<1.0	<0.05	<0.05	<0.05	<0.05	NA
6/5/1990	C-B-20	20	1,900	12	80	26	150	NA
6/5/1990	C-B-25	25	9	1.3	0.33	0.05	0.31	NA
6/5/1990	C-C-10	10	<1.0	<0.05	<0.05	<0.05	<0.05	NA
6/5/1990	C-C-15	15	<1.0	0.22	<0.05	<0.05	<0.05	NA
6/5/1990	C-C-20	20	360	0.75	9.9	4.8	30	NA
6/5/1990	C-C-25	25	190	1.5	8	3.1	19	NA
6/5/1990	C-D-5	5	<1.0	<0.05	<0.05	<0.05	<0.05	NA
6/5/1990	C-D-10	10	<1.0	<0.05	<0.05	<0.05	<0.05	NA
6/5/1990	C-D-15	15	<1.0	<0.05	<0.05	<0.05	<0.05	NA
6/5/1990	C-D-20	20	3	0.32	0.32	<0.05	0.15	NA
6/5/1990	C-D-25	25	<1.0	<0.05	<0.05	<0.05	<0.05	NA
SOIL SAMPLING - Well Installation Report (GeoStrategies Inc., October 1990)								
10/18/90	C-5-15.5	15.5	6.0	0.088	0.3	0.094	0.56	NA
10/18/90	C-5-20.5	20.5	3	0.17	0.49	0.071	0.51	NA
10/18/90	CR-1-15.5	15.5	1	0.54	0.17	0.059	0.11	NA
10/18/90	CR-1-20.5	20.5	1,200	9.5	56	18	110	NA
ESL			100.0	0.044	2.9	3.3	1.5	750.0

OCT 26 '04 13:12 FROM:

T-500 P.02 F-309

SUMMARY OF SOIL SAMPLE CHARACTERIZATION DATA
301 14TH STREET
OAKLAND, CALIFORNIA
(concentrations are expressed in $\mu\text{g}/\text{kg}$)

Sample Date	Sample ID	Depth (ft bgt)	TPH-gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	Lead
SOIL SAMPLING - Overexcavation of UST Pit and Trench Samples (GeoStrategies Inc., February 1991)								
2/21/1991	CX-1B	14	6,100	57	440	120	740	NA
2/21/1991	CX-2B	15	2,100	16	180	54	310	NA
2/21/1991	CX-3B	14	<1.0	0.049	0.033	0.006	0.04	NA
2/21/1991	CX-4B	15	4,600	14	130	77	140	NA
2/21/1991	CX-5B	15	<1.0	<0.005	0.008	<0.005	0.006	<10.0
2/21/1991	CX-6B	15	<1.0	<0.005	0.008	<0.005	0.006	<10.0
3/6/1991	CX-7S	15	<1.0	<0.005	<0.005	<0.005	<0.005	NA
3/6/1991	CX-8S	15	<1.0	0.007	0.007	<0.005	0.007	NA
2/21/1991	CT-1	3	7,800	2.8	140	150	1,200	NA
2/21/1991	CT-2	3.5	30	<0.015	0.017	0.11	0.33	NA
2/21/1991	CT-3	3	<1.0	<0.005	0.005	<0.005	0.005	NA
2/21/1991	CT-4	3	<1.0	<0.005	0.011	<0.005	0.011	NA
SOIL SAMPLING - Well Installation Report (GeoStrategies Inc., April 1991)								
4/25/1991	C-6-15.5	15.5	<1.0	<0.005	<0.005	<0.005	<0.005	NA
4/25/1991	C-6-22.5	22.5	<1.0	<0.005	<0.005	<0.005	<0.005	NA
4/25/1991	C-6-23.5	23.5	<1.0	<0.005	<0.005	<0.005	<0.005	NA
4/23/1991	C-7-15.5	15.5	<1.0	<0.005	<0.005	<0.005	<0.005	NA
4/23/1991	C-7-20.5	20.5	<1.0	<0.005	<0.005	<0.005	<0.005	NA
4/23/1991	C-7-24.5	24.5	<1.0	<0.005	<0.005	<0.005	<0.005	NA
4/24/1991	C-8-15.5	15.5	<1.0	<0.005	<0.005	<0.005	<0.005	NA
4/24/1991	C-8-22.5	22.5	<1.0	<0.005	<0.005	<0.005	<0.005	NA
4/24/1991	C-8-25.5	25.5	10.0	<0.005	0.04	0.03	0.1	NA
4/30/1991	C-9-15.5	15.5	<1.0	<0.005	<0.005	<0.005	<0.005	NA
4/30/1991	C-9-20.5	20.5	<1.0	<0.005	<0.005	<0.005	<0.005	NA
4/30/1991	C-9-23.5	23.5	<1.0	<0.005	<0.005	<0.005	<0.005	NA
SOIL SAMPLING - Well Installation Report (Groundwater Technology Inc., June 1992)								
6/11/1992	MW10B	15.5	<1.0	<0.005	<0.005	<0.005	<0.005	NA
6/11/1992	MW-10C	20.5	<1.0	<0.005	<0.005	<0.005	<0.005	NA
6/11/1992	VEW1B	19	1300.0	14	56	18	91	NA
SOIL SAMPLING - Additional Environmental Assessment (Groundwater Technology Inc., March 1993)								
3/31/1993	VEW-3(0)	10	<1.0	<0.005	<0.005	<0.005	<0.015	NA
3/31/1993	VEW-3(20)	20	2,500	25	120	23	460	NA
SOIL SAMPLING - Subsurface Investigation (Sierra Environmental Services, April 1994)								
4/27/1994	MW-11(20)	20	<1.0	<0.005	<0.005	<0.005	<0.005	NA
4/27/1994	MW-12(15)	15	<1.0	<0.005	<0.005	<0.005	<0.005	NA
4/27/1994	MW-12(20)	20	5.0	0.007	0.016	0.011	0.84	NA
ESL			100.0	0.044	2.9	3.3	1.5	7500

SUMMARY OF SOIL SAMPLE CHARACTERIZATION DATA
 301 14TH STREET
 OAKLAND, CALIFORNIA
 (concentrations are expressed in mg/kg)

Sample Date	Sample ID	Depth (ft bgs)	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
SOIL SAMPLING - Drilling Report (Terra Vac, July 1995)								
7/21/1995	SP1-20.2	20.2	3,100	33	47	39	280	NA
7/21/1995	SP2-20.0	20	1,900	15	72	34	220	NA
7/21/1995	VEW4-20.2	20.2	<1.0	0.081	0.0078	0.019	0.095	NA
7/21/1995	VEW5-23.7	23.7	28	7	7.6	0.52	2.4	NA
SOIL SAMPLING - Drilling Report (Terra Vac, October 1995)								
10/2/1995	SP3-20.2	20.2	14,000	17	940	270	1,800	NA
10/2/1995	SP3-35.5	35.5	<1.0	0.044	0.045	0.011	0.071	NA
10/3/1995	SP4-25.3	25.3	9.5	1.8	0.79	0.23	1	NA
10/3/1995	SP4-30.3	30.3	11	0.46	2	0.29	2.3	NA
SOIL SAMPLING - Interim Boring Installation Report (Terra Vac, December 1995)								
Dec 1995	SP5-19.3	19.3	120.0	<2.5	<0.25	<0.25	2	NA
Dec 1995	SP5-21.3	24.3	9.9	1	1.1	0.16	1.1	NA
Dec 1995	SP6-20.3	20.3	6,900	96	560	150	940	NA
Dec 1995	SP6-23.3	25.3	18	1.6	0.75	0.2	1.1	NA
Dec 1995	SP7-20.3	20.3	4,600	<6.0	120	82	760	NA
Dec 1995	SP7-23.3	25.3	3.8	<0.085	0.15	0.046	0.36	NA
Dec 1995	SP8-20.7	20.7	3,600	<6.0	<6.0	<6.0	210	NA
Dec 1995	SP8-23.7	25.7	<1.0	0.038	0.015	0.0056	0.1	NA
Dec 1995	SP8-30.7	30.7	<1.0	0.0066	0.029	<0.005	0.034	NA
ESL								
			100.0	0.044	2.9	3.3	1.5	750.0



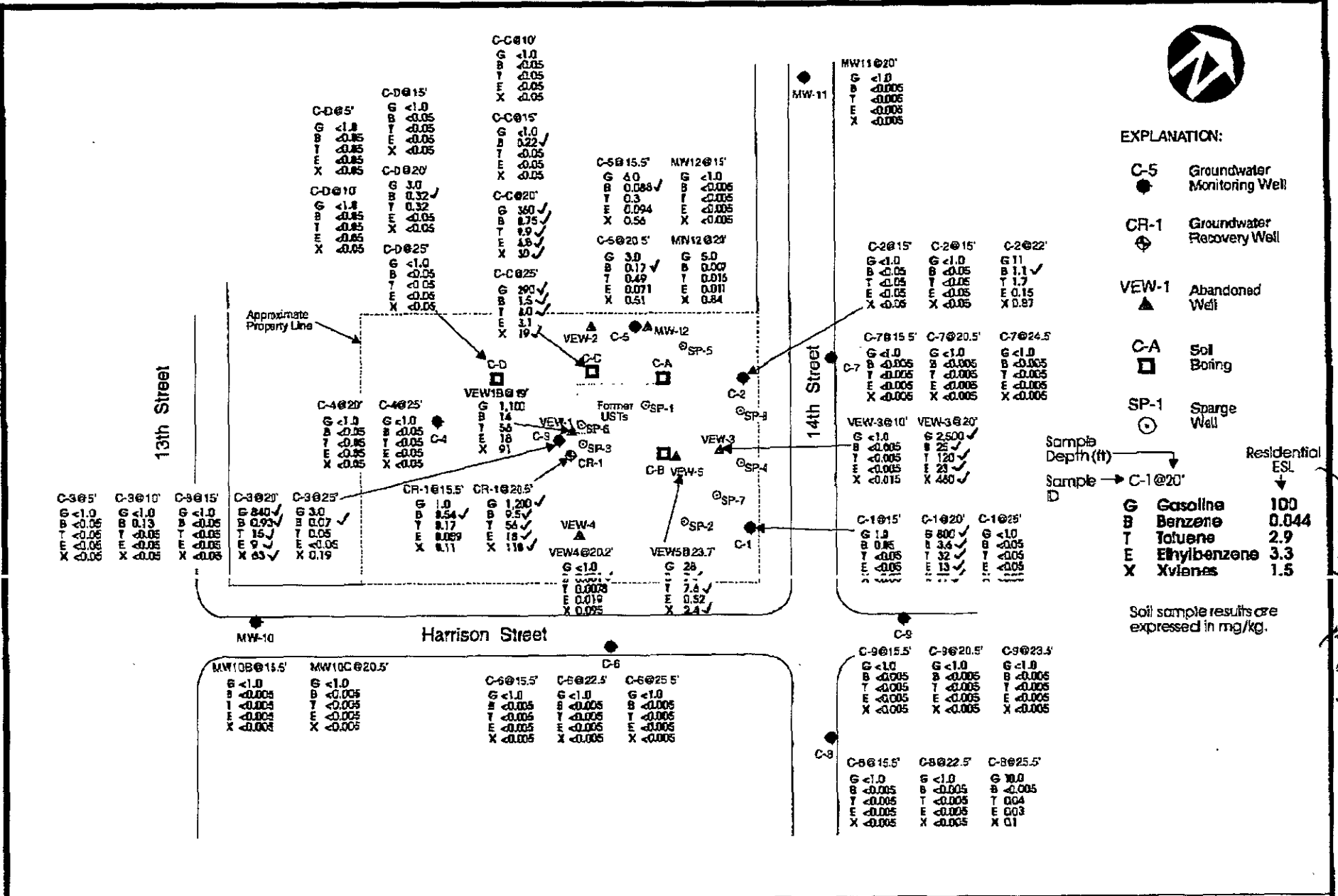
EXPLANATION:

- C-5 Groundwater Monitoring Well
- CR-1 Groundwater Recovery Well
- VEW-1 Abandoned Well
- C-A Soil Boring
- SP-1 Sparge Well

Sample Depth (ft)	Residential ESL
C-1@20'	
G	Gasoline 100
B	Benzene 0.044
T	Toluene 2.9
E	Ethylbenzene 3.3
X	Xylenes 1.5

Soil sample results are expressed in mg/kg.

*Shallow soils
9W15 potential GW source*



Scale: 1" = ± 50' October 2004

PETROLEUM HYDROCARBONS DETECTED IN SOIL

Former Chevron Service Station #9-4816
301 14th Street
Oakland, California

Figure 1A

Project 3892



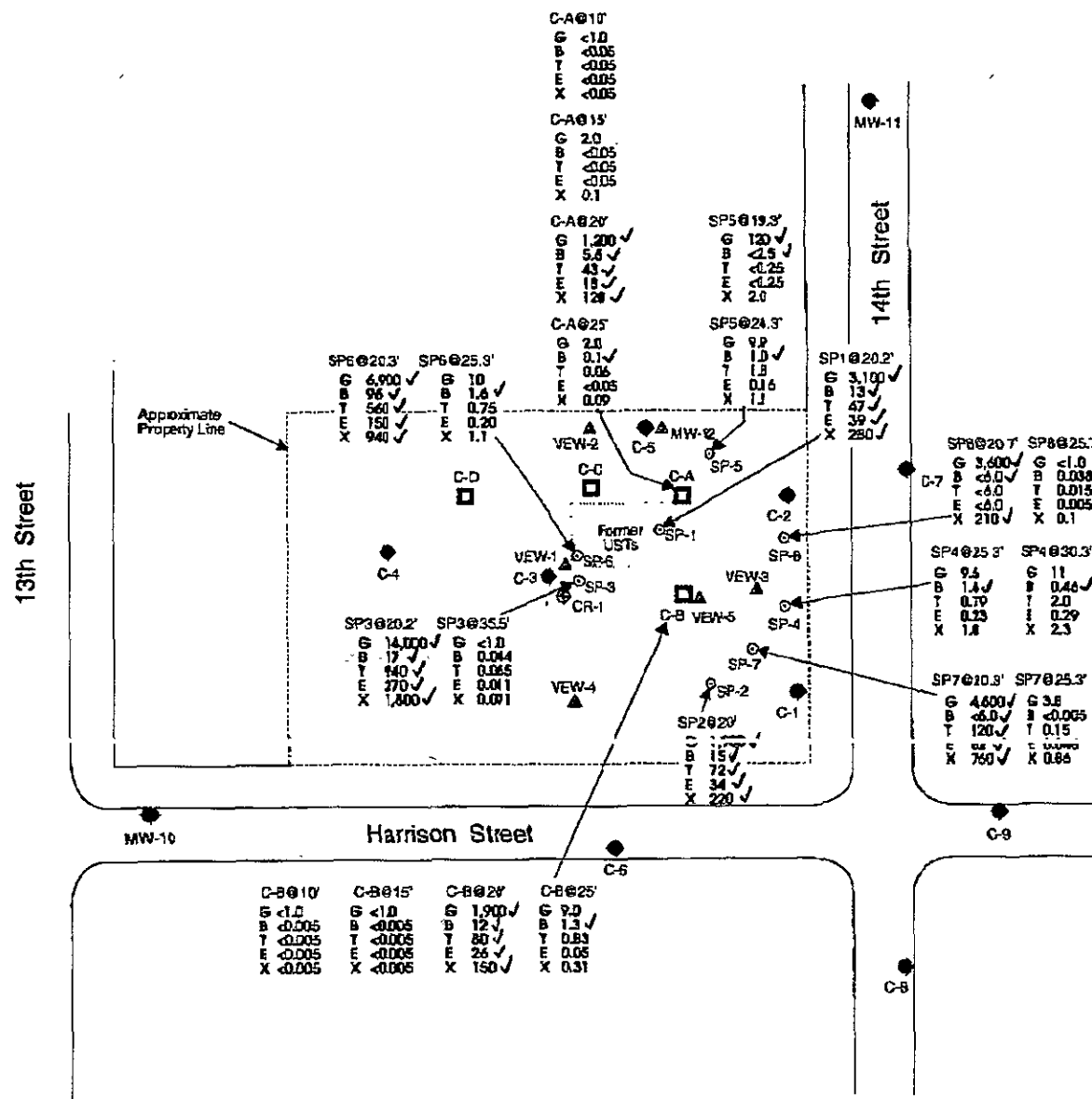


EXPLANATION:

- ◆ C-5 Groundwater Monitoring Well
- ⊕ CR-1 Groundwater Recovery Well
- ▲ VEW-1 Abandoned Well
- C-A Soil Boring
- ⊙ SP-1 Sparge Well

Sample Depth (ft)	Residential ESL
Sample ID → C-A@20'	↓
G Gasoline	100
B Benzene	0.044
T Toluene	2.9
E Ethylbenzene	3.3
X Xylenes	1.5

Soil sample results are expressed in mg/kg.



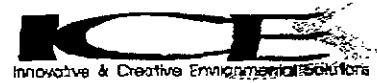
Scale: 1" = ± 50' October 2004

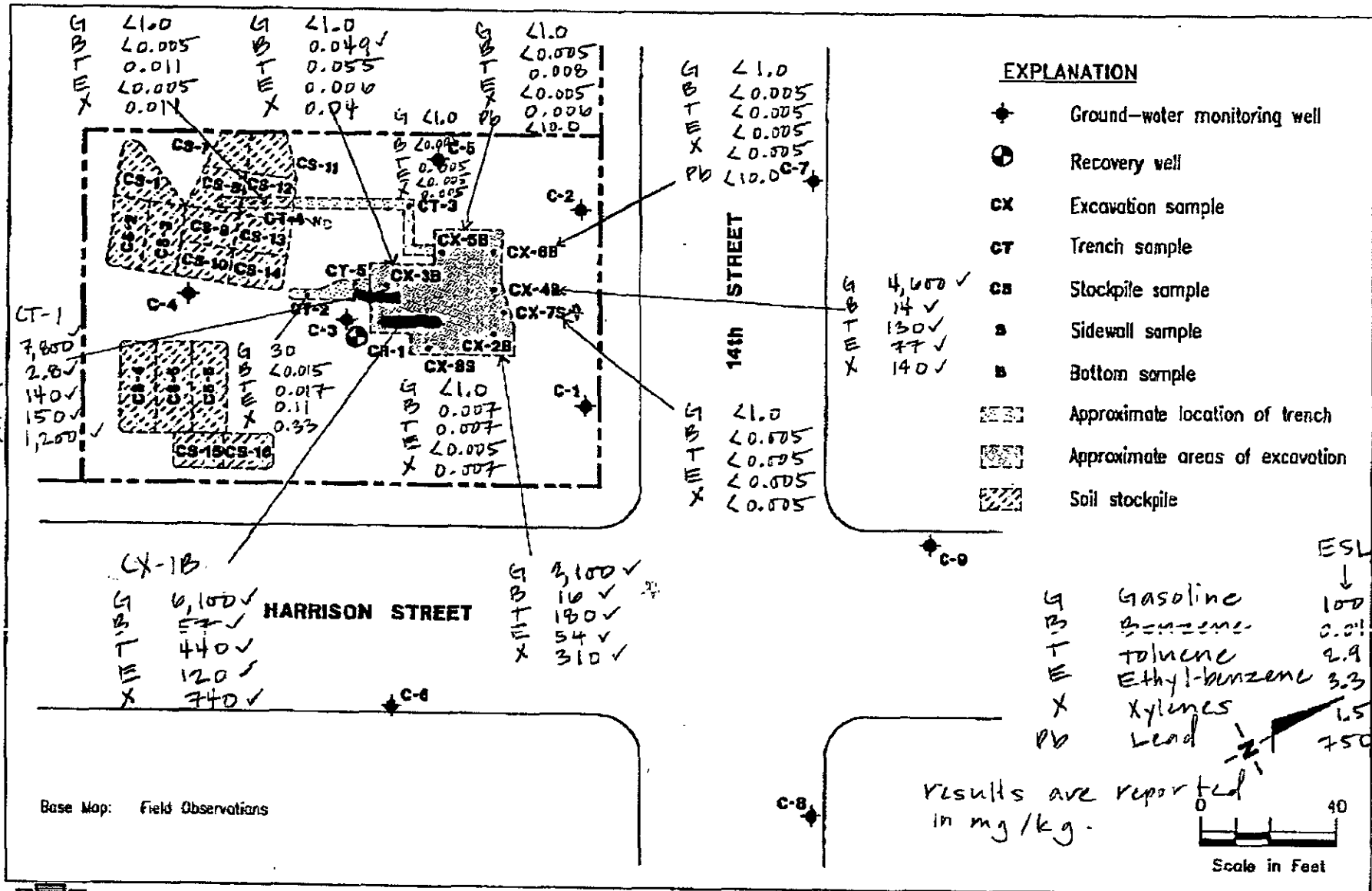
PETROLEUM HYDROCARBONS DETECTED IN SOIL

Former Chevron Service Station #9-4816
301 14th Street
Oakland, California

Figure 1B

Project 3892





GSI GeoStrategies Inc. **SOIL SAMPLING AND STOCKPILE MAP** **PLATE 3**
 Former Chevron Service Station #4B16
 301 14th Street
 Oakland, California

JOB NUMBER: 727003-7
 REVIEWED BY: LSY
 DATE: 7/91
 REVISED DATE:

*overex sample

INITIAL AND CURRENT GROUNDWATER CHARACTERIZATION DATA
301 14th Street
OAKLAND, CALIFORNIA
(concentrations are expressed in ug/L)

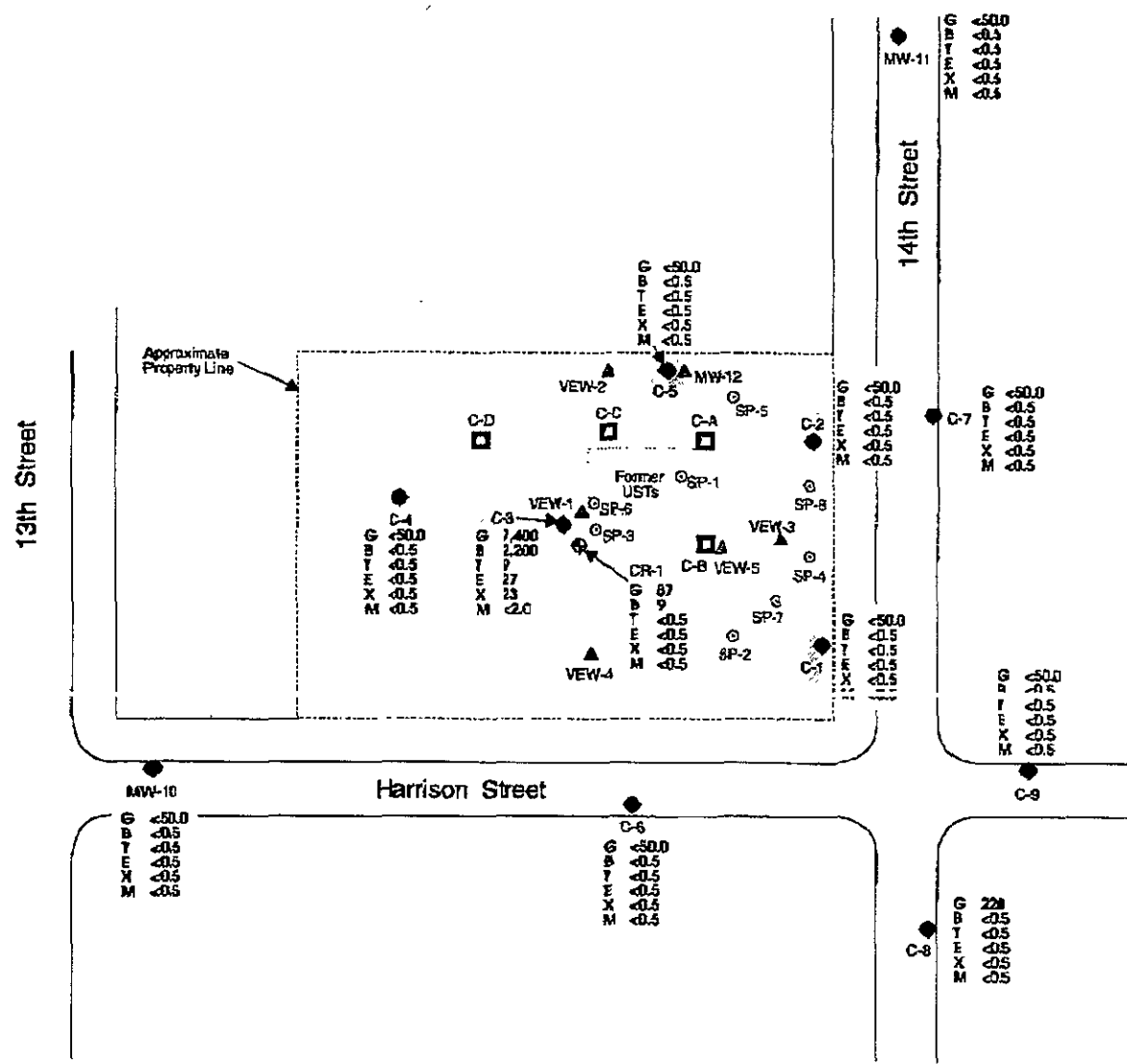
Sample Date	Well ID	DTW (ft)	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
6/13/1990	C-1	21.97	26,000	2,800	5,100	400	2,600	NA
6/27/1997	C-1	19.21	140	<0.5	<0.5	<0.5	0.55	<2.5
6/4/2004	C-1	20.31	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5
6/13/1990	C-2	22.08	15,000	1,100	1,900	260	1,700	NA
6/27/1997	C-2	20.47	170	1.1	<0.5	<0.5	<0.5	<2.5
6/4/2004	C-2	20.51	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5
3/15/1993	C-3	20.76	530,000	69,000	58,000	6,000	32,000	NA
6/22/1998	C-3	18.45	8,400	950	<500	<50.0	320	<250.0
6/4/2004	C-3	21	7,400	2,200	9	27	13	<2.0
6/13/1990	C-4	22.73	440	47	47	3	61	NA
6/27/1997	C-4	19.96	<50.0	<0.5	<0.5	<0.5	<0.5	<2.5
6/4/2004	C-4	21.26	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5
10/30/1990	C-5	22.11	20,000	2,500	3,300	320	2,200	NA
6/27/1997	C-5	20.81	490	6.9	<1.0	<1.0	5.7	<5.0
6/4/2004	C-5	21.08	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5
5/2/1991	C-6	21.84	<50.0	<0.5	<0.5	<0.5	<0.5	NA
6/4/2004	C-6	19.61	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5
5/2/1991	C-7	21.84	<50.0	<0.5	<0.5	<0.5	<0.5	NA
6/27/1997	C-7	20.72	<50.0	<0.5	<0.5	<0.5	<0.5	<2.5
6/4/2004	C-7	20.12	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5
5/2/1991	C-8	21.24	5,000	<0.5	17	140	470	NA
6/27/1997	C-8	20.76	3,600	<2.5	16	15	5.4	<11.0
6/4/2004	C-8	19.62	120	<0.5	0.5	<0.5	<0.5	<0.5
5/2/1991	C-9	21.27	<50.0	<0.5	<0.5	<0.5	0.8	NA
6/27/1997	C-9	19.41	<50.0	<0.5	<0.5	<0.5	<0.5	<2.5
6/4/2004	C-9	19.74	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5
ESL			100.0	1.0	40.0	30.0	13.0	5.0

OCT 26 '04 13:14 FROM:

T-500 P. 08/12 F-309

INITIAL AND CURRENT GROUNDWATER CHARACTERIZATION DATA
 301 14th Street
 OAKLAND, CALIFORNIA
 (concentrations are expressed in ug/L)

Sample Date	Well ID	DTW (ft)	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
Sample Date	Well ID	(ft)	gasoline	Benzene	Toluene	benzene	Xylenes	MTBE
1/21/1993	MW-10	21.27	<50.0	<0.5	<0.5	<0.5	<0.5	NA
6/27/1997	MW-10	19.21	<50.0	<0.5	<0.5	<0.5	<0.5	<2.5
6/4/2004	MW-10	19.49	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5
5/6/1994	MW-11		<50.0	1.4	<0.5	<0.5	1	NA
6/27/1997	MW-11	19.51	<50.0	<0.5	<0.5	<0.5	<0.5	<2.5
6/4/2004	MW-11	20.05	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5
5/6/1994	MW-12		160,000	69,000	16,000	1,900	7,600	NA
6/27/1997	MW-12	19.87	96	1.2	<0.5	<0.5	<0.5	<2.5
3/15/1993	CR-1	20.34	41,000	28,000	42,000	5,200	37,000	NA
6/22/1998	CR-1	18.55	17,000	410	260	400	1,500	1,800
6/4/2004	CR-1	21.06	87	9	<0.5	<0.5	<0.5	<0.5
ESL			100.0	1.0	40.0	30.0	13.0	5.0



- EXPLANATION:**
- C-5 Groundwater Monitoring Well
 - CR-1 Groundwater Recovery Well
 - VEW-1 Abandoned Well
 - C-A Soil Boring
 - SP-1 Sparge Well

	Residential ESL
G Gasoline	100
B Benzene	1.0
T Toluene	40.0
E Ethylbenzene	30.0
Y Xylene	13.0
M MTBE	5.0

Groundwater sample results are expressed in ug/L.

Scale: 1" = ± 50'

October 2004

PETROLEUM HYDROCARBONS DETECTED IN GROUNDWATER - JUNE 2004

Former Chevron Service Station #9-4816
301 14th Street
Oakland, California

Figure 2

Project 3592



FROM : AHERTCN

JUL 14 1997 3:51PM P 2
PAGE NO. : 4153280241ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director

July 15, 1997
STID 478
page 1 of 2ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LDP)
1131 Harbor Bay Parkway, Suite 253
Alameda, CA 94502-6377
(510) 537-8700
FAX (510) 937-9335Phil Briggs
Chevron USA Inc.
PO Box 5004
San Ramon CA 94583-0804

RE: former Chevron Service Station 9-4816, 301-14th St., Oakland CA 94612

Dear Mr. Briggs,

This letter is being sent to expound on the 6/27/97 letter signed by Dale Klettke of this office (while I was on vacation). This office has received and reviewed the following documents:

- 1) "Final Remediation Status Report and Request for no Further Action" report, prepared by Terra Vac (TV), dated 11/14/96;
- 2) Revised (draft and unsigned) "Final Remediation Status Report and Request for no Further Action" report, prepared by Terra Vac (TV), dated 3/25/97;
- 3) letter from TV dated 4/11/97 (notice of termination of air sparging operations); and
- 4) "Residual Management Plan," prepared by TV, dated 6/10/97.

Items #1, 2, and 4 document the use of Risk-Based Corrective Action (RBCA) to evaluate the risk of leaving residual concentrations of contaminants onsite. A Tier 2 risk assessment was conducted for this site. The risk assessment evaluated benzene as the single chemical of concern via the "groundwater to indoor air inhalation" pathway. The Site Specific Target Level (SSTL) was calculated as 2,600 ppb benzene in onsite groundwater. A commercial use scenario was used. [The soil pathway was evaluated and found to not pose a problem.]

The risk assessment with revisions is approved. No further active remediation is warranted. The groundwater at the site will continue to be monitored and sampled to ensure that passive bioremediation or natural attenuation is occurring. The sampling schedule is as follows: semi-annual sampling for the next 3 years for wells C-1, C-2, C-3, and CR-1; and annual sampling for the next 3 years for wells C-4 through C-9, MW-10, and MW-11. As per the 6/10/97 "Residual Management Plan," if the average concentration of the onsite wells exceed the SSTL (2,600 ppb benzene) during any sampling event, this office should be notified within 30 days of the sampling event, the well(s) will be resampled within 15 days of the sampling event.

