SECOR
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APR 2 7 2001

FENTON'S REAGENT TREATMENT REPORT
PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way
Oakland, California

April 23, 2001

554

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1 INTRODUCTION

This report describes the tasks and results for the chemical oxidation treatment of groundwater. A chemical oxidation treatment called Fenton's reagent (hydrogen peroxide, sulfuric acid, and ferrous iron) was injected into groundwater and saturated zones soils for the treatment of residual petroleum hydrocarbons. Fenton's reagent is a strong oxidant that has been used extensively for ex-situ and in-situ groundwater treatment. Fenton's reagent was principally used to degrade total petroleum hydrocarbons in the diesel range (TPH_d) in water bearing zone soils and groundwater in and around monitoring wells MW-1 and MW-7 at the at the former Penske Truck Leasing Facility (the Site), 725 Julie Ann Way, Oakland, California. The location of the Site is shown in Figure 1. Figure 2 contains a site plan for the Site showing the layout of the facility, well locations, and the former tank location.

2 SITE HISTORY

In October 1989, one 10,000-gallon unleaded gasoline underground storage tank (UST), one 10,000-gallon diesel UST, and one 550-gallon waste oil UST were removed from the subject site. Following collection of confirmation soil samples, two excavations were conducted to remove residual hydrocarbons residing in subsurface soils.

Following excavation activities and under the direction of the Alameda County Health Care Services Agency (ACHCSA), the former UST excavation was backfilled with clean pea gravel and capped with asphalt.

Soil samples collected from the former UST cavity detected concentrations of total petroleum hydrocarbons (TPH) as gasoline (TPH_g) ranging from 22.4 milligrams per kilogram (mg/kg) to 2,100 mg/kg. Concentrations of TPH as diesel (TPH_d) ranged from 840 mg/kg to 13,000 mg/kg. Oil and grease were detected in two of the samples collected from the gasoline and diesel UST excavations at concentrations of 54 mg/kg and 35 mg/kg.

During September 1990, six soil borings were advanced in and around the former UST excavations to investigate the extent of impacted soil and groundwater. Three groundwater monitoring wells were installed (MW-1 through MW-3), in the vicinity of the former USTs (Figure 2). TPH_g was detected in soil samples collected from two of the six borings and all of the groundwater monitoring wells at concentrations ranging from 1 to 820 mg/kg at depths ranging from 5 to 20 feet below ground surface (bgs). TPH_d was detected in all of the soil borings and wells at concentrations ranging from 32 to 980 mg/kg at depths ranging from 5 to 20 feet bgs. Benzene was also detected in all of the soil borings and wells at concentrations ranging from 0.01 to 3.2 mg/kg. TPH_g was detected in monitoring well MW-1 at a maximum concentration of 170 micrograms per liter (µg/l). Groundwater samples collected from monitoring wells MW-2 and MW-3 were below the laboratories minimum detection limit for TPH_g. TPH_d in groundwater samples collected from all three of the newly installed monitoring wells was detected at concentrations ranging from 80 to 2,900 µg/l. Benzene was detected in all of the groundwater samples collected at concentrations ranging from 0.4 to 20 µg/l.

In February 1993 two additional groundwater monitoring wells were installed to better define the extent of groundwater impact. Monitoring well MW-4 and MW-5 were subsequently installed. The locations of these monitoring wells are depicted on Figure 2. TPH_g was detected in soil samples collected from monitoring well MW-4 only at concentrations ranging from 6 to 400 mg/kg at depths ranging from 5 to 15 feet bgs. TPH_d was detected within soil samples collected from both monitoring wells MW-4 and MW-5 at concentrations ranging from 21 to 4,100 mg/kg at depths between 5 and 15 feet bgs.

A third site assessment was conducted in July 1994. The objective of this site assessment was to further define the extent of soil and groundwater both down gradient (to the west) and cross gradient (to the north and southwest) of the former USTs. Four additional soil borings were drilled, three of which were converted to groundwater monitoring wells MW-6, MW-7 and MW-8. TPH_g was detected in soil samples collected borings MW-6, MW-7, MW-8 and BH-4 at

concentrations ranging from 1 mg/kg (boring MW-8 at 15.5 feet bgs) to 31 mg/kg (boring MW-7 at 15 feet bgs). TPH_d was detected in soil samples collected from boring MW-7, MW-8 and BH-4 at concentrations ranging from 41 mg/kg (boring MW-8 at 10.5 feet bgs) to 5,500 mg/kg (boring MW-7 at 15 feet bgs). Benzene was detected in soil samples collected from borings MW-7, MW-8 and BH-4 with a maximum concentration as high as 0.039 mg/kg (boring MW-8 at 5.5 feet bgs).

Based on the results of the third site assessment, a non-attainment-type zone was established with the concurrence of the ACHCSA. Concentrations of benzene reported in monitoring wells MW-7 and MW-8 (2.7 µg/l) were much lower than the 21µg/l limit established by the Regional Water Quality Control Board (RWQCB) to protect nearby estuary waters. The ACHCSA was also in concurrence with this limit. Since the concentrations of benzene within groundwater samples collected from monitoring wells MW-3, MW-6, MW-7 and MW-8 located to the northwest and west of the former USTs were lower than the limit established by the ACHCSA and the RWQCB to protect possible down gradient receptors, the attainment zone was established.

Free product with a characteristic hydrocarbon composition of TPH_d has been observed in wells MW-1 and MW-7 historically and during the two years SECOR has worked on the Site. The main hindrance to closure of this Site, once the ACHCSA concurred with the non-attainment-type zone designation, was the presence of free product in these two monitoring wells. In an effort to eliminate the residual free product in these two wells, SECOR proposed injection of Fenton's reagent. This Report details the results of the treatment.

3 OBJECTIVES

The objective of the chemical oxidation treatment was to oxidize and remove free phase TPH_d in the vicinity of monitoring wells MW-1 and MW-7, where residual free phase hydrocarbons persist. BTEX and TPH_g in groundwater and aquifer sediments in the impacted zones of the Site were also targeted, but these compounds already fall below remedial requirements for closure of the Site. Treatment effectiveness was evaluated by collecting groundwater samples from monitoring wells located within the impacted zone. It is important to note that the Fenton's reagent treatment was injected through Geoprobe™ borings spaced around the areas of highest contamination.

4 PROCEDURES

The scope of the chemical oxidation treatment adhered to the tasks outlined in the approved Work Plan prepared by SECOR, dated May 21, 1999 (Work Plan), with only a few exceptions. Those exceptions included:

1. Approximately fifty injection points rather than 150;
2. Larger injection volume of acid and hydrogen peroxide (150 to 300 rather than 100); gallons?
3. Higher density of injection points in the vicinity of wells MW-1 and MW-7; and
4. A longer post-treatment monitoring period to assess rebound levels (2 quarters rather than 4 weeks).

4.1 TREATMENT TASKS

The treatment tasks remained the same and changes to the tasks are summarized below.

4.1.1 Task 1 – Baseline Evaluation of Geochemical Parameters

Baseline sampling of impacted wells was conducted on September 14, 2000 as outlined in the approved Work Plan. Pretest sampling was conducted using wells in the Fenton's reagent treatment area (see Figure 2). Geochemical parameters for monitoring Fenton's reagent effectiveness included oxidation-reduction potential (ORP), pH, specific conductivity, hydrogen peroxide, dissolved oxygen (DO), and ferrous iron concentrations. Samples for BTEX, TPH_g, and TPH_d were taken prior to treatment during the previous Quarterly monitoring event. The ACHCSA requested that metals and hexavalent chromium analysis be conducted to assess the potential for metal mobilization and chromium oxidation to hexavalent chromium. A detailed discussion of the sampling methods is included in the quarterly groundwater monitoring reports.

Laboratory analytical samples were submitted to Chromalab, Incorporated (Chromalab) of Pleasanton, California for analysis by United States Environmental Protection Agency (USEPA) methods 8015M and 8020 for hydrocarbons, USEPA method 7196 for hexavalent chromium and USEPA method 6010B for CAM 17 metals.

4.1.2 Task 2 – Fenton's Reagent Preparation and Injection

Fenton's reagent preparation and injection was conducted from September 19 through the 23, 2000 as outlined in the Work Plan. The area of treatment is shown on Figure 2. The list below summarizes some of the details that were changed during injection:

1. 8 % hydrogen peroxide was injected at the site instead of 5 to 8%;
2. Sulfuric acid addition was ceased for safety reasons after the second day of injection, because of excessive corroding of high pressure hose connectors;

3. Additional hydrogen peroxide was added to injection points around the two highly impacted wells (MW-1 and MW-7) because hydrogen peroxide solution breached the surface in some injection points limiting the amount of reagent that could be added to these points; and
4. Hydrogen peroxide injection around MW-7 and MW-1 indicated that high permeability channels exist in the subsurface, which channel flow towards the north in the case of MW-7, and south in the case of MW-1.

The highest density of injection points was concentrated around monitoring wells MW-1 and MW-7 where the bulk of the free product is still observed. A total of 25 55-gallon drums consisting of 50% hydrogen peroxide, were injected into the subsurface over a period of 5 days.

4.1.3 Task 3 – Post Treatment Monitoring

Groundwater wells were monitored in accordance to the approved Work Plan with the addition of the metals analysis requested by the RWQCB to assess the impact of treatment on the dissolution of metals and the oxidation of chromium to hexavalent chromium. As in the case for the baseline monitoring, samples for hydrocarbon anaylsis were submitted under USEPA method 8015M and 8020, under method USEPA method 7196 for hexavalent chromium, and USEPA method 6010B for Cam 17 metals to Chromalab under chain of custody for analysis on a standard turnaround basis.

5 RESULTS AND DATA EVALUATION

The monitoring results indicate that the treatment was successful at reducing TPH_d and BTEX at the Site in monitoring wells MW-1 and MW-7. Free product concentrations also decreased significantly in both wells, but were not completely eliminated by the treatment. Floating product on the surface of groundwater in monitoring wells MW-1 and MW-7 decreased from approximately ¼ of an inch to a small quantity of floating globules in the water column. The main objective of this treatment was to reduce BTEX, TPH_g, and TPH_d concentrations at the Site.

Table [illegible] contains the initial and post monitoring data for [illegible] waters. Field [illegible] sampled in Appendix [illegible].

Gr[illegible] m[illegible] MW, which are [illegible] in [illegible] TPH_d c[illegible]. The results were variable for OW-1 and MW-8. Concentrations increased in MW-8 during the December 11, 2000 sampling to 15,000 micrograms per liter (µg/L). Although the reported concentration is higher than the background concentration recorded for the test (310 µg/L), the elevated concentration was only twice the historical high concentration, which was 7,000 µg/L recorded in September of 1997. The groundwater sample collected during the First Quarter 2001 monitoring event, exhibited a decreased concentration. The level of contamination reported within the groundwater sample collected during the First Quarter 2001 monitoring episode reported the lowest concentration observed in that well since December of 2000 (130 µg/L). Figure 3 contains a plot, which summarizes the reduction in TPH_d concentrations for each of the wells.

Residual free product in MW-7, prior to treatment, consisted of 1 to 2 inches of brown to black oily globules of product that coated the sample bailer entirely and formed a free phase surface on the water. Monitoring well MW-1 exhibited a slightly lower volume of free product, and slightly lower overall concentration following treatment. After treatment of the groundwater, residual hydrocarbons observed within well MW-7 consisted of globules that did not adhere to the bailer or coalesce to form a free phase surface. The amount of free product left is significantly lower than what was initially observed.

TPH_g concentrations were variable for the monitoring wells, which contained TPH_g, but the concentrations observed were not above regulatory limits set for other sites closed in the area. BTEX concentrations remain low across the Site. The TPH_g chromatograms were not representative of TPH_g indicating that the TPH observed was most likely from low range TPH_d. Groundwater analytical results are presented in Table 1.

Sulfate concentrations increased in OW-1 and OW-2 as a result of sulfuric acid injections with the treatment, but remain below levels observed in other unimpacted freshwater regions of the Bay. It is anticipated that the local high in sulfate will decrease over time.

Nitrate levels increased in OW-2 immediately after the injection, which was most likely a result of reduced nitrogen within the former UST excavation that was oxidized by the hydrogen peroxide. Microbes most likely reduced the nitrate while degrading the residual hydrocarbon.

[redacted]

This is not the way to estimate mass loss by unit of H_2O_2 added.

Assuming 150 parts of hydrogen peroxide is required to degrade one part TPH, the amount of TPH degraded was approximately 83 pounds. It is difficult to predict the mass loss based on the changes in concentration because much of the mass loss was free product, which is not easily measured. Therefore, SECOR has used the reductions in dissolved concentrations to predict the overall loss, which is a conservative estimate of mass loss. [redacted] is [redacted]s. This is a greater efficiency than what was predicted assuming a 150 to 1 efficiency on a mass to mass basis.

[redacted] treatment in wells MW-1 and MW-7 will be required to [redacted] wells. It is anticipated that the treatments will radically reduce TPH concentrations and gradually eliminate the presence of free product. Approximately four additional treatments may be required using direct injection into the contaminated wells.

6 CONCLUSIONS

The treatment significantly decreased the concentrations of TPH_d across the Site. The greatest decreases were observed in monitoring wells MW-1, MW-4, MW-7, and OW-2. Free product mass loss as documented by the field data sheets is close to achieving the remedial goal of eliminating free product at the Site, but additional treatment directly within wells MW-1 and MW-7 appears to be warranted. SECOR estimates that approximately four additional treatments may be required using direct injection into the contaminated wells.

Based on the success of the treatment, SECOR has concluded that additional treatment would be effective at further reducing the free product mass that remains. The method of application should be altered to increase the ease of application and concentrate treatment in the areas where contamination is observed.

The results also indicate that contaminants were not mobilized by the treatment, and if some mobilization was observed, the results of the movement were short lived. Monitoring well MW-8 remains relatively unimpacted, with only dissolved phase TPH_d present in groundwater at that location. Dissolution and mobilization of CAM17 metals and hexavalent chromium did not occur as a result of treatment.

TABLE 1
PEROXODE TREATMENT
GROUNDWATER ANALYTICAL RESULTS
PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way
Oakland, California

WELL NO.	DATE	CONCENTRATIONS (µg/L)						CONCENTRATIONS (mg/L)		
		TPHd	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	NITRATE	SULFATE	Fe^{2+}
MW-1	09/14/00	770,000	1,100	34	ND	3.9	17	NA	NA	NA
	10/13/00	97,000	360	69	ND	1.3	2.8	NA	NA	NA
	12/11/00	28,000	2,000	10	ND	ND	9.3	NA	NA	NA
	03/14/01	8,400	350	12	ND	ND	ND	NA	NA	NA
MW-2	09/14/00	120	ND	ND	ND	ND	ND	NA	NA	NA
	10/13/00	88	ND	ND	ND	ND	ND	NA	NA	NA
	12/11/00	ND	ND	ND	ND	ND	ND	NA	NA	NA
	03/14/01	75	ND	ND	ND	ND	ND	NA	NA	NA
MW-3	09/14/00	NS	NS	NS	NS	NS	NS	NA	NA	NA
	10/13/00	NS	NS	NS	NS	NS	NS	NA	NA	NA
	12/11/00	NS	NS	NS	NS	NS	NS	NA	NA	NA
	03/14/01	NS	NS	NS	NS	NS	NS	NA	NA	NA
MW-4	09/14/00	19,000	130	ND	ND	ND	ND	NA	NA	NA
	10/13/00	4,800	51	ND	ND	ND	ND	NA	NA	NA
	12/11/00	730	120	ND	ND	ND	ND	NA	NA	NA
	03/14/01	580	ND	ND	ND	ND	ND	NA	NA	NA
MW-5	09/14/00	NS	NS	NS	NS	NS	NS	NA	NA	NA
	10/13/00	NS	NS	NS	NS	NS	NS	NA	NA	NA
	12/11/00	130	ND	ND	ND	ND	ND	NA	NA	NA
	03/14/01	NS	NS	NS	NS	NS	NS	NA	NA	NA
MW-6	06/14/00	NS	NS	NS	NS	NS	NS	NA	NA	NA
	10/13/00	NS	NS	NS	NS	NS	NS	NA	NA	NA
	12/11/00	NS	NS	NS	NS	NS	NS	NA	NA	NA
	03/14/01	NS	NS	NS	NS	NS	NS	NA	NA	NA
MW-7	09/14/00	15,000,000	1,900	11	ND	10	39	NA	NA	NA
	10/13/00	1,400,000	1,400	23	ND	6.8	11	NA	NA	NA
	12/12/00	340,000	4,500	ND	ND	ND	17	NA	NA	NA
	03/14/01	170,000	8,000	ND	ND	ND	ND	NA	NA	NA
MW-8	09/14/00	310	ND	ND	ND	ND	ND	NA	NA	NA
	10/13/00	990	ND	ND	ND	ND	ND	NA	NA	NA
	12/11/00	15,000	ND	ND	ND	ND	ND	NA	NA	NA
	03/14/01	130	ND	ND	ND	ND	ND	NA	NA	NA
OW-1	09/14/00	5,800	180	ND	ND	ND	ND	5.1	1.6	4.4
	10/13/00	21,000	150	1.0	ND	ND	ND			
	12/12/00	230	110	3.4	ND	ND	ND	2.9	155	3.4
	03/14/01	2,200	110	4.0	ND	ND	0.5	1.9	140	NA
OW-2	09/14/00	6,300	590	26	0.79	ND	1.7	4.6	ND	3.0
	10/13/00	3,100	390	2.5	ND	ND	ND			
	12/12/00	320	210	6.6	ND	ND	ND	76	123	4.6
	03/14/01	960	320	5.6	ND	ND	ND	ND	33	NA

Notes:

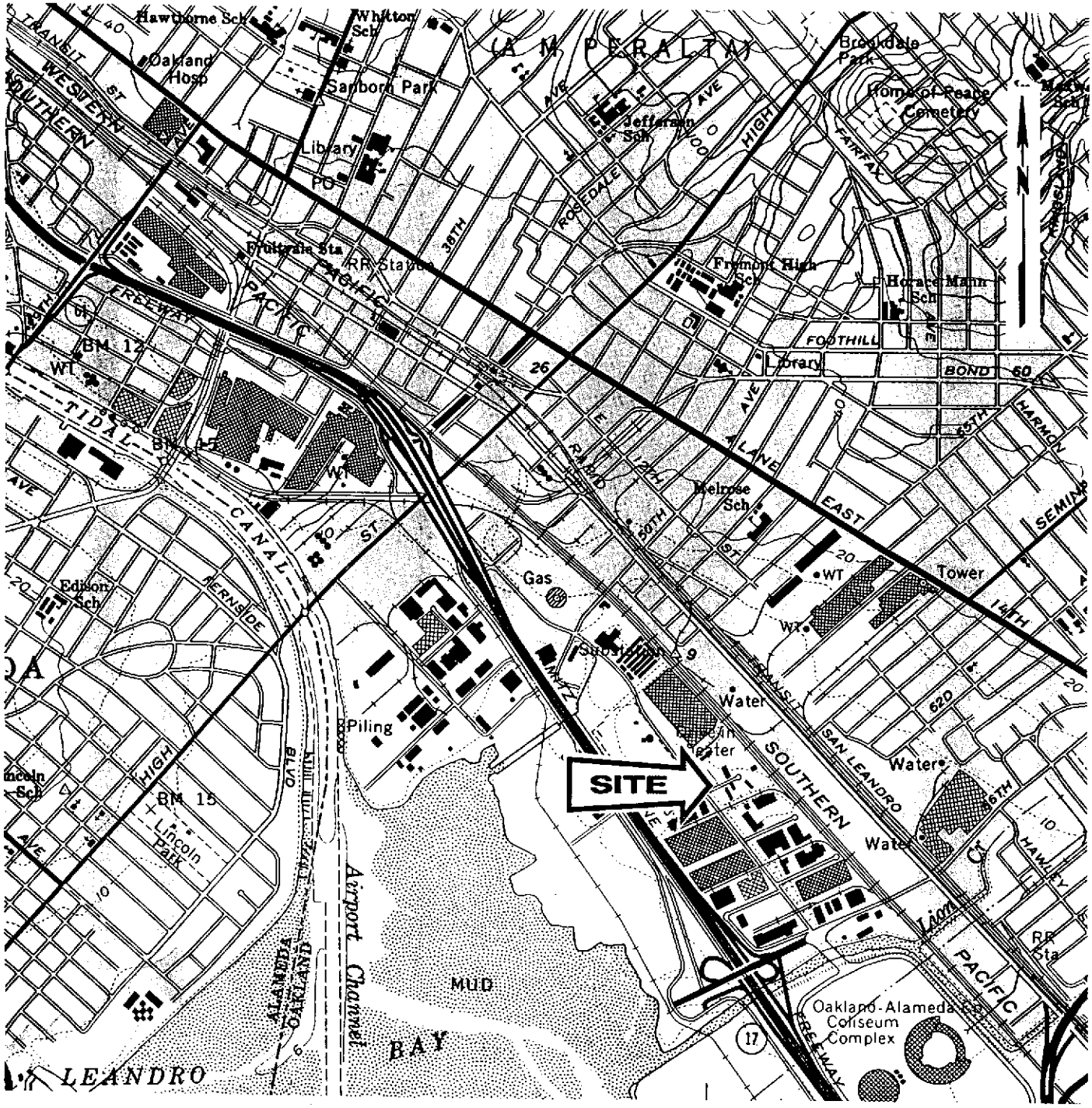
µg/L - micrograms per liter
mg/L - micrograms per liter
TPHd - Total Petroleum Hydrocarbons as diesel
TPHg - Total Petroleum Hydrocarbons as gasoline
Fe^{2+} - Ferrous Iron
NS - Well not sampled
ND - Not detected at or above the laboratory detection limit
NA - Not analyzed

TABLE 2
METALS CONCENTRATIONS IN WELL MW-8
PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way
Oakland, California

POST H_2O_2 ADDN. IN DOWNGRADIENT WELL

	SAMPLE DATE	CONCENTRATIONS (mg/L)
CAM 17 Metals		
Antimony	12/12/00	<0.005
Arsenic	12/12/00	0.0095
Barium	12/12/00	0.16
Beryllium	12/12/00	<0.005
Cadmium	12/12/00	<0.002
Chromium	12/12/00	<0.005
Cobalt	12/12/00	<0.005
Copper	12/12/00	0.015
Lead	12/12/00	<0.005
Molybdenum	12/12/00	0.015
Nickel	12/12/00	0.01
Selenium	12/12/00	<0.005
Silver	12/12/00	<0.005
Thallium	12/12/00	<0.005
Vanadium	12/12/00	0.0055
Zinc	12/12/00	<0.01
Mercury	12/12/00	<0.0002
Hexavalent Chromium	12/12/00	<0.01

Notes:
mg/L - micrograms per liter



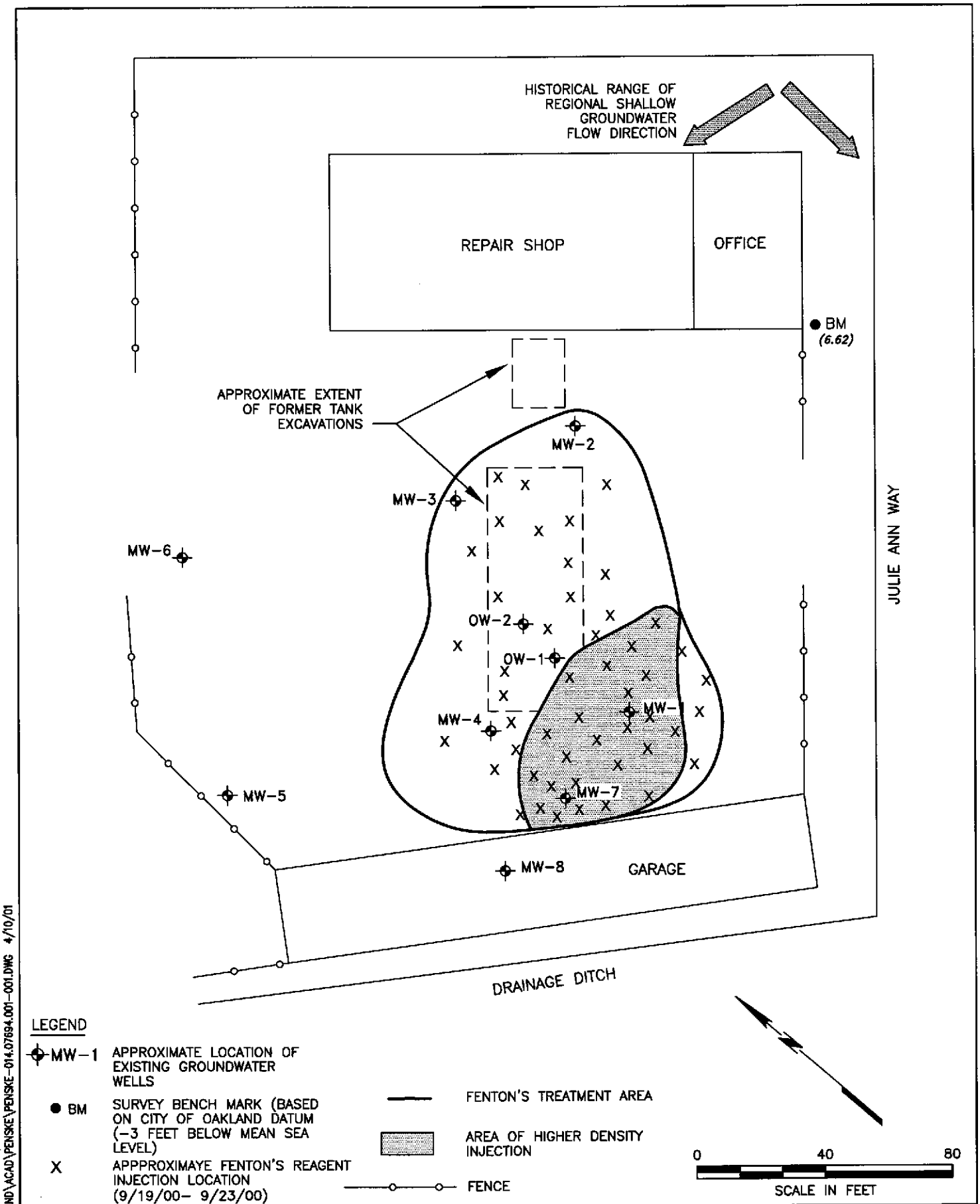
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
OAKLAND EAST, CALIFORNIA
(PHOTOREVISED 1980)

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



SECOR
International Incorporated

DRAWN	GEL
APPR	AEM
DATE	10 APRIL 01
JOB NO.	014.07694.005

FIGURE 2
FORMER PENSKE TRUCKING LEASING FACILITY
725 JULIE ANN WAY
OAKLAND, CALIFORNIA
SITE PLAN AND FENTON'S REAGENT TREATMENT AREA

199812.271039 X:\OAKLAND\ACAD\PENSKE\PENSKE-014.07694.001-001.DWG 4/10/01

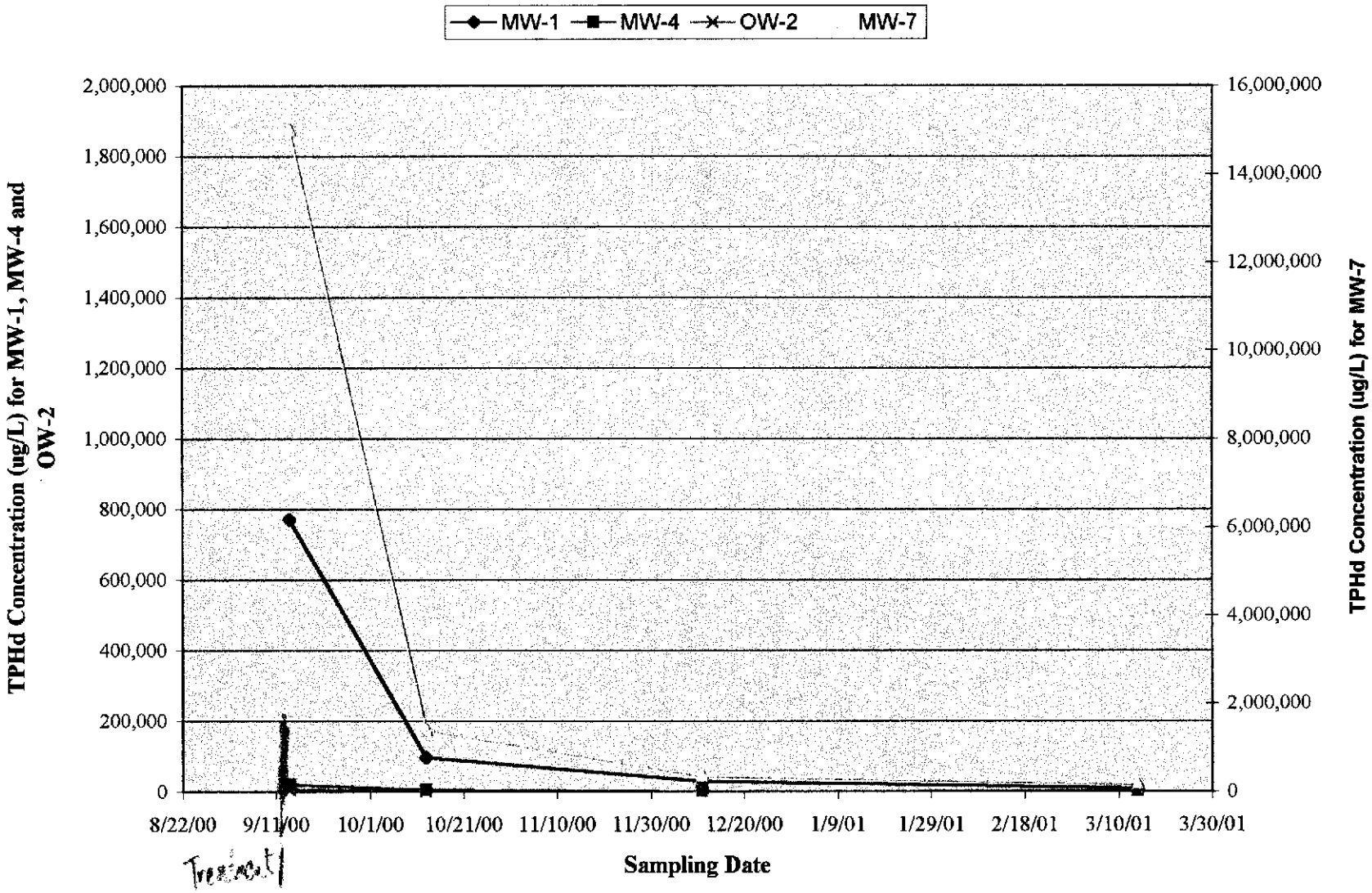


Figure 3: TPHd concentration trends pre- and post-treatment in monitoring wells that exhibited decreasing trends.

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HYDROLOGIC DATA SHEET

Date: 9/14/00 **Project:** Penske **Project #:** 014.07701.002

Sampler: D. Cardiff **Page** 1 **of** 1

WELL or LOCATION	TIME	MEASUREMENT					COMMENTS
		TOC	DTW	DTB	DIA	ELEV	
MW-1		5.43	6.41	34.00	4	-0.98	
MW-2		6.20	6.86	29.00	4	-0.66	
MW-3		6.10	7.06	—	4	-0.96	
MW-4		5.18	6.05	33.5	4	-0.87	
MW-5		4.71	—	31.20	4	—	Could not find due to debris
MW-6		5.37	6.17	—	4	-0.8	
MW-7		5.38	5.93	28.5	4	-0.55	
MW-8		5.44	5.99	25.5	4	-0.55	
OW-1		—	5.31	14.4	4	—	
OW-2		—	5.60	14.10	4	—	

TOC = Top of Well Casing Elevation
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC
DIA = Well Casing Diameter
ELEV = Groundwater Elevation

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WATER SAMPLE FIELD DATA SHEET

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

CLIENT NAME: Penske SAMPLED BY: D. Cardiff SAMPLE I.D.: _____

LOCATION: 725 Julie Ann Way Oakland WHAT QA SAMPLES?: _____

DATE PURGED 9/14/00 START (2400hr) 1320

DATE SAMPLED 9/14/00 SAMPLE TIME (2400hr) 1415

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) = 34.00 CASING VOLUME (gal) = 18.5

DEPTH TO WATER (feet) = 6.41 CALCULATED PURGE (gal) = 55.50

WATER COLUMN HEIGHT (feet) = 27.59 ACTUAL PURGE (gal) = _____

FIELD MEASUREMENTS

No big pH change

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	ORP	DO
9/14/00	1340	20	23.2	0.401	6.91	low	-311	5.4/0.46
9/14/00	1350	40	23.0	0.413	6.95	low	-300	0.7/0.06
9/14/00	1410	55	23.3	0.419	6.92	low	-316	4.1/0.36

80% RECHARGE: ___YES ___NO ANALYSES: See COC

ODOR: Gas SAMPLE VESSEL / PRESERVATIVE: _____

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: _____

COMMENTS:

Product

SIGNATURE: _____

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

CLIENT NAME: Penske SAMPLED BY: D.Cardiff SAMPLE I.D.: MW-2

LOCATION: 725 Julie Ann Way Oakland WHAT QA SAMPLES?: _____

DATE PURGED 9/14/00 START (2400hr) 905

DATE SAMPLED 9/14/00 SAMPLE TIME (2400hr) 925

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) = 29.00 CASING VOLUME (gal) = 15

DEPTH TO WATER (feet) = 6.86 CALCULATED PURGE (gal) = 45

WATER COLUMN HEIGHT (feet) = 22.14 ACTUAL PURGE (gal) = 45

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	ORP	DO
9/14/00	910	15	23.2	163.3	7.75	moderate	-305	13.3
9/14/00	915	30	22.5	59.2	7.12	mod → low	-303	8.3/0.71
9/14/00	920	45	22.2	59.6	7.14	mod → low	-310	7.2/0.61

ORP: ____ DO: ____ %/mg/L

80% RECHARGE: ___YES ___NO ANALYSES: see COC

ODOR: Sulfur SAMPLE VESSEL / PRESERVATIVE: _____

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
X Bailer (Teflon)
X Bailer (___PVC or X disposable)
____ Bailer (Stainless Steel)
____ Dedicated _____
Other: _____

WELL INTEGRITY: _____

COMMENTS:

SIGNATURE: _____

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

CLIENT NAME: Penske SAMPLED BY: D.Cardiff SAMPLE I.D.: MW-4

LOCATION: 725 Julie Ann Way Oakland WHAT QA SAMPLES?: _____

DATE PURGED 9/14/00 START (2400hr) 1030

DATE SAMPLED 9/14/00 SAMPLE TIME (2400hr) 1250

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) = 33.5 CASING VOLUME (gal) = 18.5

DEPTH TO WATER (feet) = 6.05 CALCULATED PURGE (gal) = 55.5

WATER COLUMN HEIGHT (feet) = 27.45 ACTUAL PURGE (gal) = 60

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. C (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	ORP	DO
9/14/00	1035	20	21.5	0.545	6.86	Mod-low	-159	9/0.78
9/14/00	1120	40	19.9	0.994	7.13	low	-36	8.4/0.77
9/14/00	1245	60	20.7	1.523	7.23	low	16	11.9/1.06

%/mg/L

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

ODOR: _____ SAMPLE VESSEL / PRESERVATIVE: _____

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: _____

COMMENTS:

Sheen

SIGNATURE: _____

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

CLIENT NAME: Penske SAMPLED BY: D Cardiff SAMPLE I.D.: MW-7

LOCATION: 725 Julie Ann Way Oakland WHAT QA SAMPLES?: _____

DATE PURGED 9/14/00 START (2400hr) 1300

DATE SAMPLED 9/14/00 SAMPLE TIME (2400hr) 1320

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

CASING DIAMETER:	2"	3"	4"	5"	6"	8"	Other
Casing Volume: (gallons per foot)	(0.17)	(0.38)	X (0.67)	(1.02)	(1.50)	(2.60)	( )

DEPTH TO BOTTOM (feet) = 28.5 CASING VOLUME (gal) = 15.5

DEPTH TO WATER (feet) = 5.93 CALCULATED PURGE (gal) = 45.5

WATER COLUMN HEIGHT (feet) = 22.57 ACTUAL PURGE (gal) = _____

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	ORP	DO
9/14/00	1305	15	20.5	0.495	7.17	low	-294	7.9/0.7
9/14/00	1310	30	20.8	0.460	7.12	low	-307	5.1/0.44
9/14/00	1315	45	21.2	0.457	7.06	low	-306	7.4/0.65

80% RECHARGE: ___YES ___NO ANALYSES: see COC

ODOR: Gas SAMPLE VESSEL / PRESERVATIVE: _____

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: _____

COMMENTS:

Product

SIGNATURE: _____

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

CLIENT NAME: Penske SAMPLED BY: _____ SAMPLE I.D.: MW-8

LOCATION: 725 Julie Ann Way Oakland WHAT QA SAMPLES?: _____

DATE PURGED 9/14/00 START (2400hr) 9:35

DATE SAMPLED 9/14/00 SAMPLE TIME (2400hr) 1000

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) = 25.5 CASING VOLUME (gal) = 13

DEPTH TO WATER (feet) = 5.99 CALCULATED PURGE (gal) = 39.5

WATER COLUMN HEIGHT (feet) = 19.51 ACTUAL PURGE (gal) = 45

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	ORP	DO
9/14/00	940	15	19.5	0.658	7.31	low	-192	20.5/1.86
9/14/00	945	30	19	0.659	7.27	low	-207	10.6/0.97
9/14/00	950	45	19.1	0.660	7.32	low	-166	11.7/1.07

% / mg/L

80% RECHARGE: ___YES ___NO ANALYSES: see COC

ODOR: None SAMPLE VESSEL / PRESERVATIVE: _____

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
X Bailer (Teflon)
X Bailer (___PVC or X disposable)
____ Bailer (Stainless Steel)
____ Dedicated _____
Other: _____

WELL INTEGRITY: _____

COMMENTS:

Slight Sheen

SIGNATURE: _____

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

CLIENT NAME: Penske SAMPLED BY: D. Cardiff SAMPLE I.D.: OW-1

LOCATION: 725 Julie Ann Way Oakland WHAT QA SAMPLES?: _____

DATE PURGED 9/14/00 START (2400hr) 1035

DATE SAMPLED 9/14/00 SAMPLE TIME (2400hr) 1105

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) = 14.4 CASING VOLUME (gal) = 6

DEPTH TO WATER (feet) = 5.31 CALCULATED PURGE (gal) = 18.5

WATER COLUMN HEIGHT (feet) = 9.09 ACTUAL PURGE (gal) = 18

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	ORP	DO
9/14/00	1038	6	22.3	0.276	7.07	mod	-142	13.5/1.18
9/14/00	1050	12	22.3	0.277	6.97	mod	-144	10.2/0.88
9/14/00	1100	18	22.2	0.274	7.02	mod	-115	11.3/0.98

ORP: %/mg/L

80% RECHARGE: ___YES ___NO ANALYSES: see COC

ODOR: Gas SAMPLE VESSEL / PRESERVATIVE: _____

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: _____

COMMENTS:

sheen

4.2, 4.4, 4.0

SIGNATURE: _____

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

CLIENT NAME: Penske SAMPLED BY: D. Cardiff SAMPLE I.D.: OW-2

LOCATION: 725 Julie Ann Way Oakland WHAT QA SAMPLES?: _____

DATE PURGED 9/14/00 START (2400hr) 1140

DATE SAMPLED 9/14/00 SAMPLE TIME (2400hr) 1200

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

CASING DIAMETER:	2"	3"	4"	5"	6"	8"	Other
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )
			X				

DEPTH TO BOTTOM (feet) = 14.10 CASING VOLUME (gal) = 6

DEPTH TO WATER (feet) = 5.60 CALCULATED PURGE (gal) = 18

WATER COLUMN HEIGHT (feet) = 8.5 ACTUAL PURGE (gal) = 18

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	ORP	DO
9/14/00	1145	6	23.3	0.269	7.14	mod	-121	14.8/1.25
9/14/00	1150	12	23.3	0.277	7.11	mod	-100	17.5/1.48
9/14/00	1155	18	23.4	0.275	7.21	mod	-89	15.6/1.33

80% RECHARGE: ___YES ___NO ANALYSES: See COC

ODOR: mild Gas SAMPLE VESSEL / PRESERVATIVE: _____

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: _____

COMMENTS:

Sheen

3.2, 3.2, 3.0

SIGNATURE: _____

HYDROLOGIC DATA SHEET

DATE: 10/13 PROJECT: Penske Peroxide PROJECT # 014.07694.005

EVENT: Post Peroxide Injection Sampling SAMPLER: Dylan / Stu

WELL OR LOCATION	TIME	MEASUREMENT					COMMENTS
		TOC	DTW	DTP	PT	ELEV	
MW-1			7.42	7.40	.02		
MW-2			7.12	—	—		
MW-4			6.26	—	—		
MW-5			5.71	—	—		
MW-6			6.44	—	—		
MW-7			6.96	6.88	.08		
MW-8			6.23	—	—		
OW-1			4.84	—	—		
OW-2			5.14	—	—		
MW-3			7.11	—	—		

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 | PURGED BY: DC/Stu | WELL I.D.: MW-1

CLIENT NAME: Penske | SAMPLED BY: DC/Stu | SAMPLE I.D.: MW-1

LOCATION: 725 Julie Ann Way | WHAT QA SAMPLES?: none

DATE PURGED 10/13 | START (2400hr) 13:15

DATE SAMPLED 10/13 | SAMPLE TIME (2400hr) 14:30

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

CASING DIAMETER:	2"	3"	4"	5"	6"	8"	Other
Casing Volume: (gallons per foot)	(0.17)	(0.38)	X (0.67)	(1.02)	(1.50)	(2.60)	( )

DEPTH TO BOTTOM (feet) = 34.00 | CASING VOLUME (gal) = 17.80

DEPTH TO WATER (feet) = 7.42 | CALCULATED PURGE (gal) = 53.43

WATER COLUMN HEIGHT (feet) = 26.58 | ACTUAL PURGE (gal) = 55

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	DO	ORP
10/13		20	20.7	.534 S/m	7.15	clear/low	7.1/0.63	-41
		40	22.0	.532	7.04	↓	8.0/0.70	-11
		55	22.2	.531	7.15	↓	9.5/0.82	-4

80% RECHARGE: X YES __NO | ANALYSES: ____

ODOR: strong | SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT

- ____ Well Wizard Bladder Pump
- ____ Active Extration Well Pump
- ____ Submersible Pump
- ____ Peristaltic Pump
- ____ Bailer (Teflon)
- ____ Bailer (PVC or ___disp)
- ____ Bailer (Stainless Steel)
- ____ Dedicated ____

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

COMMENTS: 2/10" of product measured — about 1/8" in bailer

SIGNATURE: ____

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701 | PURGED BY: Stu / DC | WELL I.D.: MW-2

CLIENT NAME: Penske | SAMPLED BY: Stu / DC | SAMPLE I.D.: MW-2

LOCATION: 725 Julie Ann Way | WHAT QA SAMPLES?: none

DATE PURGED 10/13 | START (2400hr) 9:50

DATE SAMPLED 10/13 | SAMPLE TIME (2400hr) 10:20

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) = 29.00 | CASING VOLUME (gal) = 14.66

DEPTH TO WATER (feet) = 7.12 | CALCULATED PURGE (gal) = 43.98

WATER COLUMN HEIGHT (feet) = 21.88 | ACTUAL PURGE (gal) = 45

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	DO	ORP
10/13		15	19.9	135.5 S/m	7.30	low/clear	7.4/0.67	-243
		30	21.2	106.8	7.24		5.4/0.48	-243
		45	21.6	95.4	7.21	↓	6.9/0.60	-254

80% RECHARGE: X YES ___ NO | ANALYSES: ___

ODOR: none | SAMPLE VESSEL / PRESERVATIVE: ___

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extration Well Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
___ Bailer (PVC or ___ disp)
___ Bailer (Stainless Steel)
___ Dedicated ___
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

COMMENTS: well box needs to be cleared of mud & debris again

SIGNATURE: ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701 | PURGED BY: Stu / DC | WELL I.D.: MW-4

CLIENT NAME: Penske | SAMPLED BY: Stu / DC | SAMPLE I.D.: MW-4

LOCATION: 725 Julie Ann Way | WHAT QA SAMPLES?: none

DATE PURGED 10/13 | START (2400hr) 10:25

DATE SAMPLED 10/13 | SAMPLE TIME (2400hr) 13:00

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) = 33.5 | CASING VOLUME (gal) = 18.25

DEPTH TO WATER (feet) = 6.26 | CALCULATED PURGE (gal) = 54.75

WATER COLUMN HEIGHT (feet) = 27.24 | ACTUAL PURGE (gal) = 55

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	DO	ORP
10/13		20	20.9	.697 ms/cm	6.67	low/gray	4.3/0.38	-205
		40	21.5	1.813	6.61	low/clear	10.8/0.98	Err 03
		55	20.2	1.711	6.82	low/clear	6.4/0.58	-20, Err 03

80% RECHARGE: X YES ___ NO | ANALYSES: ____

ODOR: yes | SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extration Well Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
___ Bailer (PVC or ___ disp)
___ Bailer (Stainless Steel)
___ Dedicated ____
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

COMMENTS:

lite sheen

SIGNATURE: ____

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701 | PURGED BY: DC/stu | WELL I.D.: MW-7

CLIENT NAME: Penske | SAMPLED BY: DC/stu | SAMPLE I.D.: MW-7

LOCATION: 725 Julie Ann Way | WHAT QA SAMPLES?: none

DATE PURGED 10/13 | START (2400hr) 12:35

DATE SAMPLED 10/13 | SAMPLE TIME (2400hr) 13:15

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) = 28.5 | CASING VOLUME (gal) = 14.43

DEPTH TO WATER (feet) = 6.96 | CALCULATED PURGE (gal) = 43.29

WATER COLUMN HEIGHT (feet) = 21.54 | ACTUAL PURGE (gal) = 45

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	DO	ORP
10/13		15	19.6	.648 s/m	7.22	clear/low	Gr 4/Gr 6	+125
		30	19.1	.495	7.43	↓	130/11.90	+131
		45	19.2	.582	7.19	↓	89.1/8.17	+147

80% RECHARGE: X YES ___ NO | ANALYSES: ____

ODOR: strong | SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT

____ Well Wizard Bladder Pump
____ Active Extration Well Pump
____ Submersible Pump
____ Peristaltic Pump
____ Bailer (Teflon)
____ Bailer (PVC or ___disp)
____ Bailer (Stainless Steel)
____ Dedicated ____

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

COMMENTS: 8/10" of product measured - about 1/4" in bailer

SIGNATURE: ____

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701 | PURGED BY: Stu / DC | WELL I.D.: MW-8

CLIENT NAME: Penske | SAMPLED BY: Stu / DC | SAMPLE I.D.: MW-8

LOCATION: 725 Julie Ann Way | WHAT QA SAMPLES?: none

DATE PURGED 10/13 | START (2400hr) 12:20

DATE SAMPLED 10/13 | SAMPLE TIME (2400hr) 12:50

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) = 25.5 | CASING VOLUME (gal) = 12.91

DEPTH TO WATER (feet) = 6.23 | CALCULATED PURGE (gal) = 38.73

WATER COLUMN HEIGHT (feet) = 19.27 | ACTUAL PURGE (gal) = 40

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	DO	ORP
10/13		15	20.0	1,721 s/m	6.85	low/clear	8.0/0.73	-12
		30	18.4	.759	7.22	low/clear	14.7/1.37	-38
		40	18.7	.773	7.17	med/clear	27.5/2.53	5

80% RECHARGE: X YES __ NO | ANALYSES: ____

ODOR: yes | SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT

____ Well Wizard Bladder Pump
____ Active Extration Well Pump
____ Submersible Pump
____ Peristaltic Pump
____ Bailer (Teflon)
____ Bailer (PVC or ___disp)
____ Bailer (Stainless Steel)
____ Dedicated ____

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

COMMENTS:

SIGNATURE: ____

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701 | PURGED BY: Stu / DC | WELL I.D.: OW-1

CLIENT NAME: Penske | SAMPLED BY: Stu / DC | SAMPLE I.D.: OW-1

LOCATION: 725 Julie Ann Way | WHAT QA SAMPLES?: none

DATE PURGED 10/13 | START (2400hr) 11:05

DATE SAMPLED 10/13 | SAMPLE TIME (2400hr) 11:30

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

CASING DIAMETER:	2"	3"	4"	5"	6"	8"	Other
Casing Volume: (gallons per foot)	(0.17)	(0.38)	X (0.67)	(1.02)	(1.50)	(2.60)	( )

DEPTH TO BOTTOM (feet) = 14.4 | CASING VOLUME (gal) = 6.40

DEPTH TO WATER (feet) = 4.84 | CALCULATED PURGE (gal) = 19.22

WATER COLUMN HEIGHT (feet) = 9.56 | ACTUAL PURGE (gal) = 20

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	DO	ORP
10/13		6.5	25.8	.285 s/m	6.83	med/yellow	45.5/3.7	-41
		13	26.2	.294	6.80	gray	53.8/4.33	-3
		20	26.6	.292	6.83	↓	65.1/5.24	+35

80% RECHARGE: X YES ___ NO | ANALYSES: ____

ODOR: yes | SAMPLE VESSEL / PRESERVATIVE: ____

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

WELL INTEGRITY: good

COMMENTS: slight sheen

SIGNATURE: ____

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701 PURGED BY: DC/Stu WELL I.D.: OW-2

CLIENT NAME: Penske SAMPLED BY: DC/Stu SAMPLE I.D.: OW-2

LOCATION: 725 Julie Ann Way WHAT QA SAMPLES?: none

DATE PURGED 10/13 START (2400hr) ~~1025~~ 10:35

DATE SAMPLED 10/13 SAMPLE TIME (2400hr) ~~1030~~ 10:50

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

CASING DIAMETER:	2"	3"	4"	5"	6"	8"	Other
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )
			X				

DEPTH TO BOTTOM (feet) = 14.10 CASING VOLUME (gal) = 6.00

DEPTH TO WATER (feet) = 5.14 CALCULATED PURGE (gal) = 18.00

WATER COLUMN HEIGHT (feet) = 8.96 ACTUAL PURGE (gal) = 18+

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	DO	ORP
10/13		6	22.2	.212 s/m	6.86	med/clear	11.1/0.97	-152
		12	23.6	.226	6.78	↓	11.9/1.0	-165
		18	24.2	.219	6.84	↓	11.4/0.95	-159

80% RECHARGE: X YES ___ NO ANALYSES: ____

ODOR: slight odor SAMPLE VESSEL / PRESERVATIVE: ____

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

WELL INTEGRITY: good

COMMENTS: lite sheen

SIGNATURE: ____

HYDROLOGIC DATA SHEET

DATE: 12/4/96 PROJECT: Pearle 4th Qtr PROJECT # 014.07701.

EVENT: _____ SAMPLER: DK

WELL OR LOCATION	TIME	MEASUREMENT					COMMENTS
		TOC	DTW	DTP	PT	ELEV	
MW-1	0951	33.80	6.08				Free Product MIXed with water
MW-2	0944	29.30	7.33				
MW-4	0908	33.10	5.93				
MW-5	0914	31.32	5.48				
MW-7	1020	28.28	5.72				"
MW-8	0903	25.80	5.84				
OW-1	~~09~~ 14:00	14.20	5.17 ~~5.43~~				
PW-2	14:15	13.80	5.45				
MW-3	1012		6.68				

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 | PURGED BY: DC | WELL I.D.: MW-1

CLIENT NAME: Penske | SAMPLED BY: DC | SAMPLE I.D.: MW-1

LOCATION: 725 Julie Ann Way | WHAT QA SAMPLES?: none

DATE PURGED 12/11/00 | START (2400hr) 1300

DATE SAMPLED 12/11/00 | SAMPLE TIME (2400hr) 1450

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

CASING DIAMETER:	2"	3"	4"	5"	6"	8"	Other
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )
			X				

DEPTH TO BOTTOM (feet) = 33.80 | CASING VOLUME (gal) = 18.57

DEPTH TO WATER (feet) = 6.08 | CALCULATED PURGE (gal) = 55.72

WATER COLUMN HEIGHT (feet) = 27.72 | ACTUAL PURGE (gal) = 56.00

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. °C (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	DO (mg/L) (%)	ORP
12/11/00	1341	18	18.3	0.290	7.25	medium	10.3/0.92	-72
12/11/00	1400	18	18.6	0.256	6.93	medium	6.4/0.60	-70
12/11/00	1415	20	18.9	0.259	7.05	medium	14.3/1.34	-55

80% RECHARGE: X YES __ NO | ANALYSES: TPHg BTEX MTBE TPHd

ODOR: strong | SAMPLE VESSEL / PRESERVATIVE: 3 VOAs 1 Amber Liter

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	____ Dedicated ____	____ Peristaltic Pump	____ Dedicated ____
Other: Centrifugal pump		Other:	
Pump Depth: ____			

WELL INTEGRITY: good

COMMENTS: product in well, sharp edged, degraded looking

SIGNATURE: Blair Caudill

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701 | PURGED BY: DC | WELL I.D.: MW2

CLIENT NAME: Penske | SAMPLED BY: DC | SAMPLE I.D.: MW2

LOCATION: 725 Julie Ann Way | WHAT QA SAMPLES?: none

DATE PURGED 12/11/00 | START (2400hr) 1120

DATE SAMPLED 12/11/00 | SAMPLE TIME (2400hr) 12:25

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

CASING DIAMETER:	2"	3"	4"	5"	6"	8"	Other
Casing Volume: (gallons per foot)	(0.17)	(0.38)	X (0.67)	(1.02)	(1.50)	(2.60)	( )

DEPTH TO BOTTOM (feet) = 29.30 | CASING VOLUME (gal) = 14.72

DEPTH TO WATER (feet) = 7.33 | CALCULATED PURGE (gal) = 44.15

WATER COLUMN HEIGHT (feet) = 21.97 | ACTUAL PURGE (gal) = 44.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. °C (degrees ~~F~~)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	DO % / (mg/L)	ORP
12/11	1200	16	17.1	1.213	6.98	Low	24.8 / 2.31	77
12/11	1210	30	18.1	0.668	7.25	Low/medium	19.6 / 1.85	19
12/11	1220	44.5	18.4	0.646	7.28	Low/med.	20.7 / 1.96	24

80% RECHARGE: X YES __ NO | ANALYSES: TPHg BTEX MTBE TPHd

ODOR: none | SAMPLE VESSEL / PRESERVATIVE: 3 VOAs 1 Amber 4 liter

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

COMMENTS: lots of mud - needs to be dug out some

SIGNATURE: Brian Cook

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701 | PURGED BY: DC | WELL I.D.: MW4

CLIENT NAME: Penske | SAMPLED BY: DC | SAMPLE I.D.: MW 4

LOCATION: 725 Julie Ann Way | WHAT QA SAMPLES?: none

DATE PURGED 12/11/00 | START (2400hr) 1100

DATE SAMPLED 12/11/00 | SAMPLE TIME (2400hr) 13:15

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) = 33.10 | CASING VOLUME (gal) = 18.20

DEPTH TO WATER (feet) = 5.93 | CALCULATED PURGE (gal) = 54.61

WATER COLUMN HEIGHT (feet) = 27.17 | ACTUAL PURGE (gal) = 57

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	DO % / (mg/L)	ORP
12/11	1100	19	18.5	0.791	6.98	Low/medium	1.14/11.2	-125
12/11	1130	38	18.2	0.974	7.05	low/medium	15.7/1.48	-31
12/11	1150	57	18.3	1.18	6.99	low/medium	23.9/2.27	74

80% RECHARGE: X YES ___ NO | ANALYSES: TPHg BTEX MTBE TPHd

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

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

COMMENTS: some bio growth - clear to gray

SIGNATURE: Ben Cardiff

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701 | PURGED BY: DC | WELL I.D.: MW5

CLIENT NAME: Penske | SAMPLED BY: DC | SAMPLE I.D.: MW5

LOCATION: 725 Julie Ann Way | WHAT QA SAMPLES?: none

DATE PURGED 12/11 | START (2400hr) 9:50

DATE SAMPLED 12/11 | SAMPLE TIME (2400hr) 14:00

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

CASING DIAMETER: Casing Volume: (gallons per foot)	2" (0.17)	3" (0.38)	4" (0.67)	5" (1.02)	6" (1.50)	8" (2.60)	Other ( )
	____	____	X	____	____	____	____

DEPTH TO BOTTOM (feet) = 31.32 | CASING VOLUME (gal) = 17.31

DEPTH TO WATER (feet) = 5.48 | CALCULATED PURGE (gal) = 51.93

WATER COLUMN HEIGHT (feet) = 25.84 | ACTUAL PURGE (gal) = ____

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	DO	ORP
12/11	10:20	17	17.9	.509 S/m	7.77	low	42.4/3.99	-25
	10:30	34	18.4	.534 S/m	7.63	low	38.1/3.58	-39
	10:45	52	17	0.522 S/m	7.28	low	42.6/4.14	-31

80% RECHARGE: X YES __ NO | ANALYSES: MTBE, BTEX, TPHd, TPHg

ODOR: no | SAMPLE VESSEL / PRESERVATIVE: 3 VOAs 1 Amber Liter

PURGING EQUIPMENT

____ Well Wizard Bladder Pump
____ Active Extration Well Pump
____ Submersible Pump
____ Peristaltic Pump
____ Bailer (Teflon)
____ Bailer (PVC or ___disp)
____ Bailer (Stainless Steel)
____ Dedicated ____
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

COMMENTS: very near puddle & concrete truck rinsate

SIGNATURE: [signature]

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701 PURGED BY: DC WELL I.D.: MW-7

CLIENT NAME: Penske SAMPLED BY: DC SAMPLE I.D.: MW-7

LOCATION: 725 Julie Ann Way WHAT QA SAMPLES?: _____

DATE PURGED 12/12/00 START (2400hr) 9:30

DATE SAMPLED 12/12/00 SAMPLE TIME (2400hr) 10:30

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) = 28.28 CASING VOLUME (gal) = 15.12

DEPTH TO WATER (feet) = 5.72 CALCULATED PURGE (gal) = 45.35

WATER COLUMN HEIGHT (feet) = 22.56 ACTUAL PURGE (gal) = 46.00

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	% / mg/L DO	ORP mV
12/12	9:45	15	15.9	.438 S/m	7.00	low	13.6 / 1.34	-30
	10:10	30	17.0	.411 S/m	7.03	low	11.6 / 1.12	-54
	10:30	46	17.3	.412 S/m	7.02	low	12.9 / 1.25	-70

80% RECHARGE: X YES ___ NO ANALYSES: TPHg / BTEX / MTBE TPHd

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

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

COMMENTS: product in well, sharp edged, degraded looking

SIGNATURE: [signature]

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701 | PURGED BY: DC | WELL I.D.: MW 8

CLIENT NAME: Penske | SAMPLED BY: DC | SAMPLE I.D.: MW 8

LOCATION: 725 Julie Ann Way | WHAT QA SAMPLES?: none

DATE PURGED 12/11/00 | START (2400hr) 1230

DATE SAMPLED ~~12/11/00~~ 12/12/00 | SAMPLE TIME (2400hr) 11:30

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

CASING DIAMETER:	2"	3"	4"	5"	6"	8"	Other
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	( )
			X				

DEPTH TO BOTTOM (feet) = 25.80 | CASING VOLUME (gal) = 13.32

DEPTH TO WATER (feet) = 5.84 | CALCULATED PURGE (gal) = 40.12

WATER COLUMN HEIGHT (feet) = 19.96 | ACTUAL PURGE (gal) = 43

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. °C (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	% / (mg/L) DO	ORP
12/11/00	1255	15	17.5	0.752	7.18	Low/medium	11.2 / 1.08	24
12/11/00	1305	15	17.8	0.931	7.18	Low/medium	11.5 / 1.10	52
12/11/00	1318	13	17.7	0.846	7.05	Low/med.	13.1 / 1.16	-61

80% RECHARGE: X YES ___ NO | ANALYSES: TPHg BTEX MTBE TPHd

ODOR: none | SAMPLE VESSEL / PRESERVATIVE: 3 VOAs 1 Amber 1 poly Hex Cr W HNO3 Cam 17 1 250 poly

PURGING EQUIPMENT

___ Well Wizard Bladder Pump	___ Bailer (Teflon)
___ Active Extration Well Pump	X Bailer (PVC or ~~X~~ disp)
___ Submersible Pump	___ Bailer (Stainless Steel)
___ Peristaltic Pump	___ Dedicated ____

Other: Centrifugal pump

Pump Depth: ____

SAMPLING EQUIPMENT

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

Other: ____

WELL INTEGRITY: good

COMMENTS:

SIGNATURE: Ben Cardiff

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

CLIENT NAME: | SAMPLED BY: DC | SAMPLE I.D.: OW-1

LOCATION: | WHAT QA SAMPLES?: none

DATE PURGED 12/11/00 | START (2400hr) 1415

DATE SAMPLED 12/12/00 | 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) = 14.20 | CASING VOLUME (gal) = 6.05

DEPTH TO WATER (feet) = 5.17 | CALCULATED PURGE (gal) = 18.15

WATER COLUMN HEIGHT (feet) = 9.03 | ACTUAL PURGE (gal) = 19.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	DO (%)/(mg/L)	ORP
12/11/00	1422	6.5	19.9	0.277	6.81	medium	12.9/1.17	-32
12/11/00	1426	13	20.1	0.275	6.83	medium	13.3/1.23	-19
12/11/00	1431	19.5	20.0	0.273	6.73	medium	9.4/0.85	-13
12/12	10:50	—	17.8	.283 s/m	6.94	low	21.3/1.98	-5

Fe^{2+} = 3.4 mg/L

80% RECHARGE: X YES ___ NO | ANALYSES: TPHg BTEX MTBE TPHd Nitrate/Sulfate

ODOR: none | SAMPLE VESSEL / PRESERVATIVE: 3 VOAs 1 Amber Liter 1 500 ml poly

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extration Well Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
X Bailer (PVC or X disp)
___ Bailer (Stainless Steel)
___ Dedicated
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

COMMENTS: some reddish bio-growth

SIGNATURE: Ryan Cardiff

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

CLIENT NAME: | SAMPLED BY: DC | SAMPLE I.D.: OW-2

LOCATION: | WHAT QA SAMPLES?: noR

DATE PURGED 12/11/00 | START (2400hr) 1435

DATE SAMPLED 12/12/00 | SAMPLE TIME (2400hr) 11:10

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

CASING DIAMETER:	2"	3"	4"	5"	6"	8"	Other
Casing Volume: (gallons per foot)	(0.17)	(0.38)	X (0.67)	(1.02)	(1.50)	(2.60)	( )

DEPTH TO BOTTOM (feet) = 13.80 | CASING VOLUME (gal) = 5.59

DEPTH TO WATER (feet) = 5.45 | CALCULATED PURGE (gal) = 16.78

WATER COLUMN HEIGHT (feet) = 8.35 | ACTUAL PURGE (gal) = ___

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. C (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	TURBIDITY (visual)	DO (%)/mg/L	ORP
12/11/00	1441	6.5	19.7	0.260	6.76	medium	10.7/0.99	-112
12/11/00	1453	12	19.5	0.256	6.86	medium	14.2/1.26	-105
12/11/00	1503	17	19.5	0.251	6.89	medium	12.5/1.14	-86
12/12	11:05	—	18.8	.263 S/m	6.90	low	15.6/1.44	-76

Fe^{2+} = 4.6 mg/L

80% RECHARGE: X YES ___ NO | ANALYSES: TPHg BTEX MTBE TPHd Nitrate Sulfate

ODOR: none | SAMPLE VESSEL / PRESERVATIVE: 3 VOAs 1 Amber 1500ml poly

PURGING EQUIPMENT

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

SAMPLING EQUIPMENT

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

WELL INTEGRITY: good

COMMENTS: some reddish bio-growth

SIGNATURE: Blair Condiff

HYDROLOGIC DATA SHEET

DATE: 3/14/01 PROJECT: ~~GM~~ PENSKE PROJECT # 014. 07706. 002

EVENT: Water Sampling SAMPLER: TONY PERINI / TIM MILLER

WELL OR LOCATION	TIME	MEASUREMENT					COMMENTS
		TOC	DTW	DTP	PT	ELEV	
MW-1	1030	33.8	[redacted]	6.11			
MW-2	1030	29.3	5.75				
MW-3	1030		5.85				
MW-4	1030	33.10	5.04				
MW-5	0930	31.32	4.57				
MW-6	1030		5.11				
MW-7	1035	28.28	4.58				
MW-8	1030	25.80	4.90				
OW-1	0936	14.2	4.54				
OW-2	0935	13.8	4.77				

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 PURGED BY: TONY PERINI WELL I.D.: OW-4

CLIENT NAME: PENSKE SAMPLED BY: TONY PERINI SAMPLE I.D.: OW-4

LOCATION: 725 Butler Ave, Oakland WHAT QA SAMPLES?: None

DATE PURGED 3/14/01 START (2400hr) 0945 END (2400hr) 1000

DATE SAMPLED 3/14/01 SAMPLE TIME (2400hr) 1000

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) = 13.8 CASING VOLUME (gal) = 6.05

DEPTH TO WATER (feet) = 4.77 CALCULATED PURGE (gal) = 18.15

WATER COLUMN HEIGHT (feet) = 9.03 ACTUAL PURGE (gal) = ~20

FIELD MEASUREMENTS ERR02

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. C (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)	ORP ~~DTW~~ (ft)
3/14/01	9:45	~6	25.0°C	0.242	7.01	light brown	low	
	9:55	~12	25.0°	0.52 ms/cm	7.55	light brown	low	
↓	10:00	~20	25.0°	0.239	7.04	light brown	low	5 ft
								ERR02
						Fe 2+ =	2.1 mg/L	
			D.O.	2.89 mg/L	21.9 %			

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: ____ SAMPLE TURBIDITY: ____N/A____

80% RECHARGE: ✓ YES ___ NO ANALYSES: ~~TEH~~ TPH-d, BTEX, MTBE, TPH-g, Nitrate, Sulfate

ODOR: moderate SAMPLE VESSEL / PRESERVATIVE: 1-L Amber/none, 3-VOAs/HCl, 500ml poly/none

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extration Well Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
X Bailer (PVC or X disp)
___ Bailer (Stainless Steel)
___ Dedicated ____
Other: ____
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: Tony Perini

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701 PURGED BY: TIM MILLER WELL I.D.: OW-2

CLIENT NAME: PENSKE SAMPLED BY: TIM MILLER SAMPLE I.D.: OW-2

LOCATION: ~~Fuske, Oakland~~ 725 Juliac Ave, Oakland WHAT QA SAMPLES?: _____

DATE PURGED 3/14/01 START (2400hr) 0940 END (2400hr) 1000

DATE SAMPLED 3/14/01 SAMPLE TIME (2400hr) 1000

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) = 14.2 CASING VOLUME (gal) = 6.47

DEPTH TO WATER (feet) = 4.54 CALCULATED PURGE (gal) = 19.4

WATER COLUMN HEIGHT (feet) = 9.66 ACTUAL PURGE (gal) = 20

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. C° (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)	ORP ~~DTW~~ (ft)
3/14/01	9:45	~65	25.0°	0.217 ~~ms/cm~~	7.35	light brown	mod.	
	9:55	~13	25.0°	0.261	7.14	light brown	low	
↓	10:00	~20	25.0°	0.238	7.16	light brown	low	54
								[redacted]
			* Err 02 on		pH/Cond	meter	Fe^{2+} = 4.4 mg/L	
			D.O. 2.68 mg/L		27.8%			

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: _____ SAMPLE TURBIDITY: ____N/A_____

80% RECHARGE: ✓YES ___NO ANALYSES: TPHd, BTEX, MTBE, TPHg, Nitrate/Sulfate

ODOR: moderate SAMPLE VESSEL / PRESERVATIVE: 1-Liter Amber/none, 3-VOAs/HCl, 500ml poly/non

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extration Well Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
X Bailer (PVC or X disp)
___ Bailer (Stainless Steel)
___ Dedicated _____

Other: _____

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: _____ Page ___ of ___

SECOR *International Incorporated*
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 014.07201 Purged By: T. Perini Well I.D.: MW-1
Client Name: PENSKE Sampled By: T. Perini Sample I.D.: MW-1
Location: Penske, Oakland What QA Samples?: None
725 Julie Ann, Oakland

Date Purged: 3/14/01 Start (2400hr): 1400 End (2400hr): ~~1440~~ 1430
Date Sampled: 3/14/01 Sample Time (2400hr): ~~1440~~ 1430

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)	( )

Total depth (feet) = 33.80 Casing Volume (gal) = 18.55
Depth to water (feet) = 6.11 Calculated Purge (gal) = 55.7 (3 casing vols.)
Water column height (feet) = 27.69 Actual Purge (gal) = ~56
ERA 02

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (umhos/cm) mS/m	pH (units)	Color (visual)	D.O. (mg/L)	D.O. (%)	ORP (mV)
3/14/01	14:10	~19	19.7	0.804	7.04	clear	1.11	11.9%	~~57~~
"	14:20	~38	19.8	0.764	7.07	clear	1.30	14.2	76
"	14:30	~56	20.0	0.745	7.07	clear	1.24	14.8	66

D.O: ____ mg/l, ____ %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
X Centrifugal (trash) pump
Other: ____
Pump Depth: ____ (feet)
___ Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated ____

SAMPLING EQUIPMENT

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

Analyses: TPHg, TPHd, BTEX, MTBE,
Sample Vessel / Preservative: 3-VOAs / HCl
1-Liter Amber / none
Odor: slight.

Well Integrity: ____
Remarks: good, small black globules on bailer when sampling

Signature: Tony Perini

Page 1 of ___

SECOR *International Incorporated*
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 014.0770l Purged By: T. Miller Well I.D.: MW-2
Client Name: PENSKE Sampled By: T. Miller Sample I.D.: MW-2
Location: Penske, Oakland What QA Samples?: none
725 Julie Ann, Oakland

Date Purged: 3/14/01 Start (2400hr): 11:00 End (2400hr): 1300
Date Sampled: 3/14/01 Sample Time (2400hr): 1300

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) ( )

Total depth (feet) = 29.30 Casing Volume (gal) = 15.78
Depth to water (feet) = 5.75 Calculated Purge (gal) = 47.34 (3 casing vols.)
Water column height (feet) = 23.55 Actual Purge (gal) = 48

FIELD MEASUREMENTS (E1102)

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity S/m	pH (units)	Color (visual)	D.O. (mg/L)	ORP (mV)
3/14/01	12:30	15.5	19.9	.222	7.84	gray	1.83/19.9%	113
↓	12:45	31	20.1	.488	7.33	gray	1.67/17.2%	49
	12:55	48	19.9	.561	7.34	light gray	1.46/15.1%	11

D.O: mg/l, %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Centrifugal (trash) pump
X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated ___
Other: ___
Pump Depth: ___ (feet)

SAMPLING EQUIPMENT

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

Analyses: TPHd, TPHg, BTEX, MTBE
Sample Vessel / Preservative: 1-Liter Amber/none Odor: NO
3-VOAs/ HCl

Well Integrity: good
Remarks: mud above well cap, removed w/ hand

Signature: [signature] Page 1 of __

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 014.07701 PURGED BY: TONY PERINI WELL I.D.: MW-4

CLIENT NAME: PENSKE SAMPLED BY: TONY PERINI SAMPLE I.D.: MW-4

LOCATION: 725 Duke Ave, Oakland WHAT QA SAMPLES?: none

DATE PURGED 3/14/01 START (2400hr) 1130 END (2400hr) 1245

DATE SAMPLED 3/14/01 SAMPLE TIME (2400hr) 1245

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) = 33.10 CASING VOLUME (gal) = 18.8

DEPTH TO WATER (feet) = 5.04 CALCULATED PURGE (gal) = 56.4

WATER COLUMN HEIGHT (feet) = 28.06 ACTUAL PURGE (gal) = 57

FIELD MEASUREMENTS [ERR2]

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. C° (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	D.O. (mg/l)	TURBIDITY (NTU)	(mV) ORP ~~DTW~~ (ft)
3/14/01	12:00	~20	19.9°	1.163 S/m	~~6.99~~	clear	12.3%	low	205
↓	12:10	~40	20.6°	1.270 S/m	~~6.95~~	clear	13.7%; 1.31	low	145
↓	12:20	~60	21.6°	1.834 S/m	6.81	clear	15%; 1.28	low	91

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: ____ SAMPLE TURBIDITY: ____N/A____

80% RECHARGE: ✓ YES ___NO ANALYSES: TPHd, TPHg, BTEX, MTBE

ODOR: moderate SAMPLE VESSEL / PRESERVATIVE: 1-Liter Amber/none
3-VOAs/HCl

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extration Well Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
✓ Bailer (PVC or ✓ disp)
___ Bailer (Stainless Steel)
___ Dedicated ____

Other: ____

Pump Depth: ____

SAMPLING EQUIPMENT

___ WW Bladder Pump
___ Sample Port
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
✓ Bailer (___PVC or ✓ disposable)
___ Bailer (Stainless Steel)
___ Dedicated ____

Other: ____

WELL INTEGRITY: good LOCK#: ____

REMARKS: ___FOR WW PURGING: DISCHARGE TIME ____, REFILL TIME ____, AIR PRESSURE ____

SIGNATURE: Tony Perini

Page ___ of ___

SECOR *International Incorporatea*

GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 014.07701 Purged By: T. Miller Well I.D.: MW-7
Client Name: PENSKE Sampled By: T. Miller Sample I.D.: MW-7
Location: Penske Oakland What QA Samples?: none
725 Julie Ann, Oakland

Date Purged: 3/14/01 Start (2400hr): 1205 End (2400hr): 1330
Date Sampled: ↓ Sample Time (2400hr): 1330

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)	( )

Total depth (feet) = 28.28 Casing Volume (gal) = 15.9
Depth to water (feet) = 4.58 Calculated Purge (gal) = 47.6 (3 casing vols.)
Water column height (feet) = 23.7 Actual Purge (gal) = 48

ERR02

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity S/m (~~umhos/cm~~)	pH (units)	Color (visual)	D.O. (mg/L)	ORP (mV)
3/14/01	13:10	~16	19.2°	0.683 ~~ES~~	7.09	clear	1.38 / 15.2%	21
	13:24	~32	19.5°	0.672	7.20	clear	1.06 / 11.4%	25
↓	13:30	~48	19.6°	0.666	7.10	clear	0.94 / 10.6%	6

D.O: mg/l, %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
X Centrifugal (trash) pump
___ Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated
Other:
Pump Depth: ___ (feet)

SAMPLING EQUIPMENT

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

Analyses: TPHd, TPHg, BTEX, MTBE
Sample Vessel / Preservative: 1-Liter Amber/none Odor: moderate
3-VOAs/HCl

Well Integrity: good
Remarks: # globules of product in 1st bail (before trash pump). Globules in bailer after trash pump.

Signature:

Page 1 of ___

SECOR *International Incorporated*

GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 014.07701 Purged By: T. Perini Well I.D.: MW-8

Client Name: PETROKE Sampled By: T PERINI Sample I.D.: MW-8

Location: 725 Julie Ann, Oakland What QA Samples?: none

Date Purged: 3/14/01 Start (2400hr): 13:15 End (2400hr): 1401

Date Sampled: 3/14/01 Sample Time (2400hr): 1401

Casing Diameter:	2"	3"	4"	5"	6"	8"	Other
Casing Volume: (gallons per foot)	(0.17)	(0.38)	X (0.67)	(1.02)	(1.50)	(2.60)	( )

Total depth (feet) = 25.80 Casing Volume (gal) = 14.00

Depth to water (feet) = 4.90 Calculated Purge (gal) = 42.00 (3 casing vols.)

Water column height (feet) = 20.9 Actual Purge (gal) = 42.00

ERROR

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees F) C	Conductivity ~~(umhos/cm)~~ mS/cm	pH (units)	Color (visual)	D.O (mg/L)	(MV) ORP
3/14/01	13:30	~15	17.0°	0.612	7.20	light brown	2.17/22.6%	14
↓	13:50	~28	17.2°	0.667	7.16	light brown	1.88/20.9%	35
	14:01	~42	17.1°	0.613	7.21	light brown	2.55/26.5%	16

D.O: mg/l, %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Centrifugal (trash) pump
Other: _____
Pump Depth: _____ (feet)

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated _____

SAMPLING EQUIPMENT

___ WW Bladder Pump
___ Sample Port
___ Submersible Pump
___ Peristaltic Pump
Other: _____

X Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated: _____

Analyses: TPH d, TPHg, BTEX, MTBE

Sample Vessel / Preservative: 1-Liter Amber/none Odor: NO

3-VOA/HCl

Well Integrity: good

Remarks: _____

Signature: Tony Perini

Page 1 of ___

APPENDIX B
Laboratory Analytical Results

CHROMALAB, INC.
Environmental Services (SDB)

Submission #: 2000-09-0284
Date: September 22, 2000

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

Attn.: Angus McGrath

Project: 014.07701
Former Penske Trucking-3rd Qtr

Attached is our report for your samples received on Friday September 15, 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 October 30, 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

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096
CA DHS ELAP#1096

Gas/BTEX

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-3rd Qtr

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-2	Water	09/14/2000 09:25	1
MW-8	Water	09/14/2000 10:00	2
OW-1	Water	09/14/2000 11:05	3
OW-2	Water	09/14/2000 12:00	4
MW-4	Water	09/14/2000 12:50	5
MW-7	Water	09/14/2000 13:20	6
MW-1	Water	09/14/2000 14:15	7

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0284

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-2**	Lab Sample ID:	**2000-09-0284-001**
Project:	014.07701 Former Penske Trucking-3rd Qtr	Received:	09/15/2000 13:35
		Extracted:	09/19/2000 02:14
Sampled:	09/14/2000 09:25	QC-Batch:	2000/09/18-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/19/2000 02:14	
Benzene	ND	0.50	ug/L	1.00	09/19/2000 02:14	
Toluene	ND	0.50	ug/L	1.00	09/19/2000 02:14	
Ethyl benzene	ND	0.50	ug/L	1.00	09/19/2000 02:14	
Xylene(s)	ND	0.50	ug/L	1.00	09/19/2000 02:14	
MTBE	ND	5.0	ug/L	1.00	09/27/2000 17:23	
Surrogate(s)						
Trifluorotoluene	115.7	58-124	%	1.00	09/19/2000 02:14	
4-Bromofluorobenzene-FID	91.6	50-150	%	1.00	09/19/2000 02:14	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-8**	Lab Sample ID:	**2000-09-0284-002**
Project:	014.07701 Former Penske Trucking-3rd Qtr	Received:	09/15/2000 13:35
		Extracted:	09/19/2000 02:46
Sampled:	09/14/2000 10:00	QC-Batch:	2000/09/18-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/19/2000 02:46	
Benzene	ND	0.50	ug/L	1.00	09/19/2000 02:46	
Toluene	ND	0.50	ug/L	1.00	09/19/2000 02:46	
Ethyl benzene	ND	0.50	ug/L	1.00	09/19/2000 02:46	
Xylene(s)	ND	0.50	ug/L	1.00	09/19/2000 02:46	
MTBE	ND	5.0	ug/L	1.00	09/27/2000 17:55	
Surrogate(s)						
Trifluorotoluene	114.0	58-124	%	1.00	09/19/2000 02:46	
4-Bromofluorobenzene-FID	88.5	50-150	%	1.00	09/19/2000 02:46	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0284

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**OW-1**	Lab Sample ID:	**2000-09-0284-003**
Project:	014.07701 Former Penske Trucking-3rd Qtr	Received:	09/15/2000 13:35
		Extracted:	09/19/2000 04:55
Sampled:	09/14/2000 11:05	QC-Batch:	2000/09/18-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	180	50	ug/L	1.00	09/19/2000 04:55	
Benzene	ND	0.50	ug/L	1.00	09/19/2000 04:55	
Toluene	ND	0.50	ug/L	1.00	09/19/2000 04:55	
Ethyl benzene	ND	0.50	ug/L	1.00	09/19/2000 04:55	
Xylene(s)	ND	0.50	ug/L	1.00	09/19/2000 04:55	
MTBE	ND	5.0	ug/L	1.00	09/27/2000 18:24	
Surrogate(s)						
Trifluorotoluene	97.7	58-124	%	1.00	09/19/2000 04:55	
4-Bromofluorobenzene-FID	88.0	50-150	%	1.00	09/19/2000 04:55	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**OW-2**	Lab Sample ID:	**2000-09-0284-004**
Project:	014.07701 Former Penske Trucking-3rd Qtr	Received:	09/15/2000 13:35
		Extracted:	09/19/2000 05:28
Sampled:	09/14/2000 12:00	QC-Batch:	2000/09/18-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	590	50	ug/L	1.00	09/19/2000 05:28	
Benzene	26	0.50	ug/L	1.00	09/19/2000 05:28	
Toluene	0.79	0.50	ug/L	1.00	09/19/2000 05:28	
Ethyl benzene	ND	0.50	ug/L	1.00	09/19/2000 05:28	
Xylene(s)	1.7	0.50	ug/L	1.00	09/19/2000 05:28	
MTBE	17	5.0	ug/L	1.00	09/27/2000 18:55	
Surrogate(s)						
Trifluorotoluene	101.2	58-124	%	1.00	09/19/2000 05:28	
4-Bromofluorobenzene-FID	89.8	50-150	%	1.00	09/19/2000 05:28	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-4**	Lab Sample ID:	**2000-09-0284-005**
Project:	014.07701 Former Penske Trucking-3rd Qtr	Received:	09/15/2000 13:35
		Extracted:	09/19/2000 06:00
Sampled:	09/14/2000 12:50	QC-Batch:	2000/09/18-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	130	50	ug/L	1.00	09/19/2000 06:00	g
Benzene	ND	0.50	ug/L	1.00	09/19/2000 06:00	
Toluene	ND	0.50	ug/L	1.00	09/19/2000 06:00	
Ethyl benzene	ND	0.50	ug/L	1.00	09/19/2000 06:00	
Xylene(s)	ND	0.50	ug/L	1.00	09/19/2000 06:00	
MTBE	ND	5.0	ug/L	1.00	09/28/2000 17:28	
Surrogate(s)						
Trifluorotoluene	87.7	58-124	%	1.00	09/19/2000 06:00	
4-Bromofluorobenzene-FID	77.9	50-150	%	1.00	09/19/2000 06:00	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-7**	Lab Sample ID:	**2000-09-0284-006**
Project:	014.07701 Former Penske Trucking-3rd Qtr	Received:	09/15/2000 13:35
		Extracted:	09/19/2000 06:33
Sampled:	09/14/2000 13:20	QC-Batch:	2000/09/18-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1900	250	ug/L	5.00	09/19/2000 06:33	
Benzene	11	2.5	ug/L	5.00	09/19/2000 06:33	
Toluene	ND	2.5	ug/L	5.00	09/19/2000 06:33	
Ethyl benzene	10	2.5	ug/L	5.00	09/19/2000 06:33	
Xylene(s)	39	2.5	ug/L	5.00	09/19/2000 06:33	
MTBE	ND	5.0	ug/L	5.00	09/27/2000 19:58	
Surrogate(s)						
Trifluorotoluene	90.2	58-124	%	1.00	09/19/2000 06:33	
4-Bromofluorobenzene-FID	88.4	50-150	%	1.00	09/19/2000 06:33	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-1**	Lab Sample ID:	**2000-09-0284-007**
Project:	014.07701 Former Penske Trucking-3rd Qtr	Received:	09/15/2000 13:35
		Extracted:	09/19/2000 07:05
Sampled:	09/14/2000 14:15	QC-Batch:	2000/09/18-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1100	250	ug/L	5.00	09/19/2000 07:05	
Benzene	34	2.5	ug/L	5.00	09/19/2000 07:05	
Toluene	ND	2.5	ug/L	5.00	09/19/2000 07:05	
Ethyl benzene	3.9	2.5	ug/L	5.00	09/19/2000 07:05	
Xylene(s)	17	2.5	ug/L	5.00	09/19/2000 07:05	
MTBE	ND	5.0	ug/L	5.00	09/27/2000 20:29	
Surrogate(s)						
Trifluorotoluene	93.9	58-124	%	1.00	09/19/2000 07:05	
4-Bromofluorobenzene-FID	86.2	50-150	%	1.00	09/19/2000 07:05	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank | **Water** | **QC Batch # 2000/09/18-01.05**

MB: 2000/09/18-01.05-001

Date Extracted: 09/18/2000 07:08

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	09/18/2000 07:08	
Benzene	ND	0.5	ug/L	09/18/2000 07:08	
Toluene	ND	0.5	ug/L	09/18/2000 07:08	
Ethyl benzene	ND	0.5	ug/L	09/18/2000 07:08	
Xylene(s)	ND	0.5	ug/L	09/18/2000 07:08	
Surrogate(s)					
Trifluorotoluene	117.4	58-124	%	09/18/2000 07:08	
4-Bromofluorobenzene-FID	75.6	50-150	%	09/18/2000 07:08	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank | **Water** | **QC Batch # 2000/09/27-01.02**

MB: 2000/09/27-01.02-001

Date Extracted: 09/27/2000 06:27

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	09/27/2000 06:27	
Benzene	ND	0.5	ug/L	09/27/2000 06:27	
Toluene	ND	0.5	ug/L	09/27/2000 06:27	
Ethyl benzene	ND	0.5	ug/L	09/27/2000 06:27	
Xylene(s)	ND	0.5	ug/L	09/27/2000 06:27	
MTBE	ND	5.0	ug/L	09/27/2000 06:27	
Surrogate(s)					
Trifluorotoluene	80.0	58-124	%	09/27/2000 06:27	
4-Bromofluorobenzene-FID	73.0	50-150	%	09/27/2000 06:27	

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/09/18-01.05**

LCS: 2000/09/18-01.05-002 Extracted: 09/18/2000 07:40 Analyzed 09/18/2000 07:40

LCSD: 2000/09/18-01.05-003 Extracted: 09/18/2000 08:12 Analyzed 09/18/2000 08:12

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	519	575	500	500	103.8	115.0	10.2	75-125	20		
Benzene	116	108	100.0	100.0	116.0	108.0	7.1	77-123	20		
Toluene	117	107	100.0	100.0	117.0	107.0	8.9	78-122	20		
Ethyl benzene	118	108	100.0	100.0	118.0	108.0	8.8	70-130	20		
Xylene(s)	323	305	300	300	107.7	101.7	5.7	75-125	20		
Surrogate(s)											
Trifluorotoluene	611	563	500	500	122.2	112.6		58-124			
4-Bromofluorobenzene-FI	422	467	500	500	84.4	93.4		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0284

To: **SECOR-Oakland**

Test Method: 8015M
8020

Attn: Angus McGrath

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/09/27-01.02**

LCS: 2000/09/27-01.02-002 Extracted: 09/27/2000 06:58 Analyzed 09/27/2000 06:58

LCSD: 2000/09/27-01.02-003 Extracted: 09/27/2000 07:29 Analyzed 09/27/2000 07:29

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	473	464	500	500	94.6	92.8	1.9	75-125	20		
Benzene	102	103	100.0	100.0	102.0	103.0	1.0	77-123	20		
Toluene	98.9	99.6	100.0	100.0	98.9	99.6	0.7	78-122	20		
Ethyl benzene	95.1	96.5	100.0	100.0	95.1	96.5	1.5	70-130	20		
Xylene(s)	271	275	300	300	90.3	91.7	1.5	75-125	20		
Surrogate(s)											
Trifluorotoluene	441	440	500	500	88.2	88.0		58-124			
4-Bromofluorobenzene-FI	438	430	500	500	87.6	86.0		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0284

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX

Matrix Spike (MS / MSD) **Water** **QC Batch # 2000/09/27-01.02**

Sample ID: **MW-2** Lab Sample ID: 2000-09-0284-001

MS: 2000/09/27-01.02-004 Extracted: 09/27/2000 23:36 Analyzed: 09/27/2000 23:36 Dilution: 1.0

MSD: 2000/09/27-01.02-005 Extracted: 09/27/2000 00:07 Analyzed: 09/27/2000 00:07 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	404	442	ND	500	500	80.8	88.4	9.0	65-135	20		
Benzene	106	84.7	ND	100.0	100.0	106.0	84.7	22.3	65-135	20		rpd
Toluene	101	81.5	ND	100.0	100.0	101.0	81.5	21.4	65-135	20		rpd
Ethyl benzene	95.9	76.6	ND	100.0	100.0	95.9	76.6	22.4	65-135	20		rpd
Xylene(s)	272	21800000	ND	300	300	90.7	72666	200.0	65-135	20		rpd
Surrogate(s)												
Trifluorotoluene	449	343		500	500	89.8	68.6		58-124			
4-Bromofluorobenzene-F	379	423		500	500	75.8	84.6		50-150			

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Legend & Notes

Gas/BTEX

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.

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0284

[redacted]

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-3rd Qtr

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-2	Water	09/14/2000 09:25	1
MW-8	Water	09/14/2000 10:00	2
OW-1	Water	09/14/2000 11:05	3
OW-2	Water	09/14/2000 12:00	4
MW-4	Water	09/14/2000 12:50	5
MW-7	Water	09/14/2000 13:20	6
MW-1	Water	09/14/2000 14:15	7

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:	**2000-09-0284-001**
Project:	014.07701 Former Penske Trucking-3rd Qtr	Received:	09/15/2000 13:35
		Extracted:	09/15/2000 13:18
Sampled:	09/14/2000 09:25	QC-Batch:	2000/09/15-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	120	50	ug/L	1.00	09/18/2000 14:13	ldr
Surrogate(s)						
o-Terphenyl	65.9	60-130	%	1.00	09/18/2000 14:13	

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:	**2000-09-0284-002**
Project:	014.07701 Former Penske Trucking-3rd Qtr	Received:	09/15/2000 13:35
		Extracted:	09/15/2000 13:18
Sampled:	09/14/2000 10:00	QC-Batch:	2000/09/15-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	310	50	ug/L	1.00	09/18/2000 14:51	ndp
Surrogate(s)						
o-Terphenyl	103.6	60-130	%	1.00	09/18/2000 14:51	

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:	**2000-09-0284-003**
Project:	014.07701 Former Penske Trucking-3rd Qtr	Received:	09/15/2000 13:35
		Extracted:	09/15/2000 13:18
Sampled:	09/14/2000 11:05	QC-Batch:	2000/09/15-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	5800	50	ug/L	1.00	09/18/2000 15:30	ndp
Surrogate(s)						
o-Terphenyl	96.0	60-130	%	1.00	09/18/2000 15:30	

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:	**2000-09-0284-004**
Project:	014.07701 Former Penske Trucking-3rd Qtr	Received:	09/15/2000 13:35
		Extracted:	09/15/2000 13:18
Sampled:	09/14/2000 12:00	QC-Batch:	2000/09/15-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	6300	50	ug/L	1.00	09/18/2000 16:08	ndp
Surrogate(s)						
o-Terphenyl	88.3	60-130	%	1.00	09/18/2000 16:08	

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:	**2000-09-0284-005**
Project:	014.07701 Former Penske Trucking-3rd Qtr	Received:	09/15/2000 13:35
		Extracted:	09/15/2000 13:18
Sampled:	09/14/2000 12:50	QC-Batch:	2000/09/15-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	19000	250	ug/L	5.00	09/19/2000 19:02	ndp
Surrogate(s)						
o-Terphenyl	98.9	60-130	%	5.00	09/19/2000 19:02	

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:	**2000-09-0284-006**
Project:	014.07701 Former Penske Trucking-3rd Qtr	Received:	09/15/2000 13:35
		Extracted:	09/15/2000 13:18
Sampled:	09/14/2000 13:20	QC-Batch:	2000/09/15-03.10
Matrix:	Water		

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

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	15000000	100000	ug/L	2000.00	09/19/2000 18:24	ndp
Surrogate(s)						
o-Terphenyl	ND	60-130	ug/L	2000.00	09/19/2000 18:24	sd

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:	**2000-09-0284-007**
Project:	014.07701 Former Penske Trucking-3rd Qtr	Received:	09/15/2000 13:35
		Extracted:	09/15/2000 13:18
Sampled:	09/14/2000 14:15	QC-Batch:	2000/09/15-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	770000	10000	ug/L	200.00	09/19/2000 17:45	ndp
Surrogate(s)						
o-Terphenyl	ND	60-130	ug/L	200.00	09/19/2000 17:45	sd

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

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

Batch QC Report
TEPH w/ Silica Gel Clean-up

Method Blank | **Water** | **QC Batch # 2000/09/15-03.10**

MB: 2000/09/15-03.10-001 | Date Extracted: 09/15/2000 13:18

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	09/18/2000 21:37	
Surrogate(s)					
o-Terphenyl	101.5	60-130	%	09/18/2000 21:37	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0284

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 # 2000/09/15-03.10**

LCS: 2000/09/15-03.10-002 Extracted: 09/15/2000 13:18 Analyzed 09/19/2000 03:25

LCSD: 2000/09/15-03.10-003 Extracted: 09/15/2000 13:18 Analyzed 09/19/2000 04:03

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	1090	1080	1250	1250	87.2	86.4	0.9	60-130	25		
Surrogate(s)											
o-Terphenyl	22.9	23.1	20.0	20.0	114.5	115.5		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

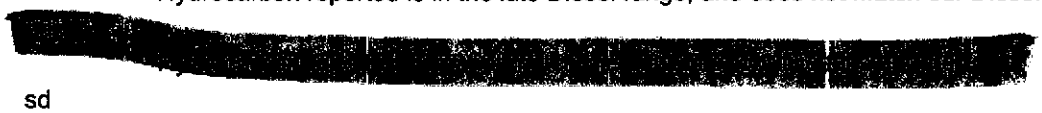
o

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

Analyte Flags

ldr

Hydrocarbon reported is in the late Diesel range, and does not match our Diesel standard



sd

Surrogate diluted out due to the presence of non-target materials.

GeoAnalytical Laboratories, Inc.

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

CERTIFICATE OF ANALYSIS

Report # L259-22 **Date:** 9/28/00

Chromalab
1220 Quarry Lane
Pleasanton CA 94566-4756

Project: 2000-09-0284

PO#

Date Rec'd: 9/15/00
Date Started: 9/15/00
Date Completed: 9/22/00

Date Sampled: 9/14/00
Time:
Sampler:

Sample ID	Lab ID	RL	Method	Analyte	Results	Units
OW-1	L38943	1.0	300.0	Nitrate (NO3)	5.1	mg/L
		1.0	300.0	Sulfate	1.6	mg/L
OW-2	L38944	1.0	300.0	Nitrate (NO3)	4.6	mg/L
		1.0	300.0	Sulfate	ND	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# L259-22

QC REPORT

Chromalab
1220 Quarry Lane
Pleasanton CA 94566-4756

Dates Analyzed 9/15/00-9/22/00

Analyte	Batch #	Method	% Recovery	Duplicate %	RPD	Blank
Nitrate (NO3)	I09254	300.0	118.0	110.0	7.0	ND
Sulfate	I09255	300.0	119.2	106.0	11.7	ND

Ramiro Salgado
Chemist

Certification # 1157

Donna Keller
Laboratory Director

Chain of Custody 2000-09-0284-1

Date Shipped: 09/15/2000

L259-22

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 #: **2000-09-0284**
CL PO #:

Project #: 014.07701
Project Name: Former Penske Trucking-3rd Qtr

Client Sample ID / Analysis	CL#	Sampled	Matrix / Method	Due
OW-1	003	09/14/2000 11:05	Water	L38943
Subcontract - Nitrate	(1)		300/352.1	**09/22/2000 17:00**
Subcontract - Sulfate			300/375.4	**09/22/2000 17:00**
OW-2	004	09/14/2000 12:00	Water	L38944
Subcontract - Nitrate	(1)		300/352.1	**09/22/2000 17:00**
Subcontract - Sulfate			300/375.4	**09/22/2000 17:00**

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

unpreserved

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Chris Rowley 1500		
Signature Time	Signature Time	Signature Time
C Rowley 09/15/00		
Printed Name Date	Printed Name Date	Printed Name Date
Chromalab		
Company	Company	Company
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Janie Andrade 3:00PM.		
Signature Time	Signature Time	Signature Time
Janie Andrade 9-15-00		
Printed Name Date	Printed Name Date	Printed Name Date
GeoAnalytical		
Company	Company	Company

2000-09-0284 Chain-of Custody Number: 54504

SECOR Chain-of Custody Record

Field Office: 005 - Oakland
Address: 360 22nd Street Suite 600
Oakland CA 94609

☐ Additional documents are attached, and are a part of this Record.
Job Name: Former Pearce Trucking - 3rd Qtr
Location: 725 Julie Ann Way
Oakland CA

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

Sampler's Name Dylan Cardiff
Sampler's Signature Dylan Cardiff

Sample ID	Date	Time	Matrix	HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHd/k with silica gel cleanup 8015 (modified)	TPHd/k 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)	TCLP Metals	Nitrate/Sulfate		Comments/ Instructions	Number of Containers
MW-2	9/14	9:25	Aq		X	X														4
MW-8	9/14	10:00	Aq		X	X														4
OW-1	9/14	11:05	Aq		X	X											X			5
OW-2	9/14	12:00	Aq		X	X											X			5
MW-4	9/14	12:50	Aq		X	X														4
MW-7	9/14	13:20	Aq		X	X														4
MW-1	9/14	14:15	Aq		X	X														4

Special Instructions/Comments:

3.5

Relinquished by:
Sign Dylan Cardiff
Print Dylan Cardiff
Company Secor
Time 10:00 Date 9/15/00

Received by:
Sign
Print MUSA
Company
Time 12:20 Date 9/15/00

Relinquished by: MUSA
Sign
Print
Company CH
Time 1:30 Date 9/14/00

Received by:
Sign
Print C. Rowley
Company CHROMALAB
Time 1335 Date 09/15/00

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. 2/99

Date: 9 / 14 / 00 Page 1 of 1

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

Attn.: Angus McGrath

Project: 014.07694
Penske-Peroxide Monitoring

Attached is our report for your samples received on Monday October 16, 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 November 30, 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

SECOR-Oakland

Attn: Angus McGrath

Project #: 014.07694

360 22nd Street, Suite 600
Oakland, CA 94612

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

Project: Penske-Peroxide Monitoring

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	10/13/2000 14:30	1
MW-2	Water	10/13/2000 10:20	2
MW-4	Water	10/13/2000 13:00	3
MW-7	Water	10/13/2000 13:15	4
MW-8	Water	10/13/2000 12:50	5
OW-1	Water	10/13/2000 11:30	6
OW-2	Water	10/13/2000 10:50	7

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0317

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-1**	Lab Sample ID:	**2000-10-0317-001**
Project:	014.07694 Penske-Peroxide Monitoring	Received:	10/16/2000 18:15
		Extracted:	10/19/2000 15:46
Sampled:	10/13/2000 14:30	QC-Batch:	2000/10/19-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	360	50	ug/L	1.00	10/19/2000 15:46	g
Benzene	69	0.50	ug/L	1.00	10/19/2000 15:46	
Toluene	ND	0.50	ug/L	1.00	10/19/2000 15:46	
Ethyl benzene	1.3	0.50	ug/L	1.00	10/19/2000 15:46	
Xylene(s)	2.8	0.50	ug/L	1.00	10/19/2000 15:46	
Surrogate(s)						
Trifluorotoluene	78.1	58-124	%	1.00	10/19/2000 15:46	
4-Bromofluorobenzene-FID	80.8	50-150	%	1.00	10/19/2000 15:46	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0317

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-2**	Lab Sample ID:	**2000-10-0317-002**
Project:	014.07694 Penske-Peroxide Monitoring	Received:	10/16/2000 18:15
		Extracted:	10/19/2000 01:16
Sampled:	10/13/2000 10:20	QC-Batch:	2000/10/18-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/19/2000 01:16	
Benzene	ND	0.50	ug/L	1.00	10/19/2000 01:16	
Toluene	ND	0.50	ug/L	1.00	10/19/2000 01:16	
Ethyl benzene	ND	0.50	ug/L	1.00	10/19/2000 01:16	
Xylene(s)	ND	0.50	ug/L	1.00	10/19/2000 01:16	
Surrogate(s)						
Trifluorotoluene	89.1	58-124	%	1.00	10/19/2000 01:16	
4-Bromofluorobenzene-FID	75.3	50-150	%	1.00	10/19/2000 01:16	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-4**	Lab Sample ID:	**2000-10-0317-003**
Project:	014.07694 Penske-Peroxide Monitoring	Received:	10/16/2000 18:15
		Extracted:	10/20/2000 13:07
Sampled:	10/13/2000 13:00	QC-Batch:	2000/10/19-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	51	50	ug/L	1.00	10/20/2000 13:07	g
Benzene	ND	0.50	ug/L	1.00	10/20/2000 13:07	
Toluene	ND	0.50	ug/L	1.00	10/20/2000 13:07	
Ethyl benzene	ND	0.50	ug/L	1.00	10/20/2000 13:07	
Xylene(s)	ND	0.50	ug/L	1.00	10/20/2000 13:07	
Surrogate(s)						
Trifluorotoluene	80.3	58-124	%	1.00	10/20/2000 13:07	
4-Bromofluorobenzene-FID	78.7	50-150	%	1.00	10/20/2000 13:07	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0317

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-7**	Lab Sample ID:	**2000-10-0317-004**
Project:	014.07694 Penske-Peroxide Monitoring	Received:	10/16/2000 18:15
		Extracted:	10/25/2000 16:56
Sampled:	10/13/2000 13:15	QC-Batch:	2000/10/25-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1400	250	ug/L	5.00	10/25/2000 16:56	g
Benzene	23	2.5	ug/L	5.00	10/25/2000 16:56	
Toluene	ND	2.5	ug/L	5.00	10/25/2000 16:56	
Ethyl benzene	6.8	2.5	ug/L	5.00	10/25/2000 16:56	
Xylene(s)	11	2.5	ug/L	5.00	10/25/2000 16:56	
Surrogate(s)						
Trifluorotoluene	87.9	58-124	%	1.00	10/25/2000 16:56	
4-Bromofluorobenzene-FID	80.0	50-150	%	1.00	10/25/2000 16:56	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-8**	Lab Sample ID:	**2000-10-0317-005**
Project:	014.07694 Penske-Peroxide Monitoring	Received:	10/16/2000 18:15
		Extracted:	10/17/2000 18:20
Sampled:	10/13/2000 12:50	QC-Batch:	2000/10/17-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/17/2000 18:20	
Benzene	ND	0.50	ug/L	1.00	10/17/2000 18:20	
Toluene	ND	0.50	ug/L	1.00	10/17/2000 18:20	
Ethyl benzene	ND	0.50	ug/L	1.00	10/17/2000 18:20	
Xylene(s)	ND	0.50	ug/L	1.00	10/17/2000 18:20	
Surrogate(s)						
Trifluorotoluene	106.3	58-124	%	1.00	10/17/2000 18:20	
4-Bromofluorobenzene-FID	77.5	50-150	%	1.00	10/17/2000 18:20	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0317

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**OW-1**	Lab Sample ID:	**2000-10-0317-006**
Project:	014.07694 Penske-Peroxide Monitoring	Received:	10/16/2000 18:15
		Extracted:	10/17/2000 17:47
Sampled:	10/13/2000 11:30	QC-Batch:	2000/10/17-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	150	50	ug/L	1.00	10/17/2000 17:47	g
Benzene	1.0	0.50	ug/L	1.00	10/17/2000 17:47	
Toluene	ND	0.50	ug/L	1.00	10/17/2000 17:47	
Ethyl benzene	ND	0.50	ug/L	1.00	10/17/2000 17:47	
Xylene(s)	ND	0.50	ug/L	1.00	10/17/2000 17:47	
Surrogate(s)						
Trifluorotoluene	102.2	58-124	%	1.00	10/17/2000 17:47	
4-Bromofluorobenzene-FID	77.8	50-150	%	1.00	10/17/2000 17:47	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**OW-2**	Lab Sample ID:	**2000-10-0317-007**
Project:	014.07694 Penske-Peroxide Monitoring	Received:	10/16/2000 18:15
		Extracted:	10/17/2000 16:42
Sampled:	10/13/2000 10:50	QC-Batch:	2000/10/17-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	390	50	ug/L	1.00	10/17/2000 16:42	g
Benzene	2.5	0.50	ug/L	1.00	10/17/2000 16:42	
Toluene	ND	0.50	ug/L	1.00	10/17/2000 16:42	
Ethyl benzene	ND	0.50	ug/L	1.00	10/17/2000 16:42	
Xylene(s)	ND	0.50	ug/L	1.00	10/17/2000 16:42	
Surrogate(s)						
Trifluorotoluene	107.2	58-124	%	1.00	10/17/2000 16:42	
4-Bromofluorobenzene-FID	84.6	50-150	%	1.00	10/17/2000 16:42	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank | **Water** | **QC Batch # 2000/10/17-01.05**

MB: 2000/10/17-01.05-001

Date Extracted: 10/17/2000 06:33

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	10/17/2000 06:33	
Benzene	ND	0.5	ug/L	10/17/2000 06:33	
Toluene	ND	0.5	ug/L	10/17/2000 06:33	
Ethyl benzene	ND	0.5	ug/L	10/17/2000 06:33	
Xylene(s)	ND	0.5	ug/L	10/17/2000 06:33	
Surrogate(s)					
Trifluorotoluene	63.6	58-124	%	10/17/2000 06:33	
4-Bromofluorobenzene-FID	63.2	50-150	%	10/17/2000 06:33	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank | **Water** | **QC Batch # 2000/10/19-01.02**

MB: 2000/10/19-01.02-001

Date Extracted: 10/19/2000 06:49

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	10/19/2000 06:49	
Benzene	ND	0.5	ug/L	10/19/2000 06:49	
Toluene	ND	0.5	ug/L	10/19/2000 06:49	
Ethyl benzene	ND	0.5	ug/L	10/19/2000 06:49	
Xylene(s)	ND	0.5	ug/L	10/19/2000 06:49	
Surrogate(s)					
Trifluorotoluene	73.8	58-124	%	10/19/2000 06:49	
4-Bromofluorobenzene-FID	79.0	50-150	%	10/19/2000 06:49	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank | **Water** | **QC Batch # 2000/10/18-01.05**

MB: 2000/10/18-01.05-001

Date Extracted: 10/18/2000 11:47

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	10/18/2000 11:47	
Benzene	ND	0.5	ug/L	10/18/2000 11:47	
Toluene	ND	0.5	ug/L	10/18/2000 11:47	
Ethyl benzene	ND	0.5	ug/L	10/18/2000 11:47	
Xylene(s)	ND	0.5	ug/L	10/18/2000 11:47	
Surrogate(s)					
Trifluorotoluene	102.8	58-124	%	10/18/2000 11:47	
4-Bromofluorobenzene-FID	77.6	50-150	%	10/18/2000 11:47	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank | **Water** | **QC Batch # 2000/10/19-01.05**

MB: 2000/10/19-01.05-001

Date Extracted: 10/19/2000 08:38

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	10/19/2000 08:38	
Benzene	ND	0.5	ug/L	10/19/2000 08:38	
Toluene	ND	0.5	ug/L	10/19/2000 08:38	
Ethyl benzene	ND	0.5	ug/L	10/19/2000 08:38	
Xylene(s)	ND	0.5	ug/L	10/19/2000 08:38	
Surrogate(s)					
Trifluorotoluene	72.6	58-124	%	10/19/2000 08:38	
4-Bromofluorobenzene-FID	70.2	50-150	%	10/19/2000 08:38	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank | **Water** | **QC Batch # 2000/10/25-01.02**

MB: 2000/10/25-01.02-001

Date Extracted: 10/25/2000 04:34

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	10/25/2000 04:34	
Benzene	ND	0.5	ug/L	10/25/2000 04:34	
Toluene	ND	0.5	ug/L	10/25/2000 04:34	
Ethyl benzene	ND	0.5	ug/L	10/25/2000 04:34	
Xylene(s)	ND	0.5	ug/L	10/25/2000 04:34	
Surrogate(s)					
Trifluorotoluene	89.2	58-124	%	10/25/2000 04:34	
4-Bromofluorobenzene-FID	78.2	50-150	%	10/25/2000 04:34	

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/10/17-01.05**

LCS: 2000/10/17-01.05-002 Extracted: 10/17/2000 07:05 Analyzed 10/17/2000 07:05

LCSD: 2000/10/17-01.05-003 Extracted: 10/17/2000 07:38 Analyzed 10/17/2000 07:38

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	526	547	500	500	105.2	109.4	3.9	75-125	20		
Benzene	81.7	86.0	100.0	100.0	81.7	86.0	5.1	77-123	20		
Toluene	80.3	84.1	100.0	100.0	80.3	84.1	4.6	78-122	20		
Ethyl benzene	84.2	88.5	100.0	100.0	84.2	88.5	5.0	70-130	20		
Xylene(s)	239	252	300	300	79.7	84.0	5.3	75-125	20		
Surrogate(s)											
Trifluorotoluene	398	412	500	500	79.6	82.4		58-124			
4-Bromofluorobenzene-FI	434	420	500	500	86.8	84.0		50-150			

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/10/19-01.02**

LCS: 2000/10/19-01.02-002 Extracted: 10/19/2000 07:20 Analyzed 10/19/2000 07:20

LCSD: 2000/10/19-01.02-003 Extracted: 10/19/2000 17:51 Analyzed 10/19/2000 17:51

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	473	472	500	500	94.6	94.4	0.2	75-125	20		
Benzene	94.8	91.5	100.0	100.0	94.8	91.5	3.5	77-123	20		
Toluene	91.5	91.0	100.0	100.0	91.5	91.0	0.5	78-122	20		
Ethyl benzene	88.6	89.3	100.0	100.0	88.6	89.3	0.8	70-130	20		
Xylene(s)	253	256	300	300	84.3	85.3	1.2	75-125	20		
Surrogate(s)											
Trifluorotoluene	396	375	500	500	79.2	75.0		58-124			
4-Bromofluorobenzene-FI	434	450	500	500	86.8	90.0		50-150			

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/10/18-01.05**

LCS: 2000/10/18-01.05-002 Extracted: 10/18/2000 12:19 Analyzed 10/18/2000 12:19

LCSD: 2000/10/18-01.05-003 Extracted: 10/18/2000 12:52 Analyzed 10/18/2000 12:52

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	510	576	500	500	102.0	115.2	12.2	75-125	20		
Benzene	100	95.3	100.0	100.0	100.0	95.3	4.8	77-123	20		
Toluene	101	94.5	100.0	100.0	101.0	94.5	6.6	78-122	20		
Ethyl benzene	104	99.0	100.0	100.0	104.0	99.0	4.9	70-130	20		
Xylene(s)	286	276	300	300	95.3	92.0	3.5	75-125	20		
Surrogate(s)											
Trifluorotoluene	501	456	500	500	100.2	91.2		58-124			
4-Bromofluorobenzene-FI	429	440	500	500	85.8	88.0		50-150			

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/10/19-01.05**

LCS: 2000/10/19-01.05-002 Extracted: 10/19/2000 09:10 Analyzed 10/19/2000 09:10

LCSD: 2000/10/19-01.05-003 Extracted: 10/19/2000 16:00 Analyzed 10/19/2000 16:00

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	514	557	500	500	102.8	111.4	8.0	75-125	20		
Benzene	88.7	81.0	100.0	100.0	88.7	81.0	9.1	77-123	20		
Toluene	87.7	80.1	100.0	100.0	87.7	80.1	9.1	78-122	20		
Ethyl benzene	91.9	83.3	100.0	100.0	91.9	83.3	9.8	70-130	20		
Xylene(s)	257	235	300	300	85.7	78.3	9.0	75-125	20		
Surrogate(s)											
Trifluorotoluene	439	387	500	500	87.8	77.4		58-124			
4-Bromofluorobenzene-FI	388	423	500	500	77.6	84.6		50-150			

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/10/25-01.02**

LCS: 2000/10/25-01.02-002 Extracted: 10/25/2000 05:06 Analyzed 10/25/2000 05:06

LCSD: 2000/10/25-01.02-003 Extracted: 10/25/2000 05:37 Analyzed 10/25/2000 05:37

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	481	463	500	500	96.2	92.6	3.8	75-125	20		
Benzene	113	97.5	100.0	100.0	113.0	97.5	14.7	77-123	20		
Toluene	109	93.5	100.0	100.0	109.0	93.5	15.3	78-122	20		
Ethyl benzene	100	87.5	100.0	100.0	100.0	87.5	13.3	70-130	20		
Xylene(s)	288	258	300	300	96.0	86.0	11.0	75-125	20		
Surrogate(s)											
Trifluorotoluene	479	383	500	500	95.8	76.6		58-124			
4-Bromofluorobenzene-FI	440	435	500	500	88.0	87.0		50-150			

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Legend & Notes

Gas/BTEX

Analyte Flags

g

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

CHROMALAB, INC.
Environmental Services (SDB)

Submission #: 2000-10-0317

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 #: 014.07694
Project: Penske-Peroxide Monitoring

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	10/13/2000 14:30	1
MW-2	Water	10/13/2000 10:20	2
MW-4	Water	10/13/2000 13:00	3
MW-7	Water	10/13/2000 13:15	4
MW-8	Water	10/13/2000 12:50	5
OW-1	Water	10/13/2000 11:30	6
OW-2	Water	10/13/2000 10:50	7

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:	**2000-10-0317-001**
Project:	014.07694 Penske-Peroxide Monitoring	Received:	10/16/2000 18:15
		Extracted:	10/19/2000 12:34
Sampled:	10/13/2000 14:30	QC-Batch:	2000/10/19-06.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	97000	1000	ug/L	20.00	10/20/2000 18:56	ndp
Motor Oil	22000	10000	ug/L	20.00	10/20/2000 18:56	
Surrogate(s)						
o-Terphenyl	ND	60-130	%	20.00	10/20/2000 18:56	sd

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:	**2000-10-0317-002**
Project:	014.07694 Penske-Peroxide Monitoring	Received:	10/16/2000 18:15
		Extracted:	10/19/2000 12:34
Sampled:	10/13/2000 10:20	QC-Batch:	2000/10/19-06.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	88	50	ug/L	1.00	10/20/2000 20:40	ndp
Motor Oil	730	500	ug/L	1.00	10/20/2000 20:40	
Surrogate(s)						
o-Terphenyl	94.2	60-130	%	1.00	10/20/2000 20:40	

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:	**2000-10-0317-003**
Project:	014.07694 Penske-Peroxide Monitoring	Received:	10/16/2000 18:15
		Extracted:	10/19/2000 12:34
Sampled:	10/13/2000 13:00	QC-Batch:	2000/10/19-06.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	4800	50	ug/L	1.00	10/20/2000 21:15	ndp
Motor Oil	ND	500	ug/L	1.00	10/20/2000 21:15	
Surrogate(s)						
o-Terphenyl	142.5	60-130	%	1.00	10/20/2000 21:15	sh

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:	**2000-10-0317-004**
Project:	014.07694 Penske-Peroxide Monitoring	Received:	10/16/2000 18:15
		Extracted:	10/19/2000 12:34
Sampled:	10/13/2000 13:15	QC-Batch:	2000/10/19-06.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1400000	5000	ug/L	100.00	10/21/2000 18:56	ndp
Motor Oil	ND	50000	ug/L	100.00	10/21/2000 18:56	
Surrogate(s)						
o-Terphenyl	ND	60-130	%	100.00	10/21/2000 18:56	sd

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:	**2000-10-0317-005**
Project:	014.07694 Penske-Peroxide Monitoring	Received:	10/16/2000 18:15
		Extracted:	10/19/2000 12:34
Sampled:	10/13/2000 12:50	QC-Batch:	2000/10/19-06.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	990	50	ug/L	1.00	10/20/2000 21:49	ndp
Motor Oil	ND	500	ug/L	1.00	10/20/2000 21:49	
Surrogate(s)						
o-Terphenyl	128.3	60-130	%	1.00	10/20/2000 21:49	

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:	**2000-10-0317-006**
Project:	014.07694 Penske-Peroxide Monitoring	Received:	10/16/2000 18:15
		Extracted:	10/19/2000 12:34
Sampled:	10/13/2000 11:30	QC-Batch:	2000/10/19-06.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	21000	250	ug/L	5.00	10/21/2000 19:30	ndp
Motor Oil	ND	2500	ug/L	5.00	10/21/2000 19:30	
Surrogate(s)						
o-Terphenyl	130.0	60-130	%	5.00	10/21/2000 19:30	

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:	**2000-10-0317-007**
Project:	014.07694 Penske-Peroxide Monitoring	Received:	10/16/2000 18:15
		Extracted:	10/19/2000 12:34
Sampled:	10/13/2000 10:50	QC-Batch:	2000/10/19-06.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	3100	50	ug/L	1.00	10/21/2000 00:42	ndp
Motor Oil	590	500	ug/L	1.00	10/21/2000 00:42	
Surrogate(s)						
o-Terphenyl	122.7	60-130	%	1.00	10/21/2000 00:42	

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

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

Batch QC Report

TEPH w/ Silica Gel Clean-up

Method Blank **Water** **QC Batch # 2000/10/19-06.10**

MB: 2000/10/19-06.10-001 Date Extracted: 10/19/2000 12:34

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	10/21/2000 18:36	
Motor Oil	ND	500	ug/L	10/21/2000 18:36	
Surrogate(s)					
o-Terphenyl	121.0	60-130	%	10/21/2000 18:36	

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 # 2000/10/19-06.10**

LCS: 2000/10/19-06.10-002 Extracted: 10/19/2000 12:34 Analyzed 10/21/2000 22:26

LCSD: 2000/10/19-06.10-003 Extracted: 10/19/2000 12:34 Analyzed 10/21/2000 23:04

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	1100	854	1250	1250	88.0	68.3	25.2	60-130	25		
Surrogate(s)											
o-Terphenyl	24.5	21.7	20.0	20.0	122.5	108.5		60-130			

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

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

Legend & Notes

TEPH w/ Silica Gel Clean-up

Analyte Flags

ndp
: Hydrocarbon reported does not match the pattern of our Diesel standard

sd
: Surrogate diluted out due to the presence of non-target materials.

sh
: Surrogate recoveries were higher than QC limits due to matrix interference.

2000-10-0317

Chain-of Custody Number: 55150

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: Penske - Peroxide Monitoring
Location: 725 Julie Ann Way Oakland CA

Project # 014.07694 Task # 005
Project Manager Angus McBrath
Laboratory Chromalab
Turnaround Time Standard

Sampler's Name Dylan Cardiff
Sampler's Signature Dylan Cardiff

Sample ID	Date	Time	Matrix
MW-1	10/13	14:30	H_2O
MW-2		10:20	
MW-4		13:00	
MW-7		13:15	
MW-8		12:50	
OW-1		11:30	
OW-2		10:50	

Analysis Request

HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified) TEPH as motor oil & diesel w/ silica gel cleanup	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)	TCLP Metals			Comments/ Instructions	Number of Containers
	X	X													4
	X	X													4
	X	X													4
	X	X													4
	X	X													4
	X	X													4
	X	X													4

Special Instructions/Comments:

Relinquished by:
Sign Dylan Cardiff
Print Dylan Cardiff
Company Secor
Time 10:00 Date 10/16/00

Received by:
Sign
Print
Company
Time 2:10 Date 10/16/00

Relinquished by:
Sign
Print
Company
Time 1815 Date 10/16/00

Received by:
Sign
Print
Company
Time Date

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. 2/99

Date: 10/13/00 Page 1 of 1

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

Attn.: Angus McGrath

Project: 014.07701
Penske-4th Qtr Sampling

Attached is our report for your samples received on Tuesday December 12, 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 January 26, 2001 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

CHROMALAB, INC.
Environmental Services (SDB)

Submission #: 2000-12-0218

CAM 17 Metals

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: Penske-4th Qtr Sampling

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-8	Water	12/12/2000 11:30	6

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0218

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 7470A
6010B

Prep Method: 3010A
7470A

CAM 17 Metals

Sample ID:	**MW-8**	Lab Sample ID:	**2000-12-0218-006**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/14/2000 09:17
Sampled:	12/12/2000 11:30	QC-Batch:	2000/12/14-02.16 2000/12/14-03.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	0.0050	mg/L	1.00	12/18/2000 10:59	
Arsenic	0.0095	0.0050	mg/L	1.00	12/18/2000 10:59	
Barium	0.16	0.0050	mg/L	1.00	12/18/2000 10:59	
Beryllium	ND	0.0050	mg/L	1.00	12/18/2000 10:59	
Cadmium	ND	0.0020	mg/L	1.00	12/18/2000 10:59	
Chromium	ND	0.0050	mg/L	1.00	12/18/2000 10:59	
Cobalt	ND	0.0050	mg/L	1.00	12/18/2000 10:59	
Copper	0.015	0.0050	mg/L	1.00	12/18/2000 10:59	
Lead	ND	0.0050	mg/L	1.00	12/18/2000 10:59	
Molybdenum	0.015	0.0050	mg/L	1.00	12/18/2000 10:59	
Nickel	0.010	0.0050	mg/L	1.00	12/18/2000 10:59	
Selenium	ND	0.0050	mg/L	1.00	12/18/2000 10:59	
Silver	ND	0.0050	mg/L	1.00	12/18/2000 10:59	
Thallium	ND	0.0050	mg/L	1.00	12/18/2000 10:59	
Vanadium	0.0055	0.0050	mg/L	1.00	12/18/2000 10:59	
Zinc	ND	0.010	mg/L	1.00	12/18/2000 10:59	
Mercury	ND	0.00020	mg/L	1.00	12/14/2000 10:41	

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

Test Method: 7470A
Prep Method: 7470A

Batch QC Report
CAM 17 Metals

Method Blank | **Water** | **QC Batch # 2000/12/14-02.16**

MB: 2000/12/14-02.16-011

Date Extracted: 12/14/2000 09:27

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Mercury	ND	0.0002	mg/L	12/14/2000 10:24	

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

Test Method: 6010B
Prep Method: 3010A

Batch QC Report
CAM 17 Metals

Method Blank | **Water** | **QC Batch # 2000/12/14-03.15**

MB: 2000/12/14-03.15-011 | Date Extracted: 12/14/2000 09:17

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Antimony	ND	0.0050	mg/L	12/18/2000 09:30	
Arsenic	ND	0.0050	mg/L	12/18/2000 09:30	
Barium	ND	0.0050	mg/L	12/18/2000 09:30	
Beryllium	ND	0.0050	mg/L	12/18/2000 09:30	
Cadmium	ND	0.0020	mg/L	12/18/2000 09:30	
Chromium	ND	0.0050	mg/L	12/18/2000 09:30	
Cobalt	ND	0.0050	mg/L	12/18/2000 09:30	
Copper	ND	0.0050	mg/L	12/18/2000 09:30	
Lead	ND	0.0050	mg/L	12/18/2000 09:30	
Molybdenum	ND	0.0050	mg/L	12/18/2000 09:30	
Nickel	ND	0.0050	mg/L	12/18/2000 09:30	
Selenium	ND	0.0050	mg/L	12/18/2000 09:30	
Silver	ND	0.0050	mg/L	12/18/2000 09:30	
Thallium	ND	0.0050	mg/L	12/18/2000 09:30	
Vanadium	ND	0.0050	mg/L	12/18/2000 09:30	
Zinc	ND	0.010	mg/L	12/18/2000 09:30	

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

Test Method: 7470A
Prep Method: 7470A

Batch QC Report

CAM 17 Metals

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/12/14-02.16**

LCS: 2000/12/14-02.16-012 Extracted: 12/14/2000 09:27 Analyzed 12/14/2000 10:26
LCSD: 2000/12/14-02.16-013 Extracted: 12/14/2000 09:27 Analyzed 12/14/2000 10:27

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Mercury	0.0196	0.0190	0.0200	0.0200	98.0	95.0	3.1	85-115	20		

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 6010B

Prep Method: 3010A

Batch QC Report

CAM 17 Metals

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/12/14-03.15**

LCS: 2000/12/14-03.15-012 Extracted: 12/14/2000 09:17 Analyzed 12/18/2000 09:34

LCSD: 2000/12/14-03.15-013 Extracted: 12/14/2000 09:17 Analyzed 12/18/2000 09:39

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Antimony	0.531	0.522	0.500	0.500	106.2	104.4	1.7	80-120	20		
Arsenic	0.531	0.524	0.500	0.500	106.2	104.8	1.3	80-120	20		
Barium	0.494	0.486	0.500	0.500	98.8	97.2	1.6	80-120	20		
Beryllium	0.503	0.491	0.500	0.500	100.6	98.2	2.4	80-120	20		
Cadmium	0.496	0.488	0.500	0.500	99.2	97.6	1.6	80-120	20		
Chromium	0.500	0.492	0.500	0.500	100.0	98.4	1.6	80-120	20		
Cobalt	0.505	0.496	0.500	0.500	101.0	99.2	1.8	80-120	20		
Copper	0.520	0.509	0.500	0.500	104.0	101.8	2.1	80-120	20		
Lead	0.504	0.498	0.500	0.500	100.8	99.6	1.2	80-120	20		
Molybdenum	0.506	0.499	0.500	0.500	101.2	99.8	1.4	80-120	20		
Nickel	0.494	0.487	0.500	0.500	98.8	97.4	1.4	80-120	20		
Selenium	0.487	0.483	0.500	0.500	97.4	96.6	0.8	80-120	20		
Silver	0.500	0.492	0.500	0.500	100.0	98.4	1.6	80-120	20		
Thallium	0.497	0.489	0.500	0.500	99.4	97.8	1.6	80-120	20		
Vanadium	0.507	0.498	0.500	0.500	101.4	99.6	1.8	80-120	20		
Zinc	0.515	0.504	0.500	0.500	103.0	100.8	2.2	80-120	20		

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0218

Hexavalent Chromium

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: Penske-4th Qtr Sampling

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-8	Water	12/12/2000 11:30	6

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

Test Method: 7196A
Prep Method: 7196A water

Hexavalent Chromium

Sample ID:	**MW-8**	Lab Sample ID:	**2000-12-0218-006**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/12/2000 16:46
Sampled:	12/12/2000 11:30	QC-Batch:	2000/12/12-01.31
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chromium (Hexavalent)	ND	0.010	mg/L	1.00	12/12/2000 16:10	

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

Test Method: 7196A
Prep Method: 7196A water

Batch QC Report
Hexavalent Chromium

Method Blank | **Water** | **QC Batch # 2000/12/12-01.31**

MB: 2000/12/12-01.31-001 | Date Extracted: 12/12/2000

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Chromium (Hexavalent)	ND	0.01	mg/L	12/12/2000 16:10	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0218

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 7196A

Prep Method: 7196A water

Batch QC Report

Hexavalent Chromium

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/12/12-01.31**

LCS: 2000/12/12-01.31-002 Extracted: 12/12/2000 Analyzed 12/12/2000 16:10

LCSD: 2000/12/12-01.31-003 Extracted: 12/12/2000 Analyzed 12/12/2000 16:10

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Chromium (Hexavalent)	0.200	0.210	0.200	0.200	100.0	105.0	4.9	80-120	20		

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0218

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 7196A

Prep Method: 7196A water

Batch QC Report

Hexavalent Chromium

Matrix Spike (MS / MSD) **Water** **QC Batch # 2000/12/12-01.31**

Sample ID: **MW-8** Lab Sample ID: 2000-12-0218-006

MS: 2000/12/12-01.31-004 Extracted: 12/12/2000 Analyzed: 12/12/2000 16:10 Dilution: 1.0

MSD: 2000/12/12-01.31-005 Extracted: 12/12/2000 Analyzed: 12/12/2000 16:10 Dilution: 1.0

Compound	Conc. [mg/L]			Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Chromium (Hexavalent)	0.200	0.200	0.00	0.200	0.200	100.0	100.0	0.0	80-120	20		

Diesel with 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: Penske-4th Qtr Sampling

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	12/11/2000 14:50	1
MW-2	Water	12/11/2000 12:25	2
MW-4	Water	12/11/2000 13:15	3
MW-5	Water	12/11/2000 14:00	4
MW-7	Water	12/12/2000 10:30	5
MW-8	Water	12/12/2000 11:30	6
OW-1	Water	12/12/2000 10:45	7
OW-2	Water	12/12/2000 11:10	8

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

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

Diesel with Silica Gel Clean-up

Sample ID:	**MW-1**	Lab Sample ID:	**2000-12-0218-001**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/12/2000 15:45
Sampled:	12/11/2000 14:50	QC-Batch:	2000/12/12-05.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	28000	500	ug/L	10.00	12/14/2000 23:25	ndp
Surrogate(s)						
o-Terphenyl	NA	60-130	ug/L	10.00	12/14/2000 23:25	sd

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

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

Diesel with Silica Gel Clean-up

Sample ID:	**MW-2**	Lab Sample ID:	**2000-12-0218-002**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/12/2000 15:45
Sampled:	12/11/2000 12:25	QC-Batch:	2000/12/12-05.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	12/14/2000 01:14	
Surrogate(s)						
o-Terphenyl	80.1	60-130	%	1.00	12/14/2000 01:14	

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

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

Diesel with Silica Gel Clean-up

Sample ID:	**MW-4**	Lab Sample ID:	**2000-12-0218-003**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/12/2000 15:45
Sampled:	12/11/2000 13:15	QC-Batch:	2000/12/12-05.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	730	50	ug/L	1.00	12/14/2000 02:00	ndp
Surrogate(s)						
o-Terphenyl	111.8	60-130	%	1.00	12/14/2000 02:00	

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

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

Diesel with Silica Gel Clean-up

Sample ID:	**MW-5**	Lab Sample ID:	**2000-12-0218-004**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/12/2000 15:45
Sampled:	12/11/2000 14:00	QC-Batch:	2000/12/12-05.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	130	50	ug/L	1.00	12/14/2000 02:46	ndp
Surrogate(s)						
o-Terphenyl	85.1	60-130	%	1.00	12/14/2000 02:46	

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

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

Diesel with Silica Gel Clean-up

Sample ID:	**MW-7**	Lab Sample ID:	**2000-12-0218-005**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/12/2000 15:45
Sampled:	12/12/2000 10:30	QC-Batch:	2000/12/12-05.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	340000	10000	ug/L	200.00	12/15/2000 00:04	ndp
Surrogate(s)						
o-Terphenyl	NA	60-130	ug/L	200.00	12/15/2000 00:04	sd

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0218

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

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

Diesel with Silica Gel Clean-up

Sample ID:	**MW-8**	Lab Sample ID:	**2000-12-0218-006**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/12/2000 15:45
Sampled:	12/12/2000 11:30	QC-Batch:	2000/12/12-05.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	15000	100	ug/L	2.00	12/14/2000 07:46	ndp
Surrogate(s)						
o-Terphenyl	111.8	60-130	%	2.00	12/14/2000 07:46	

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

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

Diesel with Silica Gel Clean-up

Sample ID:	**OW-1**	Lab Sample ID:	**2000-12-0218-007**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/12/2000 15:45
Sampled:	12/12/2000 10:45	QC-Batch:	2000/12/12-05.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	230	50	ug/L	1.00	12/15/2000 00:44	ndp
Surrogate(s)						
o-Terphenyl	98.1	60-130	%	1.00	12/15/2000 00:44	

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

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

Diesel with Silica Gel Clean-up

Sample ID:	**OW-2**	Lab Sample ID:	**2000-12-0218-008**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/12/2000 15:45
Sampled:	12/12/2000 11:10	QC-Batch:	2000/12/12-05.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	320	50	ug/L	1.00	12/14/2000 05:52	ndp
Surrogate(s)						
o-Terphenyl	79.4	60-130	%	1.00	12/14/2000 05:52	

To: **SECOR-Oakland** Test Method: 8015M

Attn.: Angus McGrath Prep Method: 3510/8015M

Batch QC Report

Diesel with Silica Gel Clean-up

Method Blank **Water** **QC Batch # 2000/12/12-05.10**

MB: 2000/12/12-05.10-001 Date Extracted: 12/12/2000 15:45

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	12/13/2000 22:09	
Surrogate(s)					
o-Terphenyl	95.5	60-130	%	12/13/2000 22:09	

To: **SECOR-Oakland** Test Method: 8015M

Attn: Angus McGrath Prep Method: 3510/8015M

Batch QC Report

Diesel with Silica Gel Clean-up

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/12/12-05.10**

LCS: 2000/12/12-05.10-002 Extracted: 12/12/2000 15:45 Analyzed 12/13/2000 22:55

LCSD: 2000/12/12-05.10-003 Extracted: 12/12/2000 15:45 Analyzed 12/13/2000 23:41

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	1010	1010	1250	1250	80.8	80.8	0.0	60-130	25		
Surrogate(s)											
o-Terphenyl	22.5	22.4	20.0	20.0	112.5	112.0		60-130			

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

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

Legend & Notes

Diesel with Silica Gel Clean-up

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

sd

Surrogate recovery not reportable due to required dilution.

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0218

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: Penske-4th Qtr Sampling

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	12/11/2000 14:50	1
MW-2	Water	12/11/2000 12:25	2
MW-4	Water	12/11/2000 13:15	3
MW-5	Water	12/11/2000 14:00	4
MW-7	Water	12/12/2000 10:30	5
MW-8	Water	12/12/2000 11:30	6
OW-1	Water	12/12/2000 10:45	7
OW-2	Water	12/12/2000 11:10	8

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0218

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: **MW-1**

Project: 014.07701
Penske-4th Qtr Sampling

Sampled: 12/11/2000 14:50

Matrix: Water

Lab Sample ID: **2000-12-0218-001**

Received: 12/12/2000 14:25

Extracted: 12/13/2000 10:58

QC-Batch: 2000/12/13-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	2000	250	ug/L	5.00	12/13/2000 10:58	g
Benzene	10	2.5	ug/L	5.00	12/13/2000 10:58	
Toluene	ND	2.5	ug/L	5.00	12/13/2000 10:58	
Ethyl benzene	ND	2.5	ug/L	5.00	12/13/2000 10:58	
Xylene(s)	9.3	2.5	ug/L	5.00	12/13/2000 10:58	
MTBE	ND	25	ug/L	5.00	12/13/2000 10:58	
Surrogate(s)						
Trifluorotoluene	87.1	58-124	%	1.00	12/13/2000 10:58	
4-Bromofluorobenzene-FID	108.2	50-150	%	1.00	12/13/2000 10:58	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0218

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-2**	Lab Sample ID:	**2000-12-0218-002**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/13/2000 11:33
Sampled:	12/11/2000 12:25	QC-Batch:	2000/12/13-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/13/2000 11:33	
Benzene	ND	0.50	ug/L	1.00	12/13/2000 11:33	
Toluene	ND	0.50	ug/L	1.00	12/13/2000 11:33	
Ethyl benzene	ND	0.50	ug/L	1.00	12/13/2000 11:33	
Xylene(s)	ND	0.50	ug/L	1.00	12/13/2000 11:33	
MTBE	ND	5.0	ug/L	1.00	12/13/2000 11:33	
Surrogate(s)						
Trifluorotoluene	84.0	58-124	%	1.00	12/13/2000 11:33	
4-Bromofluorobenzene-FID	88.9	50-150	%	1.00	12/13/2000 11:33	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0218

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-4**	Lab Sample ID:	**2000-12-0218-003**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/13/2000 12:09
Sampled:	12/11/2000 13:15	QC-Batch:	2000/12/13-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	120	50	ug/L	1.00	12/13/2000 12:09	g
Benzene	ND	0.50	ug/L	1.00	12/13/2000 12:09	
Toluene	ND	0.50	ug/L	1.00	12/13/2000 12:09	
Ethyl benzene	ND	0.50	ug/L	1.00	12/13/2000 12:09	
Xylene(s)	ND	0.50	ug/L	1.00	12/13/2000 12:09	
MTBE	ND	5.0	ug/L	1.00	12/13/2000 12:09	
Surrogate(s)						
Trifluorotoluene	83.0	58-124	%	1.00	12/13/2000 12:09	
4-Bromofluorobenzene-FID	94.1	50-150	%	1.00	12/13/2000 12:09	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-5**	Lab Sample ID:	**2000-12-0218-004**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/13/2000 17:00
Sampled:	12/11/2000 14:00	QC-Batch:	2000/12/13-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/13/2000 17:00	
Benzene	ND	0.50	ug/L	1.00	12/13/2000 17:00	
Toluene	ND	0.50	ug/L	1.00	12/13/2000 17:00	
Ethyl benzene	ND	0.50	ug/L	1.00	12/13/2000 17:00	
Xylene(s)	ND	0.50	ug/L	1.00	12/13/2000 17:00	
MTBE	ND	5.0	ug/L	1.00	12/13/2000 17:00	
Surrogate(s)						
Trifluorotoluene	87.7	58-124	%	1.00	12/13/2000 17:00	
4-Bromofluorobenzene-FID	96.6	50-150	%	1.00	12/13/2000 17:00	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-7**	Lab Sample ID:	**2000-12-0218-005**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/13/2000 17:35
Sampled:	12/12/2000 10:30	QC-Batch:	2000/12/13-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	4500	250	ug/L	5.00	12/13/2000 17:35	g
Benzene	ND	2.5	ug/L	5.00	12/13/2000 17:35	
Toluene	ND	2.5	ug/L	5.00	12/13/2000 17:35	
Ethyl benzene	ND	2.5	ug/L	5.00	12/13/2000 17:35	
Xylene(s)	17	2.5	ug/L	5.00	12/13/2000 17:35	
MTBE	ND	25	ug/L	5.00	12/13/2000 17:35	
Surrogate(s)						
Trifluorotoluene	78.0	58-124	%	1.00	12/13/2000 17:35	
Trifluorotoluene-FID	84.0	58-124	%	1.00	12/13/2000 17:35	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0218

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-8**	Lab Sample ID:	**2000-12-0218-006**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/13/2000 18:11
Sampled:	12/12/2000 11:30	QC-Batch:	2000/12/13-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/13/2000 18:11	
Benzene	ND	0.50	ug/L	1.00	12/13/2000 18:11	
Toluene	ND	0.50	ug/L	1.00	12/13/2000 18:11	
Ethyl benzene	ND	0.50	ug/L	1.00	12/13/2000 18:11	
Xylene(s)	ND	0.50	ug/L	1.00	12/13/2000 18:11	
MTBE	ND	5.0	ug/L	1.00	12/13/2000 18:11	
Surrogate(s)						
Trifluorotoluene	77.9	58-124	%	1.00	12/13/2000 18:11	
4-Bromofluorobenzene-FID	87.2	50-150	%	1.00	12/13/2000 18:11	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0218

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**OW-1**	Lab Sample ID:	**2000-12-0218-007**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/13/2000 18:46
Sampled:	12/12/2000 10:45	QC-Batch:	2000/12/13-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	110	50	ug/L	1.00	12/13/2000 18:46	g
Benzene	3.4	0.50	ug/L	1.00	12/13/2000 18:46	
Toluene	ND	0.50	ug/L	1.00	12/13/2000 18:46	
Ethyl benzene	ND	0.50	ug/L	1.00	12/13/2000 18:46	
Xylene(s)	ND	0.50	ug/L	1.00	12/13/2000 18:46	
MTBE	ND	5.0	ug/L	1.00	12/13/2000 18:46	
Surrogate(s)						
Trifluorotoluene	87.2	58-124	%	1.00	12/13/2000 18:46	
4-Bromofluorobenzene-FID	91.5	50-150	%	1.00	12/13/2000 18:46	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0218

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**OW-2**	Lab Sample ID:	**2000-12-0218-008**
Project:	014.07701 Penske-4th Qtr Sampling	Received:	12/12/2000 14:25
		Extracted:	12/13/2000 19:22
Sampled:	12/12/2000 11:10	QC-Batch:	2000/12/13-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	210	50	ug/L	1.00	12/13/2000 19:22	
Benzene	6.6	0.50	ug/L	1.00	12/13/2000 19:22	
Toluene	ND	0.50	ug/L	1.00	12/13/2000 19:22	
Ethyl benzene	ND	0.50	ug/L	1.00	12/13/2000 19:22	
Xylene(s)	ND	0.50	ug/L	1.00	12/13/2000 19:22	
MTBE	7.4	5.0	ug/L	1.00	12/13/2000 19:22	
Surrogate(s)						
Trifluorotoluene	95.4	58-124	%	1.00	12/13/2000 19:22	
4-Bromofluorobenzene-FID	94.4	50-150	%	1.00	12/13/2000 19:22	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank | **Water** | **QC Batch # 2000/12/13-01.02**

MB: 2000/12/13-01.02-001

Date Extracted: 12/13/2000 09:42

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	12/13/2000 09:42	
Benzene	ND	0.5	ug/L	12/13/2000 09:42	
Toluene	ND	0.5	ug/L	12/13/2000 09:42	
Ethyl benzene	ND	0.5	ug/L	12/13/2000 09:42	
Xylene(s)	ND	0.5	ug/L	12/13/2000 09:42	
MTBE	ND	5.0	ug/L	12/13/2000 09:42	
Surrogate(s)					
Trifluorotoluene	90.8	58-124	%	12/13/2000 09:42	
4-Bromofluorobenzene-FID	85.2	50-150	%	12/13/2000 09:42	

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/12/13-01.02**

LCS: 2000/12/13-01.02-002 Extracted: 12/13/2000 07:18 Analyzed 12/13/2000 07:18

LCSD: 2000/12/13-01.02-003 Extracted: 12/13/2000 07:54 Analyzed 12/13/2000 07:54

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	462	444	500	500	92.4	88.8	4.0	75-125	20		
Benzene	103	100	100.0	100.0	103.0	100.0	3.0	77-123	20		
Toluene	99.8	98.0	100.0	100.0	99.8	98.0	1.8	78-122	20		
Ethyl benzene	90.3	88.6	100.0	100.0	90.3	88.6	1.9	70-130	20		
Xylene(s)	258	257	300	300	86.0	85.7	0.3	75-125	20		
Surrogate(s)											
Trifluorotoluene	447	434	500	500	89.4	86.8		58-124			
4-Bromofluorobenzene-FI	485	474	500	500	97.0	94.8		50-150			

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Matrix Spike (MS / MSD) **Water** **QC Batch # 2000/12/13-01.02**

Sample ID: **MW-8** Lab Sample ID: 2000-12-0218-006

MS: 2000/12/13-01.02-004 Extracted: 12/13/2000 19:57 Analyzed: 12/13/2000 19:57 Dilution: 1.0

MSD: 2000/12/13-01.02-005 Extracted: 12/13/2000 20:33 Analyzed: 12/13/2000 20:33 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	395	427	ND	500	500	79.0	85.4	7.8	65-135	20		
Benzene	104	104	ND	100.0	100.0	104.0	104.0	0.0	65-135	20		
Toluene	101	102	ND	100.0	100.0	101.0	102.0	1.0	65-135	20		
Ethyl benzene	90.4	90.9	ND	100.0	100.0	90.4	90.9	0.6	65-135	20		
Xylene(s)	262	265	ND	300	300	87.3	88.3	1.1	65-135	20		
Surrogate(s)												
Trifluorotoluene	447	437		500	500	89.4	87.4		58-124			
4-Bromofluorobenzene-F	420	455		500	500	84.0	91.0		50-150			

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Legend & Notes

Gas/BTEX and MTBE

Analyte Flags

g

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

GeoAnalytical Laboratories, Inc.

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

CERTIFICATE OF ANALYSIS

Report # L348-33 **Date:** 12/19/00

Chromalab
1220 Quarry Lane
Pleasanton CA 94566-4756

Project: 2000-12-0218

PO#

Date Rec'd: 12/13/00
Date Started: 12/13/00
Date Completed: 12/13/00

Date Sampled: 12/12/00
Time:
Sampler:

Sample ID	Lab ID	RL	Method	Analyte	Results	Units
OW-1	L312477	1.0	300.0	Nitrate (NO3)	2.9	mg/L
		1.0	300.0	Sulfate	155	mg/L
OW-2	L312478	1.0	300.0	Nitrate (NO3)	76	mg/L
		1.0	300.0	Sulfate	123	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# L348-33

QC REPORT

Chromalab
1220 Quarry Lane
Pleasanton CA 94566-4756

Dates Analyzed 12/13/00

Analyte	Batch #	Method	% Recovery	Duplicate %	RPD	Blank
Nitrate (NO3)	I12669	300.0	97.3	112.1	14.2	ND
Sulfate	I12670	300.0	111.5	111.5	0.0	ND

Ramiro Salgado
Chemist

Certification # 1157

Donna Keller
Laboratory Director

Chain of Custody 2000-12-0218-1

Date Shipped: 12/13/2000

L348-33

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 #: **2000-12-0218**
CL PO #:

Project #: 014.07701
Project Name: Penske-4th Qtr Sampling

Client Sample ID / Analysis		CL#	Sampled	Matrix / Method	Due
OW-1	(1)	007	12/12/2000 10:45	Water	L312477
Subcontract - Nitrate	500mL P			300/352.1	**12/19/2000 17:00**
Subcontract - Sulfate				300/375.4	**12/19/2000 17:00**
OW-2	(1)	008	12/12/2000 11:10	Water	L312478
Subcontract - Nitrate				300/352.1	**12/19/2000 17:00**
Subcontract - Sulfate				300/375.4	**12/19/2000 17:00**

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature Time: 12/13/00	Signature Time	Signature Time
Printed Name Date	Printed Name Date	Printed Name Date
Company	Company	Company
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature Time: 4:30	Signature Time	Signature Time
Printed Name Date: 12/13/00	Printed Name Date	Printed Name Date
Company: Geo Analytical	Company	Company

2000-12-0218 Chain-of Custody Number: 56337

SECOR Chain-of Custody Record

Field Office: 005 - Oakland
Address: 360 2nd St Suite
Oakland CA 94612

☐ Additional documents are attached, and are a part of this Record.
Job Name: Penske - 4th Qtr Sampling
Location: 725 Julie Ann Way

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

Sampler's Name Dylan Cardiff
Sampler's Signature Dylan Cardiff

Sample ID	Date	Time	Matrix
MW-1	12/11	14:50	H2O
MW-2	12/11	12:25	
MW-4	12/11	13:15	
MW-5	12/11	14:00	
MW-7	12/12	10:30	
MW-8	12/12	11:30	
OW-1	12/12	10:45	
OW-2	12/12	11:10	↓

Analysis Request

HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020 + MTBE	TPHd/WTPH-D with silica gel cleanup 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 (CAM17)	Title 22 Metals Cr 6+	Nitrate Sulfate		Comments/ Instructions	Number of Containers
	X	X													4
	X	X													4
	X	X													4
	X	X													4
	X	X													4
	X	X								X	X				6
	X	X										X			5
	X	X										X			5

Special Instructions/Comments:

Relinquished by:
Sign Dylan Cardiff
Print Dylan Cardiff
Company SECOR
Time 12:10 Date 12/12/00

Received by: Afsaneh Salimpour
Sign Afsaneh Salimpour
Print Afsaneh Salimpour
Company Chromalab
Time 12:10 Date 12/12/00

Relinquished by: Afsaneh Salimpour
Sign Afsaneh Salimpour
Print Afsaneh Salimpour
Company Chromalab
Time 1:30 Date 12/12/00

Received by:
Sign Chris Rowley
Print C. ROWLEY
Company CHROMALAB
Time 1425 Date 12/12/00

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. 2/99

Date: 12/12/00 Page 1 of 1

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

Attn.: Angus McGrath

Project: 014.07701
Penske 1st Quarterly

Attached is our report for your samples received on Wednesday March 14, 2001
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 April 28, 2001 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

Diesel with Silica Gel Clean-up

SECOR-Oakland

Attn: Angus McGrath

Project #: 014.07701

360 22nd Street, Suite 600
Oakland, CA 94612

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

Project: Penske 1st Quarterly

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-7	Water	03/14/2001 13:30	1
MW-1	Water	03/14/2001 14:30	2
MW-8	Water	03/14/2001 14:01	3
MW-2	Water	03/14/2001 13:00	4
MW-4	Water	03/14/2001 12:45	5

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

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

Diesel with Silica Gel Clean-up

Sample ID:	**MW-7**	Lab Sample ID:	**2001-03-0279-001**
Project:	014.07701 Penske 1st Quarterly	Received:	03/14/2001 17:17
		Extracted:	03/15/2001 12:11
Sampled:	03/14/2001 13:30	QC-Batch:	2001/03/15-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	170000	2500	ug/L	50.00	03/16/2001 17:10	ndp
Surrogate(s)						
o-Terphenyl	NA	60-130	%	50.00	03/16/2001 17:10	sd

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

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

Diesel with Silica Gel Clean-up

Sample ID:	**MW-1**	Lab Sample ID:	**2001-03-0279-002**
Project:	014.07701 Penske 1st Quarterly	Received:	03/14/2001 17:17
		Extracted:	03/15/2001 12:11
Sampled:	03/14/2001 14:30	QC-Batch:	2001/03/15-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	8400	50	ug/L	1.00	03/16/2001 14:35	ndp
Surrogate(s)						
o-Terphenyl	118.8	60-130	%	1.00	03/16/2001 14:35	

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

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

Diesel with Silica Gel Clean-up

Sample ID:	**MW-8**	Lab Sample ID:	**2001-03-0279-003**
Project:	014.07701 Penske 1st Quarterly	Received:	03/14/2001 17:17
		Extracted:	03/15/2001 12:11
Sampled:	03/14/2001 14:01	QC-Batch:	2001/03/15-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	130	50	ug/L	1.00	03/16/2001 23:33	ndp
Surrogate(s)						
o-Terphenyl	102.7	60-130	%	1.00	03/16/2001 23:33	

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

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

Diesel with Silica Gel Clean-up

Sample ID:	**MW-2**	Lab Sample ID:	**2001-03-0279-004**
Project:	014.07701 Penske 1st Quarterly	Received:	03/14/2001 17:17
		Extracted:	03/15/2001 12:11
Sampled:	03/14/2001 13:00	QC-Batch:	2001/03/15-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	75	50	ug/L	1.00	03/16/2001 15:52	ldr
Surrogate(s)						
o-Terphenyl	94.8	60-130	%	1.00	03/16/2001 15:52	

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

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

Diesel with Silica Gel Clean-up

Sample ID:	**MW-4**	Lab Sample ID:	**2001-03-0279-005**
Project:	014.07701 Penske 1st Quarterly	Received:	03/14/2001 17:17
		Extracted:	03/15/2001 12:11
Sampled:	03/14/2001 12:45	QC-Batch:	2001/03/15-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	580	50	ug/L	1.00	03/16/2001 16:30	ndp
Surrogate(s)						
o-Terphenyl	126.8	60-130	%	1.00	03/16/2001 16:30	

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

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

Batch QC Report
Diesel with Silica Gel Clean-up

Method Blank **Water** **QC Batch # 2001/03/15-02.10**

MB: 2001/03/15-02.10-001 Date Extracted: 03/15/2001 12:11

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	03/16/2001 12:00	
Surrogate(s)					
o-Terphenyl	100.5	60-130	%	03/16/2001 12:00	

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

Batch QC Report

Diesel with Silica Gel Clean-up

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/03/15-02.10**

LCS: 2001/03/15-02.10-002 Extracted: 03/15/2001 12:11 Analyzed 03/16/2001 12:39
LCSD: 2001/03/15-02.10-003 Extracted: 03/15/2001 12:11 Analyzed 03/16/2001 13:18

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	999	1080	1250	1250	79.9	86.4	7.8	60-130	25		
Surrogate(s)											
o-Terphenyl	20.2	21.4	20.0	20.0	101.0	107.0		60-130			

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

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

Legend & Notes

Diesel with Silica Gel Clean-up

Analyte Flags

ldr

Hydrocarbon reported is in the late Diesel range, and does not match our Diesel standard

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

sd

Surrogate recovery not reportable due to required dilution.

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: Penske 1st Quarterly

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-7	Water	03/14/2001 13:30	1
MW-1	Water	03/14/2001 14:30	2
MW-8	Water	03/14/2001 14:01	3
MW-2	Water	03/14/2001 13:00	4
MW-4	Water	03/14/2001 12:45	5

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-7**	Lab Sample ID:	**2001-03-0279-001**
Project:	014.07701 Penske 1st Quarterly	Received:	03/14/2001 17:17
		Extracted:	03/15/2001 17:19
Sampled:	03/14/2001 13:30	QC-Batch:	2001/03/15-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	8000	250	ug/L	5.00	03/15/2001 17:19	g
Benzene	ND	2.5	ug/L	5.00	03/15/2001 17:19	
Toluene	ND	2.5	ug/L	5.00	03/15/2001 17:19	
Ethyl benzene	ND	2.5	ug/L	5.00	03/15/2001 17:19	
Xylene(s)	ND	2.5	ug/L	5.00	03/15/2001 17:19	
MTBE	ND	25	ug/L	5.00	03/15/2001 17:19	
Surrogate(s)						
Trifluorotoluene	91.9	58-124	%	1.00	03/15/2001 17:19	
4-Bromofluorobenzene-FID	90.7	50-150	%	1.00	03/15/2001 17:19	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-1**	Lab Sample ID:	**2001-03-0279-002**
Project:	014.07701 Penske 1st Quarterly	Received:	03/14/2001 17:17
		Extracted:	03/16/2001 14:02
Sampled:	03/14/2001 14:30	QC-Batch:	2001/03/16-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	350	250	ug/L	5.00	03/16/2001 14:02	g
Benzene	12	2.5	ug/L	5.00	03/16/2001 14:02	
Toluene	ND	2.5	ug/L	5.00	03/16/2001 14:02	
Ethyl benzene	ND	2.5	ug/L	5.00	03/16/2001 14:02	
Xylene(s)	ND	2.5	ug/L	5.00	03/16/2001 14:02	
MTBE	ND	25	ug/L	5.00	03/16/2001 14:02	
Surrogate(s)						
Trifluorotoluene	90.6	58-124	%	5.00	03/16/2001 14:02	
4-Bromofluorobenzene-FID	74.4	50-150	%	5.00	03/16/2001 14:02	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-8**	Lab Sample ID:	**2001-03-0279-003**
Project:	014.07701 Penske 1st Quarterly	Received:	03/14/2001 17:17
		Extracted:	03/16/2001 13:29
Sampled:	03/14/2001 14:01	QC-Batch:	2001/03/16-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	03/16/2001 13:29	
Benzene	ND	0.50	ug/L	1.00	03/16/2001 13:29	
Toluene	ND	0.50	ug/L	1.00	03/16/2001 13:29	
Ethyl benzene	ND	0.50	ug/L	1.00	03/16/2001 13:29	
Xylene(s)	ND	0.50	ug/L	1.00	03/16/2001 13:29	
MTBE	ND	5.0	ug/L	1.00	03/16/2001 13:29	
Surrogate(s)						
Trifluorotoluene	69.6	58-124	%	1.00	03/16/2001 13:29	
4-Bromofluorobenzene-FID	66.6	50-150	%	1.00	03/16/2001 13:29	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-2**	Lab Sample ID:	**2001-03-0279-004**
Project:	014.07701 Penske 1st Quarterly	Received:	03/14/2001 17:17
		Extracted:	03/16/2001 15:49
Sampled:	03/14/2001 13:00	QC-Batch:	2001/03/16-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	03/16/2001 15:49	
Benzene	ND	0.50	ug/L	1.00	03/16/2001 15:49	
Toluene	ND	0.50	ug/L	1.00	03/16/2001 15:49	
Ethyl benzene	ND	0.50	ug/L	1.00	03/16/2001 15:49	
Xylene(s)	ND	0.50	ug/L	1.00	03/16/2001 15:49	
MTBE	ND	5.0	ug/L	1.00	03/16/2001 15:49	
Surrogate(s)						
Trifluorotoluene	95.7	58-124	%	1.00	03/16/2001 15:49	
4-Bromofluorobenzene-FID	85.3	50-150	%	1.00	03/16/2001 15:49	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-4**	Lab Sample ID:	**2001-03-0279-005**
Project:	014.07701 Penske 1st Quarterly	Received:	03/14/2001 17:17
		Extracted:	03/19/2001 13:47
Sampled:	03/14/2001 12:45	QC-Batch:	2001/03/19-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	03/19/2001 13:47	
Benzene	ND	0.50	ug/L	1.00	03/19/2001 13:47	
Toluene	ND	0.50	ug/L	1.00	03/19/2001 13:47	
Ethyl benzene	ND	0.50	ug/L	1.00	03/19/2001 13:47	
Xylene(s)	ND	0.50	ug/L	1.00	03/19/2001 13:47	
MTBE	ND	5.0	ug/L	1.00	03/19/2001 13:47	
Surrogate(s)						
Trifluorotoluene	120.1	58-124	%	1.00	03/19/2001 13:47	
4-Bromofluorobenzene-FID	92.9	50-150	%	1.00	03/19/2001 13:47	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank **Water** **QC Batch # 2001/03/15-01.01**

MB: 2001/03/15-01.01-003 Date Extracted: 03/15/2001 08:03

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	03/15/2001 08:03	
Benzene	ND	0.5	ug/L	03/15/2001 08:03	
Toluene	ND	0.5	ug/L	03/15/2001 08:03	
Ethyl benzene	ND	0.5	ug/L	03/15/2001 08:03	
Xylene(s)	ND	0.5	ug/L	03/15/2001 08:03	
MTBE	ND	5.0	ug/L	03/15/2001 08:03	
Surrogate(s)					
Trifluorotoluene	91.3	58-124	%	03/15/2001 08:03	
4-Bromofluorobenzene-FID	82.9	50-150	%	03/15/2001 08:03	

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

Test Method: 8015M
8020
Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank **Water** **QC Batch # 2001/03/16-01.01**

MB: 2001/03/16-01.01-001 Date Extracted: 03/16/2001 09:07

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	03/16/2001 09:07	
Benzene	ND	0.5	ug/L	03/16/2001 09:07	
Toluene	ND	0.5	ug/L	03/16/2001 09:07	
Ethyl benzene	ND	0.5	ug/L	03/16/2001 09:07	
Xylene(s)	ND	0.5	ug/L	03/16/2001 09:07	
MTBE	ND	5.0	ug/L	03/16/2001 09:07	
Surrogate(s)					
Trifluorotoluene	91.4	58-124	%	03/16/2001 09:07	
4-Bromofluorobenzene-FID	85.0	50-150	%	03/16/2001 09:07	

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

Test Method: 8015M
8020
Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank **Water** **QC Batch # 2001/03/19-01.02**

MB: 2001/03/19-01.02-001 Date Extracted: 03/19/2001 08:46

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	03/19/2001 08:46	
Benzene	ND	0.5	ug/L	03/19/2001 08:46	
Toluene	ND	0.5	ug/L	03/19/2001 08:46	
Ethyl benzene	ND	0.5	ug/L	03/19/2001 08:46	
Xylene(s)	ND	0.5	ug/L	03/19/2001 08:46	
MTBE	ND	5.0	ug/L	03/19/2001 08:46	
Surrogate(s)					
4-Bromofluorobenzene	129.8	50-150	%	03/19/2001 08:46	
4-Bromofluorobenzene-FID	89.6	50-150	%	03/19/2001 08:46	

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

Test Method: 8020
Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/03/15-01.01**

LCS: 2001/03/15-01.01-004 Extracted: 03/15/2001 08:36 Analyzed 03/15/2001 08:36
LCSD: 2001/03/15-01.01-005 Extracted: 03/15/2001 09:09 Analyzed 03/15/2001 09:09

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	97.5	93.6	100.0	100.0	97.5	93.6	4.1	77-123	20		
Toluene	96.7	91.7	100.0	100.0	96.7	91.7	5.3	78-122	20		
Ethyl benzene	101	98.4	100.0	100.0	101.0	98.4	2.6	70-130	20		
Xylene(s)	300	275	300	300	100.0	91.7	8.7	75-125	20		
Surrogate(s)											
Trifluorotoluene	501	481	500	500	100.2	96.2		58-124			

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/03/15-01.01**

LCS: 2001/03/15-01.01-006 Extracted: 03/15/2001 09:42 Analyzed 03/15/2001 09:42

LCSD: 2001/03/15-01.01-007 Extracted: 03/15/2001 10:14 Analyzed 03/15/2001 10:14

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	470	476	500	500	94.0	95.2	1.3	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene-FI	324	345	500	500	64.8	69.0		50-150			

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/03/16-01.01**

LCS: 2001/03/16-01.01-002 Extracted: 03/16/2001 09:40 Analyzed 03/16/2001 09:40

LCSD: 2001/03/16-01.01-003 Extracted: 03/16/2001 10:12 Analyzed 03/16/2001 10:12

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	464	453	500	500	92.8	90.6	2.4	75-125	20		
Benzene	102	93.8	100.0	100.0	102.0	93.8	8.4	77-123	20		
Toluene	99.5	92.7	100.0	100.0	99.5	92.7	7.1	78-122	20		
Ethyl benzene	96.7	87.2	100.0	100.0	96.7	87.2	10.3	70-130	20		
Xylene(s)	290	270	300	300	96.7	90.0	7.2	75-125	20		
Surrogate(s)											
Trifluorotoluene	527	485	500	500	105.4	97.0		58-124			
4-Bromofluorobenzene-FI	309	342	500	500	61.8	68.4		50-150			

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/03/19-01.02**

LCS: 2001/03/19-01.02-002 Extracted: 03/19/2001 09:58 Analyzed 03/19/2001 09:58

LCSD: 2001/03/19-01.02-003 Extracted: 03/19/2001 09:22 Analyzed 03/19/2001 09:22

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	447	499	500	500	89.4	99.8	11.0	75-125	20		
Benzene	117	120	100.0	100.0	117.0	120.0	2.5	77-123	20		
Toluene	120	121	100.0	100.0	120.0	121.0	0.8	78-122	20		
Ethyl benzene	118	119	100.0	100.0	118.0	119.0	0.8	70-130	20		
Xylene(s)	343	343	300	300	114.3	114.3	0.0	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene	599	600	500	500	119.8	120.0		50-150			
4-Bromofluorobenzene-FI	462	471	500	500	92.4	94.2		50-150			

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Legend & Notes

Gas/BTEX and MTBE

Analyte Flags

g

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

Reference #: 30090

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • FAX (925) 484-1096

2001-03-0279

Chain of Custody

DATE 3/14/01 PAGE 1 OF 2

PROJ. MGR Angus McGrath
COMPANY SECOR
ADDRESS 360 22nd St, Suite 600
Oakland, CA

SAMPLERS (SIGNATURE) Tony Perini
510-285-2556 (PHONE NO.)
510-285-2568 (FAX NO.)

ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH-IEPA 8015,8020) ☒ Gas w/ ☒ BTEX ☒MTBE	PURGEABLE AROMATICS BTEX (EPA 8020)	TPH-Diesel (EPA 8015M) with silica gel cleanup	TEPH (EPA 8015M) ☐ Diesel ☐ M.O. ☐ Other	PURGEABLE HALOCARBONS (HVOCs) (EPA 8010)	VOLATILE ORGANICS (VOCs) (EPA 8260)	SEMIVOLATILES (EPA 8270)	Oil & Grease ☐ Petrol ☐ Total ☐ 1664		☐ PESTICIDES(EPA 8080) ☐ PCB'S (EPA 8080)	PNA's by ☐ 8270 ☐ 8310	☐ Spec. Cond. ☐ TSS ☐ TDS	LUFT METALS: Cd, Cr, Pb, Ni, Zn	CAM 17 METALS (EPA 6010/7470/7471)	TOTAL LEAD	☐ W.E.T. (STLC) ☐ TCLP	☐ Hexavalent Chromium ☐ pH (24 hr hold time for H20)				NUMBER OF CONTAINERS
MW-7	3/14/01	1330	1-Liter	none			X																		
MW-7	3/14/01	1330	3-VOAs	HCl	X																				
MW-1	3/14/01	1430	1-Liter	none			X																		
MW-1	3/14/01	1430	3-VOAs	HCl	X																				
MW-8	3/14/01	1401	1-Liter	none			X																		
MW-8	3/14/01	1401	3-VOAs	HCl	X																				
MW-2	3/14/01	1300	1-Liter	none			X																		
MW-2	3/14/01	1300	3-VOAs	HCl	X																				
MW-4	3/14/01	1245	1-Liter	none			X																		

PROJECT INFORMATION

PROJECT NAME: PENSKE 1st Quarter 2001
PROJECT NUMBER 014.07701
P.O. #

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS
HEAD SPACE
TEMPERATURE
CONFORMS TO RECORD

TAT: STANDARD 5-DAY | 24 | 48 | 72 | OTHER

SPECIAL INSTRUCTIONS/COMMENTS:
Report: ☐ Routine ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ Electronic Report

<4 Hrs

RELINQUISHED BY 1.	RELINQUISHED BY 2.	RELINQUISHED BY
Tony Perini (SIGNATURE)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
Tony Perini (PRINTED NAME) 1740 (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
SECOR (COMPANY)	(COMPANY)	(COMPANY)
RECEIVED BY 1.	**RECEIVED BY 2.**	**RECEIVED BY (LABORATORY)**
(SIGNATURE) (TIME)	(SIGNATURE) (TIME)	A McCallum 17:1 (SIGNATURE) (TIME)
(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	A McCallum 03.14.0 (PRINTED NAME) (DAT
(COMPANY)	(COMPANY)	CL (LAB)

Reference #: 38090

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Fax (925) 484-1096

2001-03-0279

Chain of Custody

DATE 3/14/01 PAGE 2 of 2

PROJ. MGR. Angus McGrath
COMPANY SECOR
ADDRESS 360 22nd St, Suite 600
Oakland, CA

SAMPLERS (SIGNATURE) Tony Perini
570-285-2572 (PHONE NO.)
570-285-2568 (FAX NO.)

ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH-(EPA 8015,8020) ☒ Gas w/ ☒ BTEX ☐MTBE	PURGEABLE AROMATICS BTEX (EPA 8020)	TPH-Diesel (EPA 8015M)	TPH (EPA 8015M) ☐ Diesel ☐ M.O. ☐ Other	PURGEABLE HALOCARBONS (HVOCs) (EPA 8010)	VOLATILE ORGANICS (VOCs) (EPA 8260)	SEMIVOLATILES (EPA 8270)	Oil & Grease ☐ Petrol ☐ Total ☐ 1664		☐ PESTICIDES (EPA 8080) ☐ PCB'S (EPA 8080)	PNA's by ☐ 8270 ☐ 8310	☐ Spec. Cond. ☐ TSS ☐ TDS	LUFT METALS: Cd, Cr, Pb, Ni, Zn	CAM 17 METALS (EPA 6010/7470/7471)	TOTAL LEAD	☐ W.E.T. (STLC) ☐ TCLP	☐ Hexavalent Chromium ☐ pH (24 hr hold time for H20)				NUMBER OF CONTAINERS
MW-4	3/14/01	1245	3-VOAs	~~Acid~~ HCl	X																				3

PROJECT INFORMATION

PROJECT NAME: PENSKE 1ST Q 2001
PROJECT NUMBER: 014.07701
P.O. #:

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	
HEAD SPACE	
TEMPERATURE	
CONFORMS TO RECORD	

TAT: STANDARD 5-DAY | | | 24 | 48 | 72 | OTHER

SPECIAL INSTRUCTIONS/COMMENTS:
Report: ☐ Routine ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ Electronic Report

RELINQUISHED BY 1.	RELINQUISHED BY 2.	RELINQUISHED BY 3.
(SIGNATURE) Tony Perini (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
(PRINTED NAME) TONY PERINI (DATE) 1710	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
(COMPANY) SECOR	(COMPANY)	(COMPANY)
RECEIVED BY 1.	**RECEIVED BY 2.**	**RECEIVED BY (LABORATORY) 3**
(SIGNATURE) (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) SA McCallum 17:17 (TIME)
(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) SA McCallum 03.14.01 (DATE)
(COMPANY)	(COMPANY)	(LAB) CL

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

Attn.: Angus McGrath

Project: 014.07701
Penske 1st Qtr 2001 Monitoring

Attached is our report for your samples received on Wednesday March 14, 2001
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 April 28, 2001 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

Diesel with 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: Penske 1st Qtr 2001 Monitoring

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
OW-1	Water	03/14/2001 10:00	1
OW-2	Water	03/14/2001 10:00	2

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

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

Diesel with Silica Gel Clean-up

Sample ID:	**OW-1**	Lab Sample ID:	**2001-03-0289-001**
Project:	014.07701 Penske 1st Qtr 2001 Monitoring	Received:	03/14/2001 15:46
		Extracted:	03/16/2001 08:44
Sampled:	03/14/2001 10:00	QC-Batch:	2001/03/16-01.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	2200	50	ug/L	1.00	03/19/2001 12:02	ndp
Surrogate(s)						
o-Terphenyl	92.6	60-130	%	1.00	03/19/2001 12:02	

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

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

Diesel with Silica Gel Clean-up

Sample ID:	**OW-2**	Lab Sample ID:	**2001-03-0289-002**
Project:	014.07701 Penske 1st Qtr 2001 Monitoring	Received:	03/14/2001 15:46
		Extracted:	03/16/2001 08:44
Sampled:	03/14/2001 10:00	QC-Batch:	2001/03/16-01.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	960	50	ug/L	1.00	03/19/2001 12:42	ndp
Surrogate(s)						
o-Terphenyl	92.3	60-130	%	1.00	03/19/2001 12:42	

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

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

Batch QC Report
Diesel with Silica Gel Clean-up

Method Blank | **Water** | **QC Batch # 2001/03/16-01.10**

MB: 2001/03/16-01.10-003 | Date Extracted: 03/16/2001 08:44

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	03/20/2001 09:18	
Surrogate(s)					
o-Terphenyl	100.0	60-130	%	03/20/2001 09:18	

To: **SECOR-Oakland** Test Method: 8015M

Attn: Angus McGrath Prep Method: 3510/8015M

Batch QC Report

Diesel with Silica Gel Clean-up

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/03/16-01.10**

LCS: 2001/03/16-01.10-001 Extracted: 03/16/2001 08:44 Analyzed 03/20/2001 07:59

LCSD: 2001/03/16-01.10-002 Extracted: 03/16/2001 08:44 Analyzed 03/20/2001 08:38

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	1050	1080	1250	1250	84.0	86.4	2.8	60-130	25		
Surrogate(s)											
o-Terphenyl	25.2	24.5	20.0	20.0	126.0	122.5		60-130			

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

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

Legend & Notes

Diesel with Silica Gel Clean-up

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-03-0289

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: Penske 1st Qtr 2001 Monitoring

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
OW-1	Water	03/14/2001 10:00	1
OW-2	Water	03/14/2001 10:00	2

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**OW-1**	Lab Sample ID:	**2001-03-0289-001**
Project:	014.07701 Penske 1st Qtr 2001 Monitoring	Received:	03/14/2001 15:46
		Extracted:	03/22/2001 12:27
Sampled:	03/14/2001 10:00	QC-Batch:	2001/03/22-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	110	50	ug/L	1.00	03/22/2001 12:27	g
Benzene	4.0	0.50	ug/L	1.00	03/22/2001 12:27	
Toluene	ND	0.50	ug/L	1.00	03/22/2001 12:27	
Ethyl benzene	ND	0.50	ug/L	1.00	03/22/2001 12:27	
Xylene(s)	0.50	0.50	ug/L	1.00	03/22/2001 12:27	
MTBE	ND	5.0	ug/L	1.00	03/22/2001 12:27	
Surrogate(s)						
Trifluorotoluene	82.8	58-124	%	1.00	03/22/2001 12:27	
4-Bromofluorobenzene-FID	83.5	50-150	%	1.00	03/22/2001 12:27	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**OW-2**	Lab Sample ID:	**2001-03-0289-002**
Project:	014.07701 Penske 1st Qtr 2001 Monitoring	Received:	03/14/2001 15:46
		Extracted:	03/21/2001 17:18
Sampled:	03/14/2001 10:00	QC-Batch:	2001/03/21-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	320	50	ug/L	1.00	03/21/2001 17:18	g
Benzene	5.6	0.50	ug/L	1.00	03/21/2001 17:18	
Toluene	ND	0.50	ug/L	1.00	03/21/2001 17:18	
Ethyl benzene	ND	0.50	ug/L	1.00	03/21/2001 17:18	
Xylene(s)	ND	0.50	ug/L	1.00	03/21/2001 17:18	
MTBE	ND	5.0	ug/L	1.00	03/21/2001 17:18	
Surrogate(s)						
Trifluorotoluene	86.4	58-124	%	1.00	03/21/2001 17:18	
4-Bromofluorobenzene-FID	73.0	50-150	%	1.00	03/21/2001 17:18	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank | **Water** | **QC Batch # 2001/03/21-01.01**

MB: 2001/03/21-01.01-001

Date Extracted: 03/21/2001 12:19

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	03/21/2001 12:19	
Benzene	ND	0.5	ug/L	03/21/2001 12:19	
Toluene	ND	0.5	ug/L	03/21/2001 12:19	
Ethyl benzene	ND	0.5	ug/L	03/21/2001 12:19	
Xylene(s)	ND	0.5	ug/L	03/21/2001 12:19	
MTBE	ND	5.0	ug/L	03/21/2001 12:19	
Surrogate(s)					
Trifluorotoluene	87.2	58-124	%	03/21/2001 12:19	
4-Bromofluorobenzene-FID	86.2	50-150	%	03/21/2001 12:19	

To: **SECOR-Oakland**

Attn.: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank | **Water** | **QC Batch # 2001/03/22-01.01**

MB: 2001/03/22-01.01-004

Date Extracted: 03/22/2001 08:37

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	03/22/2001 08:37	
Benzene	ND	0.5	ug/L	03/22/2001 08:37	
Toluene	ND	0.5	ug/L	03/22/2001 08:37	
Ethyl benzene	ND	0.5	ug/L	03/22/2001 08:37	
Xylene(s)	ND	0.5	ug/L	03/22/2001 08:37	
MTBE	ND	5.0	ug/L	03/22/2001 08:37	
Surrogate(s)					
Trifluorotoluene	85.6	58-124	%	03/22/2001 08:37	
4-Bromofluorobenzene-FID	83.5	50-150	%	03/22/2001 08:37	

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/03/21-01.01**

LCS: 2001/03/21-01.01-002 Extracted: 03/21/2001 12:52 Analyzed 03/21/2001 12:52

LCSD: 2001/03/21-01.01-003 Extracted: 03/21/2001 13:25 Analyzed 03/21/2001 13:25

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	481	505	500	500	96.2	101.0	4.9	75-125	20		
Benzene	95.7	90.5	100.0	100.0	95.7	90.5	5.6	77-123	20		
Toluene	95.6	89.4	100.0	100.0	95.6	89.4	6.7	78-122	20		
Ethyl benzene	92.7	88.0	100.0	100.0	92.7	88.0	5.2	70-130	20		
Xylene(s)	279	265	300	300	93.0	88.3	5.2	75-125	20		
Surrogate(s)											
Trifluorotoluene	501	462	500	500	100.2	92.4		58-124			
4-Bromofluorobenzene-FI	315	352	500	500	63.0	70.4		50-150			

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/03/22-01.01**

LCS: 2001/03/22-01.01-007 Extracted: 03/22/2001 10:16 Analyzed 03/22/2001 10:16

LCSD: 2001/03/22-01.01-008 Extracted: 03/22/2001 10:48 Analyzed 03/22/2001 10:48

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	435	516	500	500	87.0	103.2	17.0	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene-FI	296	387	500	500	59.2	77.4		50-150			

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

Test Method: 8020
Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/03/22-01.01**

LCS: 2001/03/22-01.01-009 Extracted: 03/22/2001 11:21 Analyzed 03/22/2001 11:21
LCSD: 2001/03/22-01.01-010 Extracted: 03/22/2001 11:54 Analyzed 03/22/2001 11:54

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	89.7	95.0	100.0	100.0	89.7	95.0	5.7	77-123	20		
Toluene	88.4	93.3	100.0	100.0	88.4	93.3	5.4	78-122	20		
Ethyl benzene	85.7	90.9	100.0	100.0	85.7	90.9	5.9	70-130	20		
Xylene(s)	264	274	300	300	88.0	91.3	3.7	75-125	20		
Surrogate(s)											
Trifluorotoluene	481	492	500	500	96.2	98.4		58-124			

To: **SECOR-Oakland**

Attn: Angus McGrath

Test Method: 8015M
8020

Prep Method: 5030

Legend & Notes

Gas/BTEX and MTBE

Analyte Flags

g

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

Misc Anions by Ion Chromatograph

SECOR-Oakland

Attn: Angus McGrath

Project #: 014.07701

360 22nd Street, Suite 600
Oakland, CA 94612

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

Project: Penske 1st Qtr 2001 Monitoring

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
OW-1	Water	03/14/2001 10:00	1
OW-2	Water	03/14/2001 10:00	2

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

Test Method: 9056
Prep Method: 9056

Misc Anions by Ion Chromatograph

Sample ID:	**OW-1**	Lab Sample ID:	**2001-03-0289-001**
Project:	014.07701 Penske 1st Qtr 2001 Monitoring	Received:	03/14/2001 15:46
		Extracted:	03/15/2001
Sampled:	03/14/2001 10:00	QC-Batch:	2001/03/15-01.41
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Nitrate	1.9	1.0	mg/L	1.00	03/15/2001	
Sulfate	140	20	mg/L	20.00	03/15/2001	

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

Test Method: 9056
Prep Method: 9056

Misc Anions by Ion Chromatograph

Sample ID:	**OW-2**	Lab Sample ID:	**2001-03-0289-002**
Project:	014.07701 Penske 1st Qtr 2001 Monitoring	Received:	03/14/2001 15:46
		Extracted:	03/15/2001
Sampled:	03/14/2001 10:00	QC-Batch:	2001/03/15-01.41
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	03/15/2001	
Sulfate	33	1.0	mg/L	1.00	03/15/2001	

To: **SECOR-Oakland** Test Method: 9056
Attn.: Angus McGrath Prep Method: 9056

Batch QC Report
Misc Anions by Ion Chromatograph

Method Blank **Water** **QC Batch # 2001/03/15-01.41**

MB: 2001/03/15-01.41-001 Date Extracted: 03/15/2001

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Nitrate	ND	1.0	mg/L	03/15/2001	
Sulfate	ND	1.0	mg/L	03/15/2001	

To: **SECOR-Oakland** Test Method: 9056

Attn: Angus McGrath Prep Method: 9056

Batch QC Report

Misc Anions by Ion Chromatograph

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/03/15-01.41**

LCS: 2001/03/15-01.41-002 Extracted: 03/15/2001 Analyzed 03/15/2001

LCSD: 2001/03/15-01.41-003 Extracted: 03/15/2001 Analyzed 03/15/2001

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Nitrate	18.6	18.7	20.0	20.0	93.0	93.5	0.5	80-120	20		
Sulfate	18.6	18.6	20.0	20.0	93.0	93.0	0.0	80-120	20		

2001-03-0289

Chain-of Custody Number: 58026

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: Penske 1st Qtr 2001 Monitoring
Location: 725 Julie Ann Way
Oakland CA

Project # 94.07701 Task #
Project Manager Angus McGrath
Laboratory Chromalab
Turnaround Time Standard

Sampler's Name
Sampler's Signature

Sample ID	Date	Time	Matrix
OW-1	3/14/01	10:00	H2O
OW-2	3/14/01	10:00	H2O

Analysis Request

HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020 + MTBE	TPHd/WTPH-D 8015 (modified) with Silica gel cleanup	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)	TCLP Metals	Nitrate/Sulfate	Comments/ Instructions	Number of Containers
	X	X										X		5
	X	X										X		5

Special Instructions/Comments:
Analyze for
TPHg/BTEX/MTBE
TPHd
Nitrate/Sulfate

5.0°C

Relinquished by:
Sign Dylan Cardiff
Print Dylan Cardiff
Company SECOR
Time 11:20 Date 3/14/01

Received by:
Sign
Print
Company STL
Time 1120 Date 3/14/01

Relinquished by:
Sign
Print
Company
Time 1548 Date 3/14/01

Received by:
Sign Denise Harrington
Print D. Harrington
Company STL-CC
Time 1546 Date 3/14/01

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

Client:
Client Contact:
Client Phone:

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