SECOR
International Incorporated

October 13, 2000

Can start to write up
if results of monitoring after
H_2O_2 addn are promising

Mr. Barney Chan
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

#554

ENVIRONMENTAL
PROTECTION
00 OCT 16 PM 4:15

Re: **Second Quarter – Quarterly Groundwater Monitoring Report**
Former Penske Truck Leasing Facility
725 Julie Ann Way
Oakland, CA

Dear Mr. Chan:

SECOR International Incorporated (SECOR) is pleased to submit this Quarterly Groundwater Monitoring Report for the Second Quarter 2000, on behalf of Penske Truck Leasing Co., L.P. for the former Penske Truck Leasing Facility at 725 Julie Ann Way, Oakland, California (the Site). We have completed the third quarter monitoring and the Fenton's reagent treatment and anticipate having monitoring results for you by mid-November.

If you should have any questions concerning this project, please contact Richard G. Saut at (610) 775-7298 or Angus McGrath at (510) 285-2556.

x 228

Sincerely,

SECOR International Incorporated

Angus E. McGrath, Ph.D.
Principal Geochemist

Attachment
Quarterly Groundwater Monitoring Report for the Second Quarter 2000

cc: Mr. Richard Saut, Penske Truck Leasing Co.
Mr. Don Pratt, SECOR International Inc.

360-22nd Street, Suite 600, Oakland, CA 94612 (510) 285-2556 (510) 285-2568 Fax www.secor.com

August 18, 2000

SECOR
International Incorporated

Mr. Barney Chan
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite #250
Alameda, CA 94502-6577

RE: QUARTERLY GROUNDWATER MONITORING REPORT FOR THE SECOND QUARTER 2000, PENSKE TRUCK LEASING FACILITY, 725 JULIE ANN WAY, OAKLAND, CALIFORNIA

Dear Mr. Chan:

SECOR International Incorporated (SECOR) is pleased to submit the Second Quarter Groundwater Monitoring Report presenting the results of groundwater monitoring conducted on June 28 and 29, 2000, at the former Penske Truck Leasing Co. (Penske) facility, 725 Julie Ann Way, Oakland, California (the Site, see Figure 1, Site Location Map). We are submitting this document on behalf of the Penske Truck Leasing Company (Penske) who formerly operated the Site as a truck leasing facility. The scope of work performed was in accordance with the requirements set by the Alameda County Health Services (ACEHS) and the San Francisco Bay Water Quality Control Board (SFRWQCB) in their letter March 25, 1994.

GROUNDWATER MONITORING PROCEDURES

On June 28 and 29, 2000, SECOR sounded, purged, and sampled eight monitoring wells (MW-1,-2,-4,-5, -7,-8, OW-1, and OW-2) using an electronic water-level indicator, a diaphragm pump for purging, and clean disposable bailers to obtain water samples. The depth-to-water, reference water level elevation, and corrected water level elevations were recorded on the Water Sample Field Data Sheet included in Appendix A. The water-level indicator was rinsed with deionized water between the sounding of each well to prevent cross contamination. All eight groundwater monitoring wells were also measured for pH, temperature, specific conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP). The measurements were recorded on the Water Sample Field Data Sheets included in Appendix A. ORP, pH, temperature, and specific conductivity were measured using a Horiba model D-22 meter. DO was measured using a YSI model 51B DO meter.

Prior to sampling, wells were purged of approximately three well casing volumes of water using a diaphragm pump. During purging, the evacuated water was periodically measured for pH, electrical conductivity, and temperature, and visual inspected for color and turbidity. All measured parameters and purge volumes for each well were recorded on the Water Sample Field Data Sheets included in Appendix A. Upon removal of the appropriate purge volume and stabilization of the measured parameters, samples were collected from each well using a disposable PVC bailer. Groundwater samples were transferred into preserved, labeled laboratory-supplied glassware, placed in an ice-filled cooler, and transferred under chain-of-custody to ChromaLab, Incorporated (ChromaLab) of Pleasanton, California, a state-certified laboratory.

Eight samples were submitted for chemical analysis of total petroleum hydrocarbons reported as gasoline (TPHg) by EPA Method 8015M and total extractable petroleum hydrocarbons (TEPH reported as diesel –

360-22nd Street, Suite 600, Oakland, CA 94612 (510) 285-2556 (510) 285-2568 Fax www.secor.com

TPHd, motor oil – TPHmo, kerosene - TPHk) by EPA Method 8015M, and benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertbutyl ether (MTBE) by EPA Method 8020. TPHd samples were pre-treated with silica-gel prior to analysis. Wells OW-1 and –2 were additionally analyzed for nitrate, sulfate, and ferrous iron. Ferrous iron was analyzed using a HACH field test kit. Laboratory analytical reports and chain-of-custody records are included in Appendix B.

SUMMARY OF RESULTS

Historical groundwater elevations including the current quarter are included in Table 1. Historical groundwater chemical results including the current quarter are included in Table 2. DO, pH, and ORP for the current quarter are included in Table 3.

Monitoring Well Soundings

A groundwater elevation contour map based on the June 28 and 29, 2000 elevation data is presented in Figure 2. The depth to water for the current quarter ranged from 4.95 feet to 6.71 feet below the top of the PVC well casing. These corresponded to elevations of –0.03 feet to –1.34 feet, based on surveying of the site wells and use of the City of Oakland datum. Groundwater elevations decreased in all wells, when compared to the March 14 and 15, 2000 monitoring results. Interpretation of the groundwater elevation contour map indicates that groundwater flow is directed towards well MW-6 which was the lowest point measured in March 2000.

Groundwater Chemical Results

Groundwater pH ranged from 6.34 to 8.86. Temperatures ranged from 19.4 to 26.0° Centigrade. Specific conductivity ranged from 263 to 994 micromhos per centimeter (µmhos/cm). Turbidity ranged from low to high, and color ranged from clear to yellow or light brown to grey. DO ranged from 0.55 to 5.76 mg/L (the elevated DO levels in wells MW-4, -7, OW-1 and –2, are due to aeration from the purging pump) and ORP ranged from –260 to +35 millivolts (mV). The pH, conductivity, temperature, and appearance are in the ranges that would be considered normal for sites in this area. The negative ORP and low DO levels (approximately 1 mg/L) are indicative of oxygen depleting conditions, indicating that microbial activity may be occurring in the groundwater. The depletion in oxygen is most likely a result of the microbial degradation of hydrocarbons in groundwater. Nitrate, sulfate, and iron concentrations in OW-1 and OW-2 were 4 mg/L, 5 mg/L, 2.2 mg/L, and 3 mg/L, 7 mg/L, and 2.6 mg/L for each analyte in each well respectively. The reduced nitrate and elevated dissolved iron concentrations are indicative of microbial activity.

Free product was observed in monitoring wells MW-1 and -7. TPHd concentrations ranged from non-detect (MW-2) to 2,900,000 µg/L (MW-7). TPHg concentrations ranged from non-detect (MW-2, -5, -8) to 3200 µg/L (MW-7). Benzene concentrations ranged from non-detect (MW-2, -4, -5 and -8) to 26 µg/L (MW-1). Toluene was not detected in any of the wells this quarter. Ethylbenzene concentrations ranged from non-detect (MW-1, -2, -4, -5, -8, OW-1, and -2) to 3.2 µg/L (MW-7), and xylenes concentrations ranged from non-detect (MW-2, -4, -5, -8, and OW-2) to 30 µg/L (MW-7). TPHmo was not detected in any of the wells this quarter.

Overall TPHd and TPHg concentrations remained in the range of historical values observed in each well. BTEX concentrations decreased or remained the same in all wells except in OW-1, where benzene increased from 1.7 to 4 µg/L. MTBE was detected in monitoring well OW-1 at 6.6 µg/L and OW-2 at 13

µg/L. Historically MTBE has only been detected in monitoring well MW-5 at 5 µg/L (which is the reporting limit for the analysis) and 16 µg/L in OW-2.

Based on the results presented in this report, natural attenuation may be occurring at the site in the source area. The ACEHS has previously stated for another site on Julie Ann Way, that TPHg and BTEX concentrations in approximately the same range as at the Penske site "would pass a Tier 1 Risk Based Corrective Action (RBCA) evaluation." Penske currently plans to move forward with Fenton's reagent treatment on the site in order to reduce overall hydrocarbon concentrations in the highly impacted zones. Pending the results of the treatment, Penske plans to move forward with a request for Site closure.

If you should have any questions regarding the results detailed in this report, please contact Richard G. Saut at (610) 775-6010 or Angus E. McGrath at (510) 285-2556 extension 228.

Sincerely,

SECOR International Incorporated

Angus E. McGrath, Ph.D.
Principal Geochemist

Exactly for

Don Pratt
Project Manager

Reviewed by:

Bruce E. Scarbrough, R.G.
Principal Geologist

REGISTERED GEOLOGIST
BRUCE SCARBROUGH
No. 4931
STATE OF CALIFORNIA

Attachments:

Table 1 - Chronological Listing of Groundwater Elevation Data
Table 2 - Chronological Listing of Groundwater Analytical Results
Table 3 - pH, Dissolved Oxygen, and Oxidation Reduction Potential Measurements Results

TABLE 1
CHRONOLOGICAL LISTING OF
GROUNDWATER ELEVATION DATA
PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way
Oakland, California

WELL NO.	DATE	RE (FEET)[1]	DTW (FEET)	GWE (FEET)
MW-1	02/20/97	5.43	5.41	0.02
	05/28/97		5.98	-0.55
	09/19/97		6.45	-1.02
	11/17/97		6.14	-0.71
	02/27/98		4.83	0.60
	05/27/98		6.42	-0.99
	10/01/98		6.49	-1.06
	12/22/98		6.35	-0.92
	12/28/99		7.34	-1.91
	03/14/00		4.95	0.48
	06/28/00		5.54	-0.11
MW-2	02/20/97	6.20	6.26	-0.06
	05/28/97		6.65	-0.45
	09/19/97		6.90	-0.70
	11/17/97		6.75	-0.55
	02/27/98		5.31	0.89
	05/27/98		5.87	0.33
	10/01/98		6.95	-0.75
	12/22/98		6.70	-0.50
	12/28/99		7.08	-0.88
	03/15/00		5.45	0.75
	06/28/00		6.37	-0.17
MW-3	02/20/97	6.10	6.36	-0.26
	05/28/97		6.62	-0.52
	09/19/97		6.83	-0.73
	11/17/97		6.77	-0.67
	02/27/98		5.38	0.72
	05/27/98		6.05	0.05
	10/01/98		6.95	-0.85
	12/22/98		6.73	-0.63
	12/28/99		7.22	-1.12
	03/14/00		NM	NM
	06/28/00		6.37	-0.27
MW-4	02/20/97	5.18	5.29	-0.11
	05/28/97		5.66	-0.48
	09/19/97		6.00	-0.82
	11/17/97		6.06	-0.88
	02/27/98		4.66	0.52
	05/27/98		5.98	-0.80
	10/01/98		5.23	-0.05
	12/22/98		6.57	-1.39
	12/28/99		6.54	-1.36
	03/14/00		4.86	0.32
	06/28/00		5.55	-0.37
MW-5	02/20/97	4.71	4.68	0.03
	05/28/97		5.21	-0.50
	09/19/97		5.43	-0.72
	11/17/97		5.28	-0.57
	02/27/98		4.10	0.61
	05/27/98		5.40	-0.69
	10/01/98		5.42	-0.71
	12/22/98		5.40	-0.69
	12/28/99		5.73	-1.02
	03/14/00		NM	NM
	06/28/00		5.11	-0.40

TABLE 1
CHRONOLOGICAL LISTING OF
GROUNDWATER ELEVATION DATA
PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way
Oakland, California

WELL NO.	DATE	RE (FEET)[a]	DTW (FEET)	CWTE (FEET)
MW-6	02/20/97	5.37	5.38	-0.01
	05/28/97		5.93	-0.56
	09/19/97		6.15	-0.78
	11/17/97		6.06	-0.69
	02/27/98		4.74	0.63
	05/27/98		5.40	-0.03
	10/01/98		6.37	-1.00
	12/22/98		6.06	-0.69
	12/28/99		6.40	-1.03
	03/14/00		NM	NM
	06/28/00		6.71	-1.34
MW-7	02/20/97	5.38	5.70	-0.32
	05/28/97		5.46	-0.08
	09/19/97		5.91	-0.53
	11/17/97		5.59	-0.21
	02/27/98		4.68	0.70
	05/27/98		5.17	0.21
	10/01/98		5.80	-0.42
	12/22/98		5.78	-0.40
	12/28/99		7.72	-2.34
	03/14/00		4.50	0.88
	06/28/00		5.51	-0.13
MW-8	02/20/97	5.44	5.10	0.34
	05/28/97		5.68	-0.24
	09/19/97		5.95	-0.51
	11/17/97		5.91	-0.47
	02/27/98		4.50	0.94
	05/27/98		6.10	-0.66
	10/01/98		6.13	-0.69
	12/22/98		6.10	-0.66
	12/28/99		6.30	-0.86
	03/14/00		5.01	0.43
	06/28/00		5.47	-0.03
OW-1	12/28/99		5.77	NA
	03/15/00		4.47	NA
	06/29/00		4.95	NA
OW-2	12/28/99		6.08	NA
	03/15/00		4.76	NA
	06/29/00		5.15	NA

Notes:

RE - Reference Elevation
DTW - Depth to Water
CWTE - Corrected Water Table Elevation
(a) - All well elevations resurveyed to site benchmark on February 10, 1993.
NM - Not Measured
NA - Not Available

TABLE 2
CHRONOLOGICAL LISTING OF
GROUNDWATER ANALYTICAL RESULTS
PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way
Oakland, California

WELL NO.	DATE	CONCENTRATIONS (ug/L) TPHd	TPHg	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	MTBE
MW-1	02/20/97	200,000	2,900[a]	260	61	42	96	NS
	05/28/97	28,000[b]	2,100	230	42	55	110	NS
	09/19/97	2,700,000	110,000	230	140	250	700	ND
	11/17/97	950,000[c]	40,000[c]	240[c]	190[c]	270[c]	880[c]	ND[c]
	02/27/98	1,200,000	380,000	50	50	200	800	ND
	05/27/98	280,000	13,000	110	13	66	390	ND
	10/01/98	63,000	1,300[d]	43	1.2	15	84	ND
	12/22/98	79,000[e,f]	2,000[e,g]	32[e]	ND[e]	23[e]	130[e]	ND
	12/28/99	43000	1,700	49	1.3	11	24	ND
	03/14/00	4,300	540	59	1.3	12	23	NA
	06/28/00	290,000*	1,300#	26	ND	ND	23	ND
MW-2	02/20/97	1,000[h]	ND	ND	ND	ND	ND	NS
	05/28/97	3,700[b,h]	ND	ND	ND	ND	ND	NS
	09/19/97	4,100	ND	ND	ND	ND	ND	ND
	11/17/97	1,300	ND	ND	ND	ND	ND	ND
	02/27/98	340	ND	ND	0.9	ND	ND	ND
	05/27/98	1,300	ND	ND	ND	ND	ND	ND
	10/01/98	3,500[i]	3,200[d]	ND	ND	ND	ND	ND
	12/22/98	1,200[j,k]	67[d]	ND	ND	ND	ND	ND
	12/28/99	750	ND	ND	ND	ND	ND	ND
	03/15/00	92	ND	ND	ND	ND	ND	ND
	06/28/00	ND	ND	ND	ND	ND	ND	ND
MW-3	02/20/97	140[h]	ND	ND	ND	ND	ND	NS
	05/28/97	240[b,h]	ND	ND	ND	ND	ND	NS
	09/19/97	ND	ND	0.7	ND	ND	ND	ND
	11/17/97	ND	ND	ND	ND	ND	ND	ND
	02/27/98	ND	ND	ND	ND	ND	ND	ND
	05/27/98	ND	ND	ND	ND	ND	ND	ND
	10/01/98	56[l]	ND	ND	ND	ND	ND	ND
	12/22/98	NS	NS	NS	NS	NS	NS	NS
	12/28/99	NS	NS	NS	NS	NS	NS	NS
	03/14/00	NS	NS	NS	NS	NS	NS	NS
	06/28/00	NS	NS	NS	NS	NS	NS	NS
MW-4	02/20/97	470,000	64,000[m]	ND	ND	ND	ND	NS
	05/28/97	1,000,000[b]	11,000[m]	ND	ND	ND	ND	NS
	09/19/97	2,600,000	37,000	260	ND	ND	ND	ND
	11/17/97	57,000[c]	4,400[c]	25[c]	ND[c]	ND[c]	ND[c]	ND[c]
	02/27/98	9,300	580	2.7	0.8	0.8	3	ND
	05/27/98	11,000	3,900	1.4	0.6	ND	ND	ND
	10/01/98	670,000	2,400[n]	5.7	ND	ND	4.6	ND
	12/22/98	3,700[e,o]	ND[p]	ND[p]	ND[p]	ND[p]	ND[p]	ND[p]
	12/28/99	5,800	1,000	ND	ND	ND	ND	ND
	03/14/00	4,800	350	ND	ND	ND	ND	NA

TABLE 2
CHRONOLOGICAL LISTING OF
GROUNDWATER ANALYTICAL RESULTS
PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way
Oakland, California

WELL NO.	DATE	CONCENTRATIONS (ug/L) TPHd	TPHg	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	MTBE
MW-4	06/28/00	8,400*	120#	ND	ND	ND	ND	ND
MW-5	02/20/97	1,100[h]	ND	ND	ND	ND	ND	NS
	05/28/97	560[b,q]	60[m]	ND	ND	ND	ND	NS
	09/19/97	1,000	70	ND	ND	ND	ND	ND
	11/17/97	1,100	70	0.6	0.7	0.5	ND	5
	02/27/98	ND	ND	ND	ND	ND	ND	5
	05/27/98	770	ND	ND	ND	ND	ND	ND
	10/01/98	630	ND	ND	ND	ND	ND	ND
	12/22/98	890[r]	ND	ND	ND	ND	ND	ND
	12/28/99	440	ND	ND	ND	ND	ND	ND
	03/15/00	NS	NS	NS	NS	NS	NS	NS
	06/28/00	110*	ND	ND	ND	ND	ND	ND
MW-6	02/20/97	NS	NS	NS	NS	NS	NS	NS
	05/28/97	NS	NS	NS	NS	NS	NS	NS
	09/19/97	NS	NS	NS	NS	NS	NS	NS
	11/17/97	NS	NS	NS	NS	NS	NS	NS
	02/27/98	NS	NS	NS	NS	NS	NS	NS
	05/27/98	NS	NS	NS	NS	NS	NS	NS
	10/01/98	NS	NS	NS	NS	NS	NS	NS
	12/22/98	NS	NS	NS	NS	NS	NS	NS
	12/28/99	NS	NS	NS	NS	NS	NS	NS
	03/15/00	NS	NS	NS	NS	NS	NS	NS
	06/28/00	NS	NS	NS	NS	NS	NS	NS
MW-7	02/20/97	1,500,000	15,000[m]	81	51	ND	ND	NS
	05/28/97	440,000[b]	390,000[m]	ND	ND	ND	ND	NS
	09/19/97	910,000	3,600	110	64	37	ND	ND
	11/17/97	18,000,000[c]	15,000[c]	110[c]	41[c]	12[c]	110[c]	ND[c]
	02/27/98	290,000	45,000	80	60	ND	ND	ND
	05/27/98	1,600	140	2.3	0.9	0.9	3	ND
	10/01/98	89,000	710[n]	39	2.4	11	31	ND
	12/22/98	240,000[o]	3,900[g]	51	ND	ND	ND	ND
	12/28/99	300,000	2,300	51	5.3	13	27	ND
	03/14/00	640,000	620	31	5.3	9.9	31	NA
	06/28/00	2,900,000	3,200#	15	ND	3.2	30	ND
MW-8	02/20/97	2,500	340[a]	2.1	53	7.1	94	NS
	05/28/97	200[b,s]	480[a]	2.5	12	ND	76	NS
	09/19/97	7,000	1,000	0.8	5	0.5	130	ND
	11/17/97	520	250	1.4	2.1	0.7	3	ND
	02/27/98	150	ND	ND	ND	ND	ND	ND
	05/27/98	70	ND	ND	ND	ND	ND	ND
	10/01/98	440[t]	ND	ND	ND	ND	ND	ND
	12/22/98	NS	NS	NS	NS	NS	NS	NS
	12/28/99	130	ND	ND	ND	ND	ND	ND

TABLE 2
CHRONOLOGICAL LISTING OF
GROUNDWATER ANALYTICAL RESULTS
PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way
Oakland, California

WELL NO.	DATE	CONCENTRATIONS (ug/L) TPHd	TPHg	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	MTBE
MW-8	03/14/00	170	ND	ND	ND	ND	ND	NA
Cont.	06/28/00	300*	ND	ND	ND	ND	ND	ND
OW-1	12/28/99	7,700	3,400	11	ND	ND	2.6	ND
	03/15/00	5,300	700	1.7	ND	ND	ND	ND
	06/29/00	1,300*	140#	4	ND	ND	2.2	6.6
OW-2	12/28/99	3,300	770	36	ND	ND	1.7	16
	03/15/00	1,100	350	24	ND	ND	ND	9.3
	06/29/00	850*	160#	7.4	ND	ND	ND	13

Notes:

mg/L - micrograms per liter
TPHd - Total Petroleum Hydrocarbons as diesel
TPHg - Total Petroleum Hydrocarbons as gasoline
MTBE - Methyl tert butyl ether
NS - Well not sampled
ND - Not detected at or above the laboratory detection limit
NA - Not analyzed

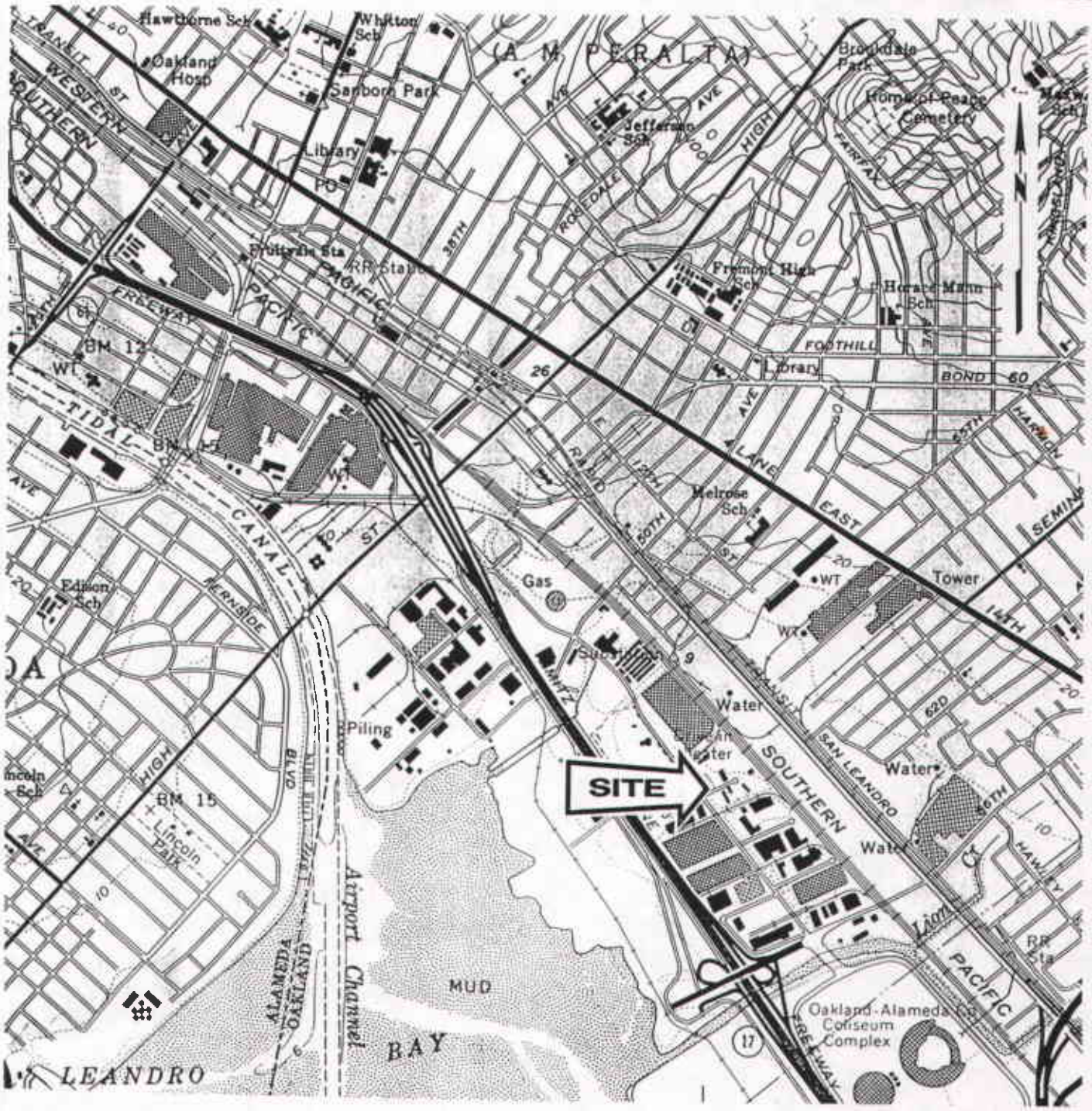
(a) - Laboratory reports that chromatogram indicates gasoline and unidentified hydrocarbons >C8.
(b) - Laboratory reports that the laboratory control sample failed for this batch, as well as when it was initially analyzed on 6/3/97. All results should be considered as estimated values. No additional sample was available for re-extraction.
(c) - Laboratory reports reporting limits for diesel and gas/BTEX elevated due to high levels of target compound. Samples run at dilution.
(d) - Laboratory reports the peak pattern present in this sample represents an unknown mixture atypical of gasoline in the range of n-C09 to greater than n-C12. Quantitation is based on a gasoline reference in the range of n-C07 to n-C12 only.
(e) - Laboratory reports reporting limit(s) raised due to high level of analyte present in sample.
(f) - Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C09 to n-C36. Quantitation is based on a diesel reference between n-C10 and n-C24 only.
(g) - Laboratory reports the peak pattern present in this sample represents an unknown mixture atypical of gasoline in the range of n-C10 to greater than n-C12. Quantitation is based on a gasoline reference in the range of n-C07 to n-C12 only.
(h) - Laboratory reports that chromatogram indicates diesel and unidentified hydrocarbons >C20.
(i) - Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C08 to n-C40. Quantitation is based on a diesel reference between n-C10 and n-C24 only.
(j) - Analyzed by USEPA Method 8015, modified.
(k) - Analyzed by USEPA Method 8020.
(l) - Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C12 to n-C28. Quantitation is based on a diesel reference between n-C10 and n-C24 only.
(m) - Laboratory reports that chromatogram indicates unidentified hydrocarbons >C8.
(n) - Laboratory reports the peak pattern present in this sample represents an unknown mixture atypical of gasoline in the range of n-C07 to greater than n-C12. Quantitation is based on a gasoline reference in the range of n-C07 to n-C12 only.
(o) - Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C10 to n-C26. Quantitation is based on a diesel reference between n-C10 and n-C24 only.
(p) - Diesel range concentration reported. A nonstandard diesel pattern was observed in the chromatogram.
(q) - Laboratory reports that chromatogram indicates diesel and unidentified hydrocarbons >C24.
(r) - Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C10 to n-C40. Quantitation is based on a diesel reference between n-C10 and n-C24 only.
(s) - Laboratory reports that chromatogram indicates diesel and unidentified hydrocarbons >C15.
(t) - Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C10 to n-C28. Quantitation is based on a diesel reference between n-C10 and n-C24 only.
* - Hydrocarbon reported does not match the diesel standard.
\# - Hydrocarbon reported (in the gasoline range) does not match lab standard.

TABLE 3
PH, DISSOLVED OXYGEN, AND OXIDATION REDUCTION POTENTIAL MEASUREMENTS
PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way
Oakland, California

WELL NO.	DATE	pH (units)	D.O. (mg/L)	ORP (millivolts)
MW-1	12/28/99	7.92	0.87	-211
	03/14/00	7.29	1.12	-23
	06/28/00	8.26	0.55	-248
MW-2	12/28/99	7.94	0.96	-38
	03/15/00	7.28	1.43	-255
	06/28/00	7.52	0.89	-221
MW-3	12/28/99	NM	NM	NM
	03/14/00	NM	NM	NM
	06/28/00	NM	NM	NM
MW-4	12/28/99	7.38	0.80	-201
	03/14/00	6.97	2.11	35
	06/28/00	6.87	3.57	-34
MW-5	12/28/99	7.55	1.14	-118
	03/14/00	NM	NM	NM
	06/28/00	7.57	1.79	-103
MW-6	12/28/99	NM	NM	NM
	03/14/00	NM	NM	NM
	06/28/00	NM	NM	NM
MW-7	12/28/99	7.94	1.30	-58
	03/14/00	7.23	1.05	-260
	06/28/00	7.18	5.76	-164
MW-8	12/28/99	7.79	0.42	-136
	03/14/00	7.05	1.53	-27
	06/28/00	8.86	1.87	-77
OW-1	12/28/99	7.67	0.99	-89
	03/15/00	7.31	1.16	-55
	06/29/00	6.34	3.29	-48
OW-2	12/28/99	7.69	1.79	-58
	03/15/00	7.25	0.99	-35
	06/29/00	6.44	2.39	-66

Notes:

D.O. - Dissolved Oxygen
mg/L - milligrams per liter
ORP - Oxidation Reduction Potential
NM - Not Measured



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
OAKLAND EAST, CALIFORNIA
(PHOTOREVISED 1980)

0 2000 4000
SCALE IN FEET

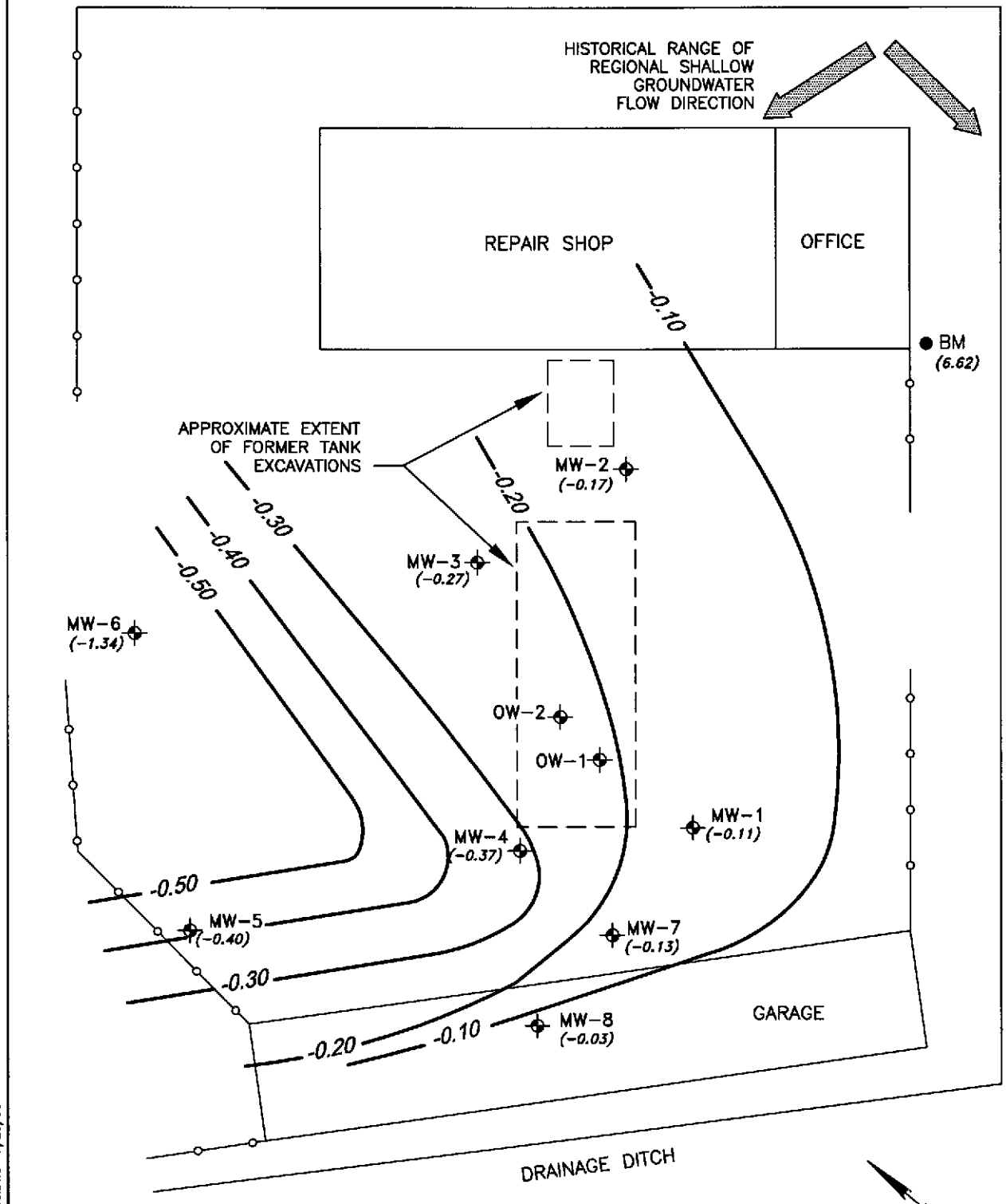
SECOR
International Incorporated

DRAWN	GEL
APPR	AEM
DATE	10NOV99
JOB NO.	014.07694.001

FIGURE 1
FORMER PENSKE TRUCKING COMPANY
725 JULIE ANN WAY
OAKLAND, CALIFORNIA

SITE LOCATION MAP

199812.271039 X:\OAKLAND\ACAD\PENSKE\PENSKE-014.07694.001-001.DWG 2/21/00



LEGEND

- MW-1 — APPROXIMATE LOCATION OF EXISTING GROUNDWATER WELLS
- BM — SURVEY BENCH MARK (BASED ON CITY OF OAKLAND DATUM
- (-0.11) — GROUNDWATER ELEVATION IN FEET 6/28/00–6/29/00
- -0.30 — GROUNDWATER ELEVATION CONTOUR (FEET)
- FENCE

0 40 80

SCALE IN FEET

SECOR
International Incorporated

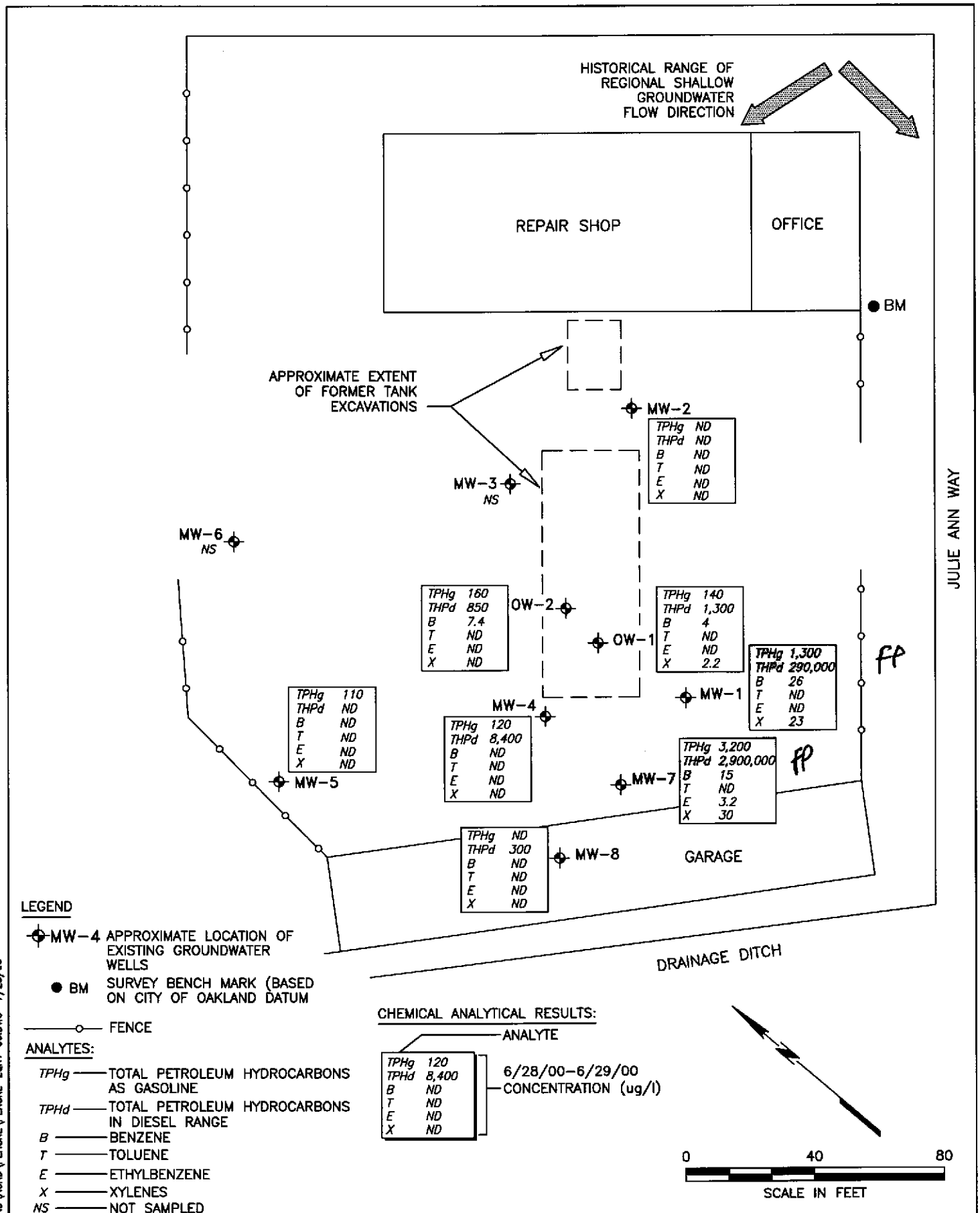
DRAWN	GEL
APPR	AMcG
DATE	22 JULY 00
JOB NO.	014.07701.002

FIGURE 2

FORMER PENSKE TRUCKING COMPANY
725 JULIE ANN WAY
OAKLAND, CALIFORNIA

SHALLOW GROUNDWATER CONTOURS 2ND QUARTER, 2000

199812.271039 X:\OAKLAND\ACAD\PENSKE\PENSKE-2QRT-00.DWG 7/25/00



SECOR
International Incorporated

DRAWN	GEL
APPR	AMcG
DATE	22 JULY 00
JOB NO.	014.07701.002

FIGURE 3
FORMER PENSKE TRUCKING COMPANY
725 JULIE ANN WAY
OAKLAND, CALIFORNIA

PETROLEUM HYDROCARBON CONCENTRATIONS 2ND QUARTER, 2000

199812.271039 X:\OAKLAND\ACAD\PENSKE\PENSKE-2QRT-00.DWG 7/25/00

APPENDIX A

WATER SAMPLE FIELD DATA SHEETS

HYDROLOGIC DATA SHEET

DATE: 6/28/00 PROJECT: Former Peake Trucking PROJECT # 014.07701.002

EVENT: 2nd Qtr SAMPLER: Stu Dykes

WELL OR LOCATION	TIME	MEASUREMENT					COMMENTS
		TOC	DTW	DTP	PT	ELEV	
MW-1		✓	5.54	5.24	3/10"	✓	Strong hydrocarbon odor free phase 3/10"
MW-2		✓	6.37	✓	✓	✓	✓
MW-3		✓	6.37	✓	✓	✓	✓
MW-4		✓	5.55	5.55	trace Beads	✓	Strong odor hydrocarbon
MW-5		✓	5.11	✓	✓	✓	✓
MW-6		✓	6.71	✓	✓	✓	✓
MW-7		✓	5.51	5.35	1 1/2"	✓	Strong hydrocarbon odor 1 1/2" free phase
MW-8		✓	5.47	trace beads	N/A	✓	hydrocarbon odor
OW-1		✓	4.95	✓	✓	✓	Clear Slight odor
OW-2		✓	5.15	✓	✓	✓	Slight odor

CODES: TOC - TOP OF CASING (FEET, RELATIVE TO MEAN SEA LEVEL)
DTW - DEPTH TO WATER (FEET)
DTP - DEPTH TO PRODUCT (FEET)
PT - PRODUCT THICKNESS (FEET)
ELEV - GROUNDWATER ELEVATION (FEET, RELATIVE TO MEAN SEA LEVEL)

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701.002 PURGED BY: DC WELL I.D.: MW-1

CLIENT NAME: Former Penske Trucking SAMPLED BY: Stu SAMPLE I.D.: MW-1

LOCATION: 725 Julie Ann Way Oakland QA SAMPLES: None

DATE PURGED 6/28 START (2400hr) 12:35 END (2400hr) 13:10

DATE SAMPLED 6/28 SAMPLE TIME (2400hr) 14:55

SAMPLE TYPE: Groundwater X Surface Water ___ Treatment Effluent ___ Other ___

CASING DIAMETER: 2" ___ (0.17) 3" ___ (0.38) 4" X (0.67) 5" ___ (1.02) 6" ___ (1.50) 8" ___ (2.60) Other ___ ( )

Casing Volume: (gallons per foot)

DEPTH TO BOTTOM (feet) = 34.00 CASING VOLUME (gal) = 19.07

DEPTH TO WATER (feet) = 5.54 CALCULATED PURGE (gal) = 57.20

WATER COLUMN HEIGHT (feet) = 28.46 ACTUAL PURGE (gal) = 60

FIELD MEASUREMENTS

6/28

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm) — not potable	pH (units)	COLOR (visual)	TURBIDITY (NTU)	ORP =
DO								
56.5/4.64	12:45	20	26.0	4.87 x1000	7.10	brown	high	-14mV
70.0/5.78	12:55	40	25.1	5.51 x1000	6.98	clear	low	-45mV
64.7/5.31	13:10	60	25.4	5.59 x1000	7.01	clear	low	-100mV
6.4/0.55		Sample	22.6	6.19 x1000	8.26	clear with 0.1	low	-248mV
~~2.4/1.87~~	14:55	—	19.4	~~5.51 x1000~~	8.86	~~clear~~	~~low~~	-77

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: ___ SAMPLE TURBIDITY: ___

80% RECHARGE: X YES ___ NO ANALYSES: see COC

ODOR: Strong - yes SAMPLE VESSEL / PRESERVATIVE: 1 Amber Liter / 3 VOAs

PURGING EQUIPMENT

___ Bladder Pump
X Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
X Dedicated tubing

Other: ___

Pump Depth: ___

SAMPLING EQUIPMENT

___ Bladder Pump
___ Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
X Bailer (___ PVC or X disposable)
___ Bailer (Stainless Steel)
___ Dedicated ___

Other: ___

WELL INTEGRITY: Good LOCK#: ___

REMARKS: ___

SIGNATURE: Ben Cardiff

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701.002 PURGED BY: DC WELL I.D.: MW-2

CLIENT NAME: Former Penske Trucking SAMPLED BY: Stu SAMPLE I.D.: MW-2

LOCATION: 725 Julie Ann Way Oakland QA SAMPLES: None

DATE PURGED 6/28 START (2400hr) 10:40 END (2400hr) 11:05

DATE SAMPLED 6/28 SAMPLE TIME (2400hr) 14:15

SAMPLE TYPE: Groundwater X Surface Water ___ Treatment Effluent ___ Other ___

CASING DIAMETER: 2" ___ (0.17) 3" ___ (0.38) 4" X (0.67) 5" ___ (1.02) 6" ___ (1.50) 8" ___ (2.60) Other ___ ( )

Casing Volume: (gallons per foot)

DEPTH TO BOTTOM (feet) = 29.00 CASING VOLUME (gal) = 15.16

DEPTH TO WATER (feet) = 6.37 CALCULATED PURGE (gal) = 45.49

WATER COLUMN HEIGHT (feet) = 22.63 ACTUAL PURGE (gal) = 50.00

FIELD MEASUREMENTS

NOT POTABLE

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)	ORP
45.6/3.84	10:50	16	23.7	5.51 x1000	7.44	clear	low	+186
44.4/3.75	10:55	32	23.3	5.52 x1000	7.34	clear	low	+131
44.0/3.68	11:00	48	23.3	5.89 x1000	7.35	clear	low	+125
10.4/0.89	14:15	Sample	22.9	571	7.52	clear/grey	low	-221
								ER OB

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: ___ SAMPLE TURBIDITY: ___

80% RECHARGE: X YES ___ NO ANALYSES: see COC

ODOR: None SAMPLE VESSEL / PRESERVATIVE: 1 Amber Liter / 3 VOAs

PURGING EQUIPMENT

___ Bladder Pump
X Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
X Dedicated tubing
Other: ___
Pump Depth: ___

SAMPLING EQUIPMENT

___ Bladder Pump
___ Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
X Bailer (___ PVC or X disposable)
___ Bailer (Stainless Steel)
___ Dedicated ___
Other: ___

WELL INTEGRITY: Good LOCK#: ___

REMARKS: ___

SIGNATURE: Ben Cardiff

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701.002 PURGED BY: DC WELL I.D.: MW-4

CLIENT NAME: Former Penske Trucking SAMPLED BY: Stu SAMPLE I.D.: MW-4

LOCATION: 725 Julie Ann Way QA SAMPLES: None

DATE PURGED 6/28 START (2400hr) 15:55 END (2400hr) 16:35

DATE SAMPLED 6/28 SAMPLE TIME (2400hr) 16:40

SAMPLE TYPE: Groundwater X Surface Water ___ Treatment Effluent ___ Other ___

CASING DIAMETER: 2" ___ (0.17) 3" ___ (0.38) 4" X (0.67) 5" ___ (1.02) 6" ___ (1.50) 8" ___ (2.60) Other ___ ( )

Casing Volume: (gallons per foot)

DEPTH TO BOTTOM (feet) = 33.50 CASING VOLUME (gal) = 18.73

DEPTH TO WATER (feet) = 5.55 CALCULATED PURGE (gal) = 56.18

WATER COLUMN HEIGHT (feet) = 27.95 ACTUAL PURGE (gal) = 60.00

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)	ORP =
DO 39.7 3.29	16:15	20	24.8	9.94x1000	6.86	clear	low	-80 mV
40.0 3.37	16:25	40	24.8	7.41x1000	6.88	clear/grey	med	-61 mV
43.1 3.57	16:35	60	24.8	8.97x1000	6.87	clear/grey	med	-34 mV

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: ___ SAMPLE TURBIDITY: ___

80% RECHARGE: X YES ___ NO ANALYSES: see COC

ODOR: Strong - yes SAMPLE VESSEL / PRESERVATIVE: 1 Amber Liter / 3 VOAs

PURGING EQUIPMENT

___ Bladder Pump
X Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
X Dedicated tubing

Other: ___

Pump Depth: ___

SAMPLING EQUIPMENT

___ Bladder Pump
___ Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
X Bailer (___ PVC or X disposable)
___ Bailer (Stainless Steel)
___ Dedicated ___

Other: ___

WELL INTEGRITY: Good LOCK#: ___

REMARKS: ___

SIGNATURE: Ben Cardiff

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701.002 PURGED BY: DC WELL I.D.: MW-3 5

CLIENT NAME: Former Penske Trucking SAMPLED BY: Stv SAMPLE I.D.: MW-B5

LOCATION: 725 Julie Am Way Oakland QA SAMPLES: None

DATE PURGED 6/28 START (2400hr) 11:35 END (2400hr) 12:15

DATE SAMPLED 6/28 SAMPLE TIME (2400hr) 14:30

SAMPLE TYPE: Groundwater X Surface Water ___ Treatment Effluent ___ Other ___

CASING DIAMETER: 2" ___ (0.17) 3" ___ (0.38) 4" X (0.67) 5" ___ (1.02) 6" ___ (1.50) 8" ___ (2.60) Other ___ ( )

Casing Volume: (gallons per foot)

DEPTH TO BOTTOM (feet) = 31.20 CASING VOLUME (gal) = 16.64

DEPTH TO WATER (feet) = 6.37 CALCULATED PURGE (gal) = 49.91

WATER COLUMN HEIGHT (feet) = 24.83 ACTUAL PURGE (gal) = 50.00

FIELD MEASUREMENTS

DATE / DO	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)	ORP=
64.6/5.50	11:40	16.5	23.4	8.69×1000	7.19	yellow	med	+120
54.1/4.51	11:55	33.	24.4	6.78×1000	7.59	yellow	med	+96
51.6/4.17	12:15	49	26.0	6.72×1000	7.68	yellow	med	+112
20.3/1.79	14:30	Sample	21.4	397×1000	7.57	yellow/clear	med	-103

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: ___ SAMPLE TURBIDITY: ___

80% RECHARGE: X YES ___ NO ANALYSES: see COC

ODOR: None SAMPLE VESSEL / PRESERVATIVE: 1 Amber Liter / 3 VOAs

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
___ Bladder Pump	___ Bailer (Teflon)	___ Bladder Pump	___ Bailer (Teflon)
X Centrifugal Pump	___ Bailer (PVC)	___ Centrifugal Pump	X Bailer (___ PVC or X disposable)
___ Submersible Pump	___ Bailer (Stainless Steel)	___ Submersible Pump	___ Bailer (Stainless Steel)
___ Peristaltic Pump	X Dedicated Tubing	___ Peristaltic Pump	___ Dedicated ___
Other: ___		Other: ___	
Pump Depth: ___			

WELL INTEGRITY: Good LOCK#: ___

REMARKS: ___

SIGNATURE: Ryan Cardiff

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701.002 PURGED BY: SC WELL I.D.: MW-7

CLIENT NAME: Former Penske Trucking SAMPLED BY: Stu SAMPLE I.D.: MW-7

LOCATION: 725 Julie Ann Way Oakland QA SAMPLES: None

DATE PURGED 6/28 START (2400hr) 15:10 END (2400hr) 15:30

DATE SAMPLED 6/28 SAMPLE TIME (2400hr) 15:40

SAMPLE TYPE: Groundwater X Surface Water ___ Treatment Effluent ___ Other ___

CASING DIAMETER: 2" ___ 3" ___ 4" X 5" ___ 6" ___ 8" ___ Other ___

Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 28.50 CASING VOLUME (gal) = 14.73

DEPTH TO WATER (feet) = 6.51 CALCULATED PURGE (gal) = 44.19

WATER COLUMN HEIGHT (feet) = 21.99 ACTUAL PURGE (gal) = 45.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)	ORP
DO								
60.0/5.33	15:15	15	21.2	5.06x1000	7.92	clear	low	-200mV
62.5/5.56	15:23	30	21.2	5.01x1000	7.83	clear	low	-185mV
65.0/5.76	15:30	45	21.3	5.10x1000	7.18	clear	low	-164mV

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: ___ SAMPLE TURBIDITY: ___

80% RECHARGE: X YES ___ NO ANALYSES: see COC

ODOR: Strong - yes SAMPLE VESSEL / PRESERVATIVE: 1 Amber Liter / 3 VOAs

PURGING EQUIPMENT

___ Bladder Pump
X Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
X Dedicated tubing
Other: ___
Pump Depth: ___

SAMPLING EQUIPMENT

___ Bladder Pump
___ Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
X Bailer (___ PVC or X disposable)
___ Bailer (Stainless Steel)
___ Dedicated ___
Other: ___

WELL INTEGRITY: Good LOCK#: ___

REMARKS: ___

SIGNATURE: Stu Cardiff

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701.002 PURGED BY: DC WELL I.D.: MW-8

CLIENT NAME: Former Penske Trucking SAMPLED BY: Steve SAMPLE I.D.: MW-8

LOCATION: 725 Julie Ann Way Oakland WHAT QA SAMPLES?: None

DATE PURGED 6/28 START (2400hr) 11:10 END (2400hr) 11:35

DATE SAMPLED 6/28 SAMPLE TIME (2400hr) 14:45

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" ____ 3" ____ 4" X 5" ____ 6" ____ 8" ____ Other ____

Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 25.50 CASING VOLUME (gal) = 13.42

DEPTH TO WATER (feet) = 5.47 CALCULATED PURGE (gal) = 40.26

WATER COLUMN HEIGHT (feet) = 20.03 ACTUAL PURGE (gal) = 45.00

FIELD MEASUREMENTS

DATE / DO	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)	ORP (mV)
6/28 13.0/5.0	11:20	15	23.0	5.76x1000	7.44	clear/yellow	low	+95
6/28 6.02/5.11	11:25	30	23.2	6.30x1000	7.42	clear	low	+103
6/28 7.4/5.60	11:30	45	24.7	6.19x1000	7.44	clear	low	+103
		Sample						
20.4/1.87	14:45	—	19.4	5.51x1000	8.86	clear	low	-77

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: ____ SAMPLE TURBIDITY: N/A

80% RECHARGE: X YES ___ NO ANALYSES: see COC

ODOR: yes SAMPLE VESSEL / PRESERVATIVE: 1 Amber Liter / 3 VOAs

PURGING EQUIPMENT

____ Well Wizard Bladder Pump
____ Active Extration Well Pump
____ Submersible Pump
____ Peristaltic Pump
____ Bailer (Teflon)
____ Bailer (PVC or ___ disp)
____ Bailer (Stainless Steel)
X Dedicated tubing
Other: Centrifugal pump
Pump Depth: ____

SAMPLING EQUIPMENT

____ WW Bladder Pump
____ Sample Port
____ Submersible Pump
____ Peristaltic Pump
____ Bailer (Teflon)
X Bailer (___ PVC or X disposable)
____ Bailer (Stainless Steel)
____ Dedicated ____
Other: ____

WELL INTEGRITY: Good LOCK#: ____

REMARKS: ___ FOR WW PURGING: DISCHARGE TIME ____, REFILL TIME ____, AIR PRESSURE ____

SIGNATURE: Ben Cardiff

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701.002 PURGED BY: DC WELL I.D.: OW-1

CLIENT NAME: Former Penske Trucking SAMPLED BY: DC SAMPLE I.D.: OW-1

LOCATION: 725 Julie Ann Way Oakland WHAT QA SAMPLES?: None

DATE PURGED 6/29 START (2400hr) 10:10 END (2400hr) 10:30

DATE SAMPLED 6/29 SAMPLE TIME (2400hr) 10:45

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" ___ 3" ___ 4" X 5" ___ 6" ___ 8" ___ Other ___

Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 14.40 CASING VOLUME (gal) = 6.33

DEPTH TO WATER (feet) = 4.95 CALCULATED PURGE (gal) = 18.99

WATER COLUMN HEIGHT (feet) = 9.45 ACTUAL PURGE (gal) = 20.00

FIELD MEASUREMENTS

~~DATE~~ DO=	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)	DTW (ft)
D 42.6/3.77	10:10	6.5	21.1	2.87×1000	6.40	lt yellow	low ~~clear~~	9.95 +97mV
2 39.2/3.42	10:20	13	22.0	2.87×1000	6.42	lt yellow	low	-51mV
3 37.9/3.29	10:30	19.5	22.3	2.85×1000	6.34	lt yellow	low	-48mV
		(1) Fe^{2+} = 3.2 mg/L						
		(2) Fe^{2+} = 2.6 mg/L						
		(3) Fe^{2+} = 2.2 mg/L						

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: ____ SAMPLE TURBIDITY: ___N/A___

80% RECHARGE: X YES ___ NO ANALYSES: See COC

ODOR: slight SAMPLE VESSEL / PRESERVATIVE: 1 Amber Liter / 3 VOAs

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
___ Well Wizard Bladder Pump	___ Bailer (Teflon)	___ WW Bladder Pump	___ Bailer (Teflon)
___ Active Extration Well Pump	___ Bailer (PVC or ___ disp)	___ Sample Port	X Bailer (___ PVC or X disposable)
___ Submersible Pump	___ Bailer (Stainless Steel)	___ Submersible Pump	___ Bailer (Stainless Steel)
___ Peristaltic Pump	X Dedicated tubing	___ Peristaltic Pump	___ Dedicated ____
Other: Centrifugal pump		Other: ____	
Pump Depth: ____			

WELL INTEGRITY: Good LOCK#: ____

REMARKS: ___FOR WW PURGING: DISCHARGE TIME____,REFILL TIME____,AIR PRESSURE____

SIGNATURE: Brian Cardiff

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701.002 PURGED BY: DC WELL I.D.: OW-2

CLIENT NAME: Former Penske Trucking SAMPLED BY: DC SAMPLE I.D.: OW-2

LOCATION: 225 Julie Ann Way Oakland QA SAMPLES: None

DATE PURGED 6/29 START (2400hr) 10:50 END (2400hr) 11:20

DATE SAMPLED 6/29 SAMPLE TIME (2400hr) 11:30

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" ____ 3" ____ 4" X 5" ____ 6" ____ 8" ____ Other ____

Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 14.10 CASING VOLUME (gal) = 5.99

DEPTH TO WATER (feet) = 5.15 CALCULATED PURGE (gal) = ~18.00

WATER COLUMN HEIGHT (feet) = 8.95 ACTUAL PURGE (gal) = 19.00

FIELD MEASUREMENTS

DATE / DO=	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)	ORP
① 26.0/2.17	11:00	6	24.3	2.63x1000	6.35	clear	low	-88
② 28.4/2.38	11:10	12	24.3	2.68x1000	6.34	clear	low	-75
③ 29.0/2.39	11:20	18	24.8	2.71x1000	6.44	clear	low	-66
		①	Fe^{2+} = 3.8 mg/L					
		②	Fe^{2+} = 2.8 mg/L					
		③	Fe^{2+} = 2.6 mg/L					

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: ____ SAMPLE TURBIDITY: ____

80% RECHARGE: X YES ___ NO ANALYSES: See COC

ODOR: slight SAMPLE VESSEL / PRESERVATIVE: 1 Amber Liter / 3 VOAs

PURGING EQUIPMENT

X Bladder Pump
X Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
X Dedicated tubing

Other: ____

Pump Depth: ____

SAMPLING EQUIPMENT

___ Bladder Pump
___ Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
X Bailer (___ PVC or X disposable)
___ Bailer (Stainless Steel)
___ Dedicated ____

Other: ____

WELL INTEGRITY: Good LOCK#: ____

REMARKS: ____

SIGNATURE: Ben Cardiff

APPENDIX B

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY RECORDS

SECOR-Oakland
360 22nd Street, Suite 600
Oakland, CA 94612

Attn.: Angus McGrath

Project: 014.07701
Former Penske Trucking

Attached is our report for your samples received on Thursday June 29, 2000
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after July 29, 2000 unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: asalimpour@chromalab.com

Sincerely,

Afsaneh Salimpour

Gas/BTEX and MTBE

SECOR-Oakland

360 22nd Street, Suite 600
Oakland, CA 94612

Attn: Angus McGrath

Phone: (510) 285-2556 Fax: (510) 285-2568

Project #: 014.07701

Project: Former Penske Trucking

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	06/28/2000 14:55	1
MW-2	Water	06/28/2000 14:15	2
MW-4	Water	06/28/2000 16:40	3
MW-5	Water	06/28/2000 14:30	4
MW-7	Water	06/28/2000 15:40	5
MW-8	Water	06/28/2000 14:45	6
OW-1	Water	06/29/2000 10:45	7
OW-2	Water	06/29/2000 11:30	8

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-06-0590

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-1**	Lab Sample ID:	**2000-06-0590-001**
Project:	014.07701 Former Penske Trucking	Received:	06/29/2000 18:43
		Extracted:	07/07/2000 16:44
Sampled:	06/28/2000 14:55	QC-Batch:	2000/07/07-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1300	250	ug/L	5.00	07/07/2000 16:44	g
Benzene	26	2.5	ug/L	5.00	07/07/2000 16:44	
Toluene	ND	2.5	ug/L	5.00	07/07/2000 16:44	
Ethyl benzene	ND	2.5	ug/L	5.00	07/07/2000 16:44	
Xylene(s)	23	2.5	ug/L	5.00	07/07/2000 16:44	
MTBE	ND	25	ug/L	5.00	07/07/2000 16:44	
Surrogate(s)						
Trifluorotoluene	59.5	58-124	%	1.00	07/07/2000 16:44	
4-Bromofluorobenzene-FID	85.7	50-150	%	1.00	07/07/2000 16:44	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-2**	Lab Sample ID:	**2000-06-0590-002**
Project:	014.07701 Former Penske Trucking	Received:	06/29/2000 18:43
		Extracted:	07/06/2000 18:10
Sampled:	06/28/2000 14:15	QC-Batch:	2000/07/06-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/06/2000 18:10	
Benzene	ND	0.50	ug/L	1.00	07/06/2000 18:10	
Toluene	ND	0.50	ug/L	1.00	07/06/2000 18:10	
Ethyl benzene	ND	0.50	ug/L	1.00	07/06/2000 18:10	
Xylene(s)	ND	0.50	ug/L	1.00	07/06/2000 18:10	
MTBE	ND	5.0	ug/L	1.00	07/06/2000 18:10	
Surrogate(s)						
Trifluorotoluene	93.3	58-124	%	1.00	07/06/2000 18:10	
4-Bromofluorobenzene-FID	77.6	50-150	%	1.00	07/06/2000 18:10	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-4**	Lab Sample ID:	**2000-06-0590-003**
Project:	014.07701 Former Penske Trucking	Received:	06/29/2000 18:43
		Extracted:	07/07/2000 17:21
Sampled:	06/28/2000 16:40	QC-Batch:	2000/07/07-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	120	50	ug/L	1.00	07/07/2000 17:21	g
Benzene	ND	0.50	ug/L	1.00	07/07/2000 17:21	
Toluene	ND	0.50	ug/L	1.00	07/07/2000 17:21	
Ethyl benzene	ND	0.50	ug/L	1.00	07/07/2000 17:21	
Xylene(s)	ND	0.50	ug/L	1.00	07/07/2000 17:21	
MTBE	ND	5.0	ug/L	1.00	07/07/2000 17:21	
Surrogate(s)						
Trifluorotoluene	83.0	58-124	%	1.00	07/07/2000 17:21	
4-Bromofluorobenzene-FID	88.4	50-150	%	1.00	07/07/2000 17:21	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-5**	Lab Sample ID:	**2000-06-0590-004**
Project:	014.07701 Former Penske Trucking	Received:	06/29/2000 18:43
		Extracted:	07/06/2000 19:13
Sampled:	06/28/2000 14:30	QC-Batch:	2000/07/06-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/06/2000 19:13	
Benzene	ND	0.50	ug/L	1.00	07/06/2000 19:13	
Toluene	ND	0.50	ug/L	1.00	07/06/2000 19:13	
Ethyl benzene	ND	0.50	ug/L	1.00	07/06/2000 19:13	
Xylene(s)	ND	0.50	ug/L	1.00	07/06/2000 19:13	
MTBE	ND	5.0	ug/L	1.00	07/06/2000 19:13	
Surrogate(s)						
Trifluorotoluene	86.0	58-124	%	1.00	07/06/2000 19:13	
4-Bromofluorobenzene-FID	72.2	50-150	%	1.00	07/06/2000 19:13	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-7**	Lab Sample ID:	**2000-06-0590-005**
Project:	014.07701 Former Penske Trucking	Received:	06/29/2000 18:43
		Extracted:	07/07/2000 17:56
Sampled:	06/28/2000 15:40	QC-Batch:	2000/07/07-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	3200	250	ug/L	5.00	07/07/2000 17:56	g
Benzene	15	2.5	ug/L	5.00	07/07/2000 17:56	
Toluene	ND	2.5	ug/L	5.00	07/07/2000 17:56	
Ethyl benzene	3.2	2.5	ug/L	5.00	07/07/2000 17:56	
Xylene(s)	30	2.5	ug/L	5.00	07/07/2000 17:56	
MTBE	ND	25	ug/L	5.00	07/07/2000 17:56	
Surrogate(s)						
Trifluorotoluene	78.2	58-124	%	1.00	07/07/2000 17:56	
4-Bromofluorobenzene-FID	97.4	50-150	%	1.00	07/07/2000 17:56	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-8**	Lab Sample ID:	**2000-06-0590-006**
Project:	014.07701 Former Penske Trucking	Received:	06/29/2000 18:43
		Extracted:	07/07/2000 18:30
Sampled:	06/28/2000 14:45	QC-Batch:	2000/07/07-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/07/2000 18:30	
Benzene	ND	0.50	ug/L	1.00	07/07/2000 18:30	
Toluene	ND	0.50	ug/L	1.00	07/07/2000 18:30	
Ethyl benzene	ND	0.50	ug/L	1.00	07/07/2000 18:30	
Xylene(s)	ND	0.50	ug/L	1.00	07/07/2000 18:30	
MTBE	ND	5.0	ug/L	1.00	07/07/2000 18:30	
Surrogate(s)						
Trifluorotoluene	87.8	58-124	%	1.00	07/07/2000 18:30	
4-Bromofluorobenzene-FID	90.2	50-150	%	1.00	07/07/2000 18:30	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**OW-1**	Lab Sample ID:	**2000-06-0590-007**
Project:	014.07701 Former Penske Trucking	Received:	06/29/2000 18:43
		Extracted:	07/07/2000 23:08
Sampled:	06/29/2000 10:45	QC-Batch:	2000/07/07-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	140	50	ug/L	1.00	07/07/2000 23:08	g
Benzene	4.0	0.50	ug/L	1.00	07/07/2000 23:08	
Toluene	ND	0.50	ug/L	1.00	07/07/2000 23:08	
Ethyl benzene	ND	0.50	ug/L	1.00	07/07/2000 23:08	
Xylene(s)	2.2	0.50	ug/L	1.00	07/07/2000 23:08	
MTBE	6.6	5.0	ug/L	1.00	07/07/2000 23:08	
Surrogate(s)						
Trifluorotoluene	76.8	58-124	%	1.00	07/07/2000 23:08	
4-Bromofluorobenzene-FID	82.1	50-150	%	1.00	07/07/2000 23:08	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**OW-2**	Lab Sample ID:	**2000-06-0590-008**
Project:	014.07701 Former Penske Trucking	Received:	06/29/2000 18:43
		Extracted:	07/07/2000 22:32
Sampled:	06/29/2000 11:30	QC-Batch:	2000/07/07-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	160	50	ug/L	1.00	07/07/2000 22:32	g
Benzene	7.4	0.50	ug/L	1.00	07/07/2000 22:32	
Toluene	ND	0.50	ug/L	1.00	07/07/2000 22:32	
Ethyl benzene	ND	0.50	ug/L	1.00	07/07/2000 22:32	
Xylene(s)	ND	0.50	ug/L	1.00	07/07/2000 22:32	
MTBE	13	5.0	ug/L	1.00	07/07/2000 22:32	
Surrogate(s)						
Trifluorotoluene	77.7	58-124	%	1.00	07/07/2000 22:32	
4-Bromofluorobenzene-FID	72.1	50-150	%	1.00	07/07/2000 22:32	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank | **Water** | **QC Batch # 2000/07/06-01.02**

MB: 2000/07/06-01.02-001

Date Extracted: 07/06/2000 14:21

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	07/06/2000 14:21	
Benzene	ND	0.5	ug/L	07/06/2000 14:21	
Toluene	ND	0.5	ug/L	07/06/2000 14:21	
Ethyl benzene	ND	0.5	ug/L	07/06/2000 14:21	
Xylene(s)	ND	0.5	ug/L	07/06/2000 14:21	
MTBE	ND	5.0	ug/L	07/06/2000 14:21	
Surrogate(s)					
Trifluorotoluene	99.8	58-124	%	07/06/2000 14:21	
4-Bromofluorobenzene-FID	86.0	50-150	%	07/06/2000 14:21	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Method Blank | **Water** | **QC Batch # 2000/07/07-01.01**

MB: 2000/07/07-01.01-001

Date Extracted: 07/07/2000 08:30

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	07/07/2000 08:30	
Benzene	ND	0.5	ug/L	07/07/2000 08:30	
Toluene	ND	0.5	ug/L	07/07/2000 08:30	
Ethyl benzene	ND	0.5	ug/L	07/07/2000 08:30	
Xylene(s)	ND	0.5	ug/L	07/07/2000 08:30	
MTBE	ND	5.0	ug/L	07/07/2000 08:30	
Surrogate(s)					
Trifluorotoluene	86.4	58-124	%	07/07/2000 08:30	
4-Bromofluorobenzene-FID	84.6	50-150	%	07/07/2000 08:30	

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/07/06-01.02**

LCS: 2000/07/06-01.02-002 Extracted: 07/06/2000 14:52 Analyzed 07/06/2000 14:52

LCSD: 2000/07/06-01.02-003 Extracted: 07/06/2000 15:23 Analyzed 07/06/2000 15:23

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	501	506	500	500	100.2	101.2	1.0	75-125	20		
Benzene	86.9	98.1	100.0	100.0	86.9	98.1	12.1	77-123	20		
Toluene	84.7	95.8	100.0	100.0	84.7	95.8	12.3	78-122	20		
Ethyl benzene	79.9	90.8	100.0	100.0	79.9	90.8	12.8	70-130	20		
Xylene(s)	245	282	300	300	81.7	94.0	14.0	75-125	20		
Surrogate(s)											
Trifluorotoluene	408	469	500	500	81.6	93.8		58-124			
4-Bromofluorobenzene-FI	437	449	500	500	87.4	89.8		50-150			

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/07/07-01.01**

LCS: 2000/07/07-01.01-002 Extracted: 07/07/2000 09:04 Analyzed 07/07/2000 09:04

LCSD: 2000/07/07-01.01-003 Extracted: 07/07/2000 09:39 Analyzed 07/07/2000 09:39

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	496	449	500	500	99.2	89.8	9.9	75-125	20		
Benzene	97.9	97.7	100.0	100.0	97.9	97.7	0.2	77-123	20		
Toluene	92.4	92.8	100.0	100.0	92.4	92.8	0.4	78-122	20		
Ethyl benzene	95.3	96.4	100.0	100.0	95.3	96.4	1.1	70-130	20		
Xylene(s)	285	287	300	300	95.0	95.7	0.7	75-125	20		
Surrogate(s)											
Trifluorotoluene	429	440	500	500	85.8	88.0		58-124			
4-Bromofluorobenzene-FI	443	411	500	500	88.6	82.2		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-06-0590

To: **SECOR-Oakland**

Test Method: 8020
8015M

Attn.: Angus McGrath

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Matrix Spike (MS / MSD) **Water** **QC Batch # 2000/07/07-01.01**

Sample ID: **MW-8** Lab Sample ID: 2000-06-0590-006

MS: 2000/07/07-01.01-004 Extracted: 07/07/2000 19:05 Analyzed: 07/07/2000 19:05 Dilution: 1.0

MSD: 2000/07/07-01.01-005 Extracted: 07/07/2000 19:39 Analyzed: 07/07/2000 19:39 Dilution: 1.0

Compound	Conc. [ug/L]			Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Gasoline	487	806	ND	500	500	97.4	161.2	49.3	65-135	20		rpd
Benzene	95.1	90.5	ND	100.0	100.0	95.1	90.5	5.0	65-135	20		
Toluene	90.1	85.2	ND	100.0	100.0	90.1	85.2	5.6	65-135	20		
Ethyl benzene	92.1	87.1	ND	100.0	100.0	92.1	87.1	5.6	65-135	20		
Xylene(s)	275	259	ND	300	300	91.7	86.3	6.1	65-135	20		
Surrogate(s)												
Trifluorotoluene	416	392		500	500	83.2	78.4		58-124			
4-Bromofluorobenzene-F	415	495		500	500	83.0	99.0		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-06-0590

To: **SECOR-Oakland**

Test Method: 8020
8015M

Attn.: Angus McGrath

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Matrix Spike (MS / MSD) **Water** **QC Batch # 2000/07/06-01.02**

Sample ID: **MW-8** Lab Sample ID: 2000-06-0590-006

MS: 2000/07/06-01.02-004 Extracted: 07/06/2000 22:51 Analyzed: 07/06/2000 22:51 Dilution: 1.0

MSD: 2000/07/06-01.02-005 Extracted: 07/06/2000 23:22 Analyzed: 07/06/2000 23:22 Dilution: 1.0

Compound	Conc. [ug/L]			Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Gasoline	423	530	ND	500	500	84.6	106.0	22.5	65-135	20		rpd
Benzene	85.6	72.5	ND	100.0	100.0	85.6	72.5	16.6	65-135	20		
Toluene	83.4	70.6	ND	100.0	100.0	83.4	70.6	16.6	65-135	20		
Ethyl benzene	77.8	66.7	ND	100.0	100.0	77.8	66.7	15.4	65-135	20		
Xylene(s)	238	203	ND	300	300	79.3	67.7	15.8	65-135	20		
Surrogate(s)												
Trifluorotoluene	391	326		500	500	78.2	65.2		58-124			
4-Bromofluorobenzene-F	373	437		500	500	74.6	87.4		50-150			

To: **SECOR-Oakland**

Attn:Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Legend & Notes

Gas/BTEX and MTBE

QC Compound Flags

rpd

Analyte RPD was out of QC limits due to sample heterogeneity.

Analyte Flags

g

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

TEPH w/ Silica Gel Clean-up

SECOR-Oakland

360 22nd Street, Suite 600
Oakland, CA 94612

Attn: Angus McGrath

Phone: (510) 285-2556 Fax: (510) 285-2568

Project #: 014.07701

Project: Former Penske Trucking

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	06/28/2000 14:55	1
MW-2	Water	06/28/2000 14:15	2
MW-4	Water	06/28/2000 16:40	3
MW-5	Water	06/28/2000 14:30	4
MW-7	Water	06/28/2000 15:40	5
MW-8	Water	06/28/2000 14:45	6
OW-1	Water	06/29/2000 10:45	7
OW-2	Water	06/29/2000 11:30	8

To: **SECOR-Oakland**
Attn.: Angus McGrath

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

TEPH w/ Silica Gel Clean-up

Sample ID:	**MW-1**	Lab Sample ID:	**2000-06-0590-001**
Project:	014.07701 Former Penske Trucking	Received:	06/29/2000 18:43
		Extracted:	07/05/2000 12:25
Sampled:	06/28/2000 14:55	QC-Batch:	2000/07/05-04.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	290000	1000	ug/L	20.00	07/06/2000 02:08	ndp
Motor Oil	ND	10000	ug/L	20.00	07/06/2000 02:08	
Surrogate(s)						
o-Terphenyl	92.1	60-130	%	20.00	07/06/2000 02:08	

To: **SECOR-Oakland**
Attn.: Angus McGrath

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

TEPH w/ Silica Gel Clean-up

Sample ID:	**MW-2**	Lab Sample ID:	**2000-06-0590-002**
Project:	014.07701 Former Penske Trucking	Received:	06/29/2000 18:43
		Extracted:	07/05/2000 12:25
Sampled:	06/28/2000 14:15	QC-Batch:	2000/07/05-04.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/06/2000 00:11	
Motor Oil	ND	500	ug/L	1.00	07/06/2000 00:11	
Surrogate(s)						
o-Terphenyl	67.1	60-130	%	1.00	07/06/2000 00:11	

To: **SECOR-Oakland**
Attn.: Angus McGrath

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

TEPH w/ Silica Gel Clean-up

Sample ID:	**MW-4**	Lab Sample ID:	**2000-06-0590-003**
Project:	014.07701 Former Penske Trucking	Received:	06/29/2000 18:43
		Extracted:	07/05/2000 12:25
Sampled:	06/28/2000 16:40	QC-Batch:	2000/07/05-04.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	8400	50	ug/L	1.00	07/06/2000 00:50	ndp
Motor Oil	ND	500	ug/L	1.00	07/06/2000 00:50	
Surrogate(s)						
o-Terphenyl	110.6	60-130	%	1.00	07/06/2000 00:50	

To: **SECOR-Oakland**
Attn.: Angus McGrath

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

TEPH w/ Silica Gel Clean-up

Sample ID:	**MW-5**	Lab Sample ID:	**2000-06-0590-004**
Project:	014.07701 Former Penske Trucking	Received:	06/29/2000 18:43
		Extracted:	07/05/2000 12:25
Sampled:	06/28/2000 14:30	QC-Batch:	2000/07/05-04.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	110	50	ug/L	1.00	07/06/2000 01:29	ndp
Motor Oil	ND	500	ug/L	1.00	07/06/2000 01:29	
Surrogate(s)						
o-Terphenyl	89.5	60-130	%	1.00	07/06/2000 01:29	

To: **SECOR-Oakland**
Attn.: Angus McGrath

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

TEPH w/ Silica Gel Clean-up

Sample ID:	**MW-7**	Lab Sample ID:	**2000-06-0590-005**
Project:	014.07701 Former Penske Trucking	Received:	06/29/2000 18:43
		Extracted:	07/05/2000 12:25
Sampled:	06/28/2000 15:40	QC-Batch:	2000/07/05-04.10
Matrix:	Water		

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	2900000	20000	ug/L	400.00	07/07/2000 12:52	
Motor Oil	ND	200000	ug/L	400.00	07/07/2000 12:52	
Surrogate(s)						
o-Terphenyl	ND	60-130	ug/L	400.00	07/07/2000 12:52	

To: **SECOR-Oakland**
Attn.: Angus McGrath

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

TEPH w/ Silica Gel Clean-up

Sample ID:	**MW-8**	Lab Sample ID:	**2000-06-0590-006**
Project:	014.07701 Former Penske Trucking	Received:	06/29/2000 18:43
		Extracted:	07/05/2000 12:25
Sampled:	06/28/2000 14:45	QC-Batch:	2000/07/05-04.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	300	50	ug/L	1.00	07/06/2000 02:08	ndp
Motor Oil	ND	500	ug/L	1.00	07/06/2000 02:08	
Surrogate(s)						
o-Terphenyl	102.6	60-130	%	1.00	07/06/2000 02:08	

To: **SECOR-Oakland**
Attn.: Angus McGrath

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

TEPH w/ Silica Gel Clean-up

Sample ID:	**OW-1**	Lab Sample ID:	**2000-06-0590-007**
Project:	014.07701 Former Penske Trucking	Received:	06/29/2000 18:43
		Extracted:	07/05/2000 12:25
Sampled:	06/29/2000 10:45	QC-Batch:	2000/07/05-04.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1300	50	ug/L	1.00	07/06/2000 02:47	ndp
Motor Oil	ND	500	ug/L	1.00	07/06/2000 02:47	
Surrogate(s)						
o-Terphenyl	92.0	60-130	%	1.00	07/06/2000 02:47	

To: **SECOR-Oakland**
Attn.: Angus McGrath

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

TEPH w/ Silica Gel Clean-up

Sample ID:	**OW-2**	Lab Sample ID:	**2000-06-0590-008**
Project:	014.07701 Former Penske Trucking	Received:	06/29/2000 18:43
		Extracted:	07/05/2000 12:25
Sampled:	06/29/2000 11:30	QC-Batch:	2000/07/05-04.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	850	50	ug/L	1.00	07/06/2000 03:26	ndp
Motor Oil	ND	500	ug/L	1.00	07/06/2000 03:26	
Surrogate(s)						
o-Terphenyl	115.6	60-130	%	1.00	07/06/2000 03:26	

To: **SECOR-Oakland** Test Method: 8015m
Attn.: Angus McGrath Prep Method: 3510/8015M

Batch QC Report
TEPH w/ Silica Gel Clean-up

Method Blank **Water** **QC Batch # 2000/07/05-04.10**

MB: 2000/07/05-04.10-001 Date Extracted: 07/05/2000 12:25

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	07/05/2000 18:18	
Motor Oil	ND	500	ug/L	07/05/2000 18:18	
Surrogate(s)					
o-Terphenyl	101.0	60-130	%	07/05/2000 18:18	

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015m

Prep Method: 3510/8015M

Batch QC Report

TEPH w/ Silica Gel Clean-up

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/07/05-04.10**

LCS: 2000/07/05-04.10-002 Extracted: 07/05/2000 12:25 Analyzed 07/05/2000 18:58

LCSD: 2000/07/05-04.10-003 Extracted: 07/05/2000 12:25 Analyzed 07/05/2000 19:36

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	1060	994	1250	1250	84.8	79.5	6.5	60-130	25		
Surrogate(s)											
o-Terphenyl	24.8	23.4	20.0	20.0	124.0	117.0		60-130			

To: **SECOR-Oakland**
Attn:Angus McGrath

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

Legend & Notes

TEPH w/ Silica Gel Clean-up

Analysis Flags

o

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

sdo

Surrogate(s) diluted out

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # L182-17 **Date:** 7/06/00

Chromalab
1220 Quarry Lane
Pleasanton CA 94566-4756

Project: 2000-06-0590

PO#

Date Rec'd: 6/30/00
Date Started: 6/30/00
Date Completed: 7/05/00

Date Sampled: 6/29/00
Time: 10:45AM
Sampler:

Sample ID	Lab ID	RL	Method	Analyte	Results	Units
OW-1	L36008	1.0	353.3	Nitrate (NO3)	4	mg/L
		1.0	375.4	Sulfate	5	mg/L
OW-2	L36009	1.0	353.3	Nitrate (NO3)	3	mg/L
		1.0	375.4	Sulfate	7	mg/L

Ramiro Salgado
Chemist

Certification # 1157

Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report# L182-17

QC REPORT

Chromalab
1220 Quarry Lane
Pleasanton CA 94566-4756

Dates Analyzed 6/30/00-7/5/00

Analyte	Batch #	Method	% Recovery	Duplicate %	RPD	Blank
Nitrate (NO3)	I05524	353.3	94.0	94.0	0.0	ND
Sulfate	I05525	375.4	96.0	96.0	0.0	ND

Ramiro Salgado
Chemist

Certification # 1157

Donna Keller
Laboratory Director

Chain of Custody 2000-06-0590-1

L182-17

Date Shipped: 06/30/2000

From:

ChromaLab, Inc. (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4756

Project Manager: Afsaneh Salimpour
Phone: (925) 484-1919 Ext: 107
Fax: (925) 484-1096
Email: asalimpour@chromalab.com

To:

GeoAnalytical Labs
1405 Kansas Avenue
Modesto, CA 95351

Phone: (209) 572-0900
Fax: (209) 572-0916
Contact: Ramiro Salgado
Phone: (209) 572-0900

CL Submission #: **2000-06-0590**
CL PO #:

Project #: 014.07701
Project Name: Former Penske Trucking

Client Sample ID	CL#	Sampled	Matrix	
Analysis			Method	Due
OW-1 (2)	007	06/29/2000 10:45	Water	
Subcontract - Nitrate	L36008		300/352.1	**07/07/2000 17:00**
Subcontract - Sulfate			300/375.4	**07/07/2000 17:00**
OW-2 (2)	008	06/29/2000 11:30	Water	
Subcontract - Nitrate	L36009		300/352.1	**07/07/2000 17:00**
Subcontract - Sulfate			300/375.4	**07/07/2000 17:00**

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Chris Rowley		
Signature Time	Signature Time	Signature Time
C Rowley 06/30/00		
Printed Name Date	Printed Name Date	Printed Name Date
CL		
Company	Company	Company
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
R Acevedo 1410		
Signature Time	Signature Time	Signature Time
R Acevedo 6-30-00		
Printed Name Date	Printed Name Date	Printed Name Date
GEO		
Company	Company	Company

53093

2000-06-0590 Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: 005 Oakland
Address: 360 22nd St Suite 600
Oakland CA 94612

☐ Additional documents are attached, and are a part of this Record.

Job Name: Former Perske Trucking
Location: 725 Julie Ann Way
Oakland

Project # 014.07701 Task # 002
Project Manager Angus McGrath
Laboratory Chromalab
Turnaround Time Standard

Sampler's Name
Sampler's Signature

Analysis Request

Sample ID	Date	Time	Matrix	HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020 +MTBE	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TEPH with Silica clean up	TCLP Metals	Nitrate	Sulfate	Comments/ Instructions	Number of Containers
MW-1	6/28	14:55	Aq		X										X					4
MW-2	6/28	14:15			X										X					4
MW-4	6/28	16'40			X										X					4
MW-5	6/28	14:30			X										X					4
MW-7	6/28	15:40			X										X					4
MW-8	6/28	14:45			X										X					4
OW-1	6/29	10:45			X										X		X	X		6
OW-2	6/29	11:30			X										X		X	X		6
															/					

Special Instructions/Comments:

3.7°C

Relinquished by:
Sign Dylan Cardiff
Print Dylan Cardiff
Company Secor
Time 13:15 Date 6/29

Relinquished by:
Sign
Print
Company
Time 1843 Date 6/29/00

Received by:
Sign
Print
Company
Time 1720 Date 6/29/00

Received by:
Sign Denise Harrington
Print D. Harrington
Company Chromalab
Time 1843 Date 6/29/00

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd. in good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone:

SECOR CUSTREC Rev. 1/95

Date: 6/29/00 Page 1 of 1