BASELINE ASSESSMENT REPORT
Site Number 11128
4707 First Street
Livermore, California

1. Site Features and History

The site is an operating service station located on the south corner of First Street and South Front Road in Livermore, California. Site features include a station building containing two auto service bays with hoists, a canopy area with a concrete drive slab, and four pump islands. Existing USTs at the station include one 12,000-gallon, two 10,000-gallon, and one 1,000-gallon double wall fiberglass tanks installed in October 1987 (SWRCB, 1989). The four USTs store unleaded, plus unleaded, and super unleaded gasolines, and waste oil, respectively (SWRCB, 1992). An aboveground 225-gallon steel propane tank is also present at the station. The station manager indicated that the propane tank has been on site for 20 years, but that the tank has been replaced "now and then."

EMCON personnel visited the site on July 8, 1994. Two UST complex observation wells were noted during EMCON's site visit, but could not be accessed. The concrete drive slab and asphalt pavement were observed to be badly cracked, and an old abandoned refrigerator was noticed on site. During the site visit, the station manager also indicated that the station building roof leaks and that the service bays were formerly used for auto repair.

BP acquired the service station from Mobil in May 1989 (BP, 1989). Former USTs at the station included one 10,000-gallon, one 8,000-gallon, one 6,000-gallon, and one 280-gallon steel tank installed in 1972 and removed in 1987 (Mobil, 1986; Alameda County Department of Environmental Health, 1987).

Surrounding properties consist of gasoline service stations and various commercial businesses. A former Chevron service station is located east of the site across South Front Road. The Chevron station had a confirmed release of approximately 4,000 gallons of gasoline in 1985. Chevron was responsible for the cleanup at the intersection of South Front Road and First Street (Chevron, 1992; Alameda County, 1992; ACHCS, 1992). A UNOCAL service station is located north of the site across First Street, and a mall and restaurant are located northwest of the site across First

Street. A drainage culvert is located west of the site, and a new road was under construction south of the site in July 1994.

A site plan (Figure A-1) and tabulated data from EMCON's supplemental assessment work (Table A-1) are included with this report as Attachment A. Site photographs are included as Attachment B. Copies of figures and tabulated data from previous site investigations are included as Attachment C. Copies of laboratory reports from EMCON's supplemental site assessment work are included as Attachment D.

2. Previous Investigations and Remediation Activities

Paradiso removed the four steel USTs from the station in October 1987 (Alameda County Department of Environmental Health, 1987). KEI supervised the tank removal and collected soil samples from the excavation for Mobil (KEI, 1987a). KEI (1987a) reported that the four tanks were in good condition. KEI collected six soil samples (A1, A2, B1, B2, C1, and C2) from the native soil beneath the fuel tanks, and one soil sample (W.O.-1) from beneath the waste oil tank (Figure C-1). Soil encountered during excavation consisted primarily of clayey sand. KEI (1987a) reported that a "slight odor" was detected in sample A1.

Soil sample A1, collected from a depth of 15 feet bgs, contained 260 ppm total hydrocarbons (THC; method unknown), benzene (1.2 ppm), toluene (2.4 ppm), and xylenes (19 ppm; Table C-1). Soil samples A2, B1, C1, and C2 contained between 1.4 to 2.3 ppm THC. Soil sample W.O.-1 contained 4 ppm methylene chloride and 0.17 ppm toluene (Table C-1).

KEI collected composite soil samples from the stockpiled soil excavated during the tank removal (KEI, 1987b). THC (3.6 ppm) and xylenes (0.6 ppm) were detected in one composite soil sample (Table C-2).

Nineteen wells were installed on behalf of Chevron at the Chevron service station site, BP service station site, and in the intersection in late 1985 or early 1986 (Figure C-2; Chevron, 1993a). According to Chevron (1993a), no soil samples were collected or analyzed during well installation. Chevron (1993a) indicated that the USTs at the Chevron station were replaced in January 1985.

In 1990, Chevron apparently connected a groundwater remediation air stripping unit to an extraction well installed on BP's property. The system did not appear to have been installed with BP's permission (BP, 1994). The system apparently only operated from March 26 to December 6, 1990 (ACHCS, 1992). According to ACHCS (1992), the data Chevron submitted to their office suggested that relatively clean downgradient water was

extracted along with the contaminated groundwater since the only extraction well was located on BP property downgradient from the Chevron site. ACHCS (1992) indicated that extracting groundwater from the BP well could "exasperate" the extent of the problem by "pulling" contaminants away from the Chevron site and toward the BP site. ACHCS (1992) required Chevron "at a minimum" [to] "engineer and install a system capable of meeting [the] goal" of controlling the further migration of its plume from the site. ACHCS (1992) stated that passive monitoring of contaminant levels was not appropriate.

Chevron monitored and sampled groundwater at the intersection from 1986 to approximately 1992 (Chevron, 1992). In 1991, Chevron shifted from quarterly to semiannual monitoring for some wells. Alameda County (1992) indicated that semiannual monitoring was not acceptable, and Chevron resumed quarterly sampling in 1992 (Chevron, 1992).

Chevron removed the inoperative groundwater extraction system and air stripping unit from well RW-1 on the BP property in July 1993 (Chevron, 1993b). Despite previous agency requests for further groundwater remediation (ACHCS, 1992), no evidence of resumed efforts to remediate groundwater at the intersection was found in BP or agency files made available to EMCON.

Alton conducted quarterly sampling of the 19 groundwater monitoring wells for Chevron in April, September, and October 1991, and in April 1992 (Alton, 1991a, 1991b, 1992). Due to the semiannual sampling schedule in 1991, wells C-1, C-2, C-6, C-9, C-11, C-12, C-13, C-15, C-16, and C-19 were not sampled during April, September, or October 1991. Alton (1991a, 1991b, 1992) reported that the groundwater flow direction was toward the west during these monitoring events.

GTI conducted quarterly groundwater sampling for Chevron in July and October 1992; January, March, April (due to blank contamination in the March samples, they had to resample in April), July, and October 1993; and January 1994 (GTI, 1992a, 1992b, 1993a, 1993b, 1993c, 1993d, 1994). The most recent groundwater monitoring report described sampling conducted in January 1994. GTI reported that wells C-14 and C-16 were not sampled in July 1993 due to heavy traffic, well C-14 was not sampled in October 1993 due to insufficient water in the well, and well C-18 was not sampled during October 1993 or January 1994 because it had been paved over during road work. TPH-G (up to 1,200,000 ppb) and BTEX (up to 14,000 ppb benzene, 25,000 ppb toluene, 3,900 ppb ethylbenzene, and 26,000 ppb xylenes) generally have been detected in the groundwater samples collected from wells C-1, C-2, C-5, C-6 through C-9, C-11, C-14, C-16, and C-17 (Table C-3). One or more of the following constituents have also been detected in groundwater samples collected from wells C-1 through C-19: 1,2-DCA;

methylene chloride; 1,1,1-TCA; 1,1,1-DCA; carbon disulfide; and vinyl chloride. The highest TPH-G and BTEX concentrations generally have been detected in groundwater samples collected from wells C-6, C-7,C-9, C-14, and C-17. GTI reported that the groundwater flow direction was generally toward the west and northwest during 1993 and 1994 (Figure C-2).

3. Regulatory Status and Other Issues

EMCON reviewed agency files at Alameda County. The files included monitoring plans, tank integrity testing information, and groundwater sampling reports. Letters from Alameda County to Chevron indicated that Chevron was responsible for cleanup of contamination at the intersection. The agency required that groundwater remediation be initiated by Chevron, but no treatment system has been installed to date.

4. Supplemental Site Assessment Work

On October 21, 1994, EMCON conducted supplemental assessment activities at the site. These activities consisted of advancing three exploratory soil borings (THP-1 through THP-3) near the pump islands, UST complex, and waste oil UST (Figure A-1), and checking the fuel dispensers for the presence of spill containment boxes and for indications of possible leakage. Spill containment boxes were not observed beneath the four dispensers on site. Stained pea gravel backfill material was observed below the southwest dispenser. PID readings up to 151 ppm were obtained from pea gravel backfill material below each dispenser.

Soil borings THP-1 and THP-3 were advanced to approximately 22 to 23 feet bgs by using CPT equipment. Soil boring THP-2 was advanced to 8 feet bgs. CPT rig refusal was encountered at the total depth of each of the borings. Soil types encountered in the borings included mixtures of clay, silt, and sand to the total depth of each boring. PID readings obtained from soil samples collected from the borings ranged from nondetect to 3.1 ppm. Groundwater was encountered in THP-1 and THP-3 at approximately 18 and 17 feet bgs, respectively.

Two soil samples per boring were selected for laboratory analysis of TPH-G, TPH-D, TPH-O, and BTEX. None of the constituents analyzed for was detected in the analyzed soil samples (Table A-1). Groundwater samples collected from borings THP-1 and THP-3 by using HydroPunch™ equipment were submitted for laboratory analysis of TPH-G, TPH-D, TPH-O, and BTEX. Ethylbenzene (0.8 ppb) and xylenes (4 ppb) were detected in the groundwater sample collected from THP-1 (Table A-1).

Soil grab samples collected below the fuel dispensers were analyzed for TPH-G, TPH-D, TPH-O, and BTEX. TPH-G (up to 79 ppm), TPH-D (up to 360 ppm), and one or more BTEX constituents (up to 0.14 ppm toluene, 0.11 ppm ethylbenzene, and 0.80 ppm xylenes) were detected in each of the dispenser grab samples (Table A-1).

5. Baseline Summary

A review of the most recent relevant data available in existing files, observations made during site visits, and data collected during the environmental investigations performed in accordance with the BP/Tosco purchase agreement have determined the presence of hazardous substance contamination in the soil and groundwater at this site. Such review has further determined evidence of contamination and sources of contamination which could result in the presence of hazardous substance contamination not yet detected.

Although the complete extent of contamination is not known at this time, there is sufficient evidence to demonstrate that the site was contaminated before the time of Tosco's purchase. Areas at the site for which evidence of contamination exists are: the UST complex location, the waste oil UST location, the pump islands area, and the eastern portion of the site.

Soil samples collected from the former UST excavation, former waste oil UST excavations, and beneath the dispensers (TD-1 through TD-4) contained one or more of the following at concentrations above method detection limits: TPH-G, TPH-D, BTEX constituents, and methylene chloride.

Analysis of groundwater samples collected from on-site wells C-10, C-11, C-12, C-17, and C-19 and from boring THP-1 demonstrated the presence of one or more of the following at concentrations above method detection limits: TPH-G, TOG, BTEX constituents, and VOCs.

The extent of evidence of actual contamination levels present and the evidence of sources of contamination consists of:

- Soil and groundwater data as summarized earlier in this report and detailed in existing files.
- The presence of on-site groundwater monitoring wells, groundwater extraction wells, and a groundwater remediation system installed on behalf of Chevron.

In conclusion, existing and developed evidence establishes a contamination baseline consisting of the measured presence of hazardous substance contamination in soil and

groundwater and evidence of historic sources and/or releases of hazardous substances. This report establishes a contamination baseline consisting of:

1. Known areas of contamination from measured or observed direct evidence, and

2. On-site or off-site areas of contamination which have not yet been detected but which are associated with or are consistent with evidence of existing areas of contamination and historic releases of hazardous substances.

References Cited in Report

Alameda County Department of Environmental Health. 1987. Memorandum regarding tank removal and installation. October 6, 1987.

Alameda County Department of Environmental Health. 1988. *Hazardous Materials Inspection Form.* PJ Mobil. 4707 South Front Street, Livermore, California. February 1, 1988.

Alameda County. 1992. Letter to Chevron regarding sampling frequency. May 8, 1992.

ACHCS. 1992. Letter to Chevron regarding Chevron Station #9-1924, 4904 South Front Street, Livermore, California. December 29, 1992.

Alton. 1991a. *Semiannual Ground Water Monitoring Report.* Chevron Station No. 9-1924. 4904 Southfront Road, Livermore, California. May 30, 1991.

Alton. 1991b. *Semiannual Ground Water Monitoring Report.* Chevron Station No. 9-1924. 4904 Southfront Road, Livermore, California. October 18, 1991.

Alton. 1992. *Semiannual Ground Water Monitoring Report.* Chevron Station No. 9-1924. 4904 Southfront Road, Livermore, California. April 27, 1992.

BP. 1989. Underground Storage Tank Registration, BP Oil Company Facilities, County of Alameda (letter to Alameda County Department of Environmental Health). June 27, 1989.

BP. 1994. BP Oil Site No. 11128. I-580 and First. Livermore, California (letter to Chevron U.S.A. Products Company). February 10, 1994.

Chevron. 1992. Letter to Alameda County Department of Environmental Health regarding groundwater monitoring. May 13, 1992.

Chevron. 1993a. Letter to BP regarding Chevron Station #9-1924, 4904 South Front Street, Livermore, California. March 22, 1993.

Chevron. 1993b. Letter to City of Livermore Fire Department regarding removal of groundwater extraction system and air stripping unit from BP service station across from Chevron #9-1924. 4904 South Front Street, Livermore, California. July 20, 1993.

GTI. 1992a. *Quarterly Monitoring and Sampling Activities.* Chevron Service Station 9-1924. 4904 Southfront Road. Livermore, California. September 16, 1992.

GTI. 1992b. *Quarterly Monitoring and Sampling Activities.* Chevron Service Station 9-1924. 4904 Southfront Road, Livermore, California. December 2, 1992.

GTI. 1993a. *Quarterly Monitoring and Sampling Activities.* Chevron Service Station 9-1924. 4904 Southfront Road, Livermore, California. April 16, 1993.

GTI. 1993b. *Quarterly Monitoring and Sampling Activities.* Chevron Service Station 9-1924. 4904 Southfront Road, Livermore, California. June 7, 1993.

GTI. 1993c. *Quarterly Monitoring and Sampling Activities.* Chevron Service Station 9-1924. 4904 Southfront Road, Livermore, California. September 14, 1993.

GTI. 1993d. *Quarterly Monitoring and Sampling Activities.* Chevron Service Station 9-1924. 4904 Southfront Road, Livermore, California. December 2, 1993.

GTI. 1994. *Quarterly Monitoring and Sampling Activities.* Chevron Service Station 9-1924. 4904 Southfront Road, Livermore, California. March 4, 1994.

KEI. 1987a. *Soil Sampling Investigation Report.* Mobil S/S #10-LYH, 4707 First Street, Livermore, California. December 1, 1987.

KEI. 1987b. Stockpiled Soil Sampling for Mobil S/S#10-LYH. 4707 South Front Street, Livermore, California (letter report to Mobil Oil Corporation). December 1, 1987.

Mobil. 1986. *Monitoring Plan.* Mobil Service Station 10-LYH. 4707 First Street/I-580, Livermore, California. August 22, 1986.

Paradiso. 1987. Telephone notes in agency files. October 1987.

SWRCB. 1989. Underground Storage Tank Permit Application (Forms A and B), for BP Oil Company Facility Site No. 11128. 1989.

SWRCB. 1992. Underground Storage Tank Permit Application (Forms A and B), for BP Oil Company Facility Site No. 11128. 1992.

Other Documents Reviewed

BP. Undated. *Hazardous Materials Management Plan, BP Oil Facility No. 11128.* 4707 First Street, Livermore, California.

BP. 1992. State of California. WRCB UST Program, UST Permit Application for change of tank contents to plus unleaded. May 1, 1992.

BP. 1993. *UST Monitoring Plan.* BP Oil Facility No. 11128. 4707 First Street, Livermore, California. January 8, 1993.

BP/Mobil. 1989. *BP/Mobil Exchange Environmental Disclosure.* 4707 First Street, Livermore, California. March 29, 1989.

GTI. 1994. *Work Plan For Additional Assessment, Former Chevron Station No. 9-1924.* 4904 South Front Street, Livermore, California. May 4, 1994.

Heath Consultants. 1986. Data chart of tank system tightness test. February 26, 1986.

Mobil. 1986a. Letter to Alameda County Division of Environmental Health regarding Mobil Oil Corporation Monitoring Plans-Alameda County. August 29, 1986.

Mobil. 1986b. Letter to Alameda County Division of Environmental Health, Alameda County, regarding Mobil Oil Corporation UST testing results. 4707 First Street, Livermore, California. November 7, 1986.

Mobil. 1987. *Hazardous Materials Management Plan.* Mobil Service Station #10-LYN 4707 First Street, Livermore, California. 1987.

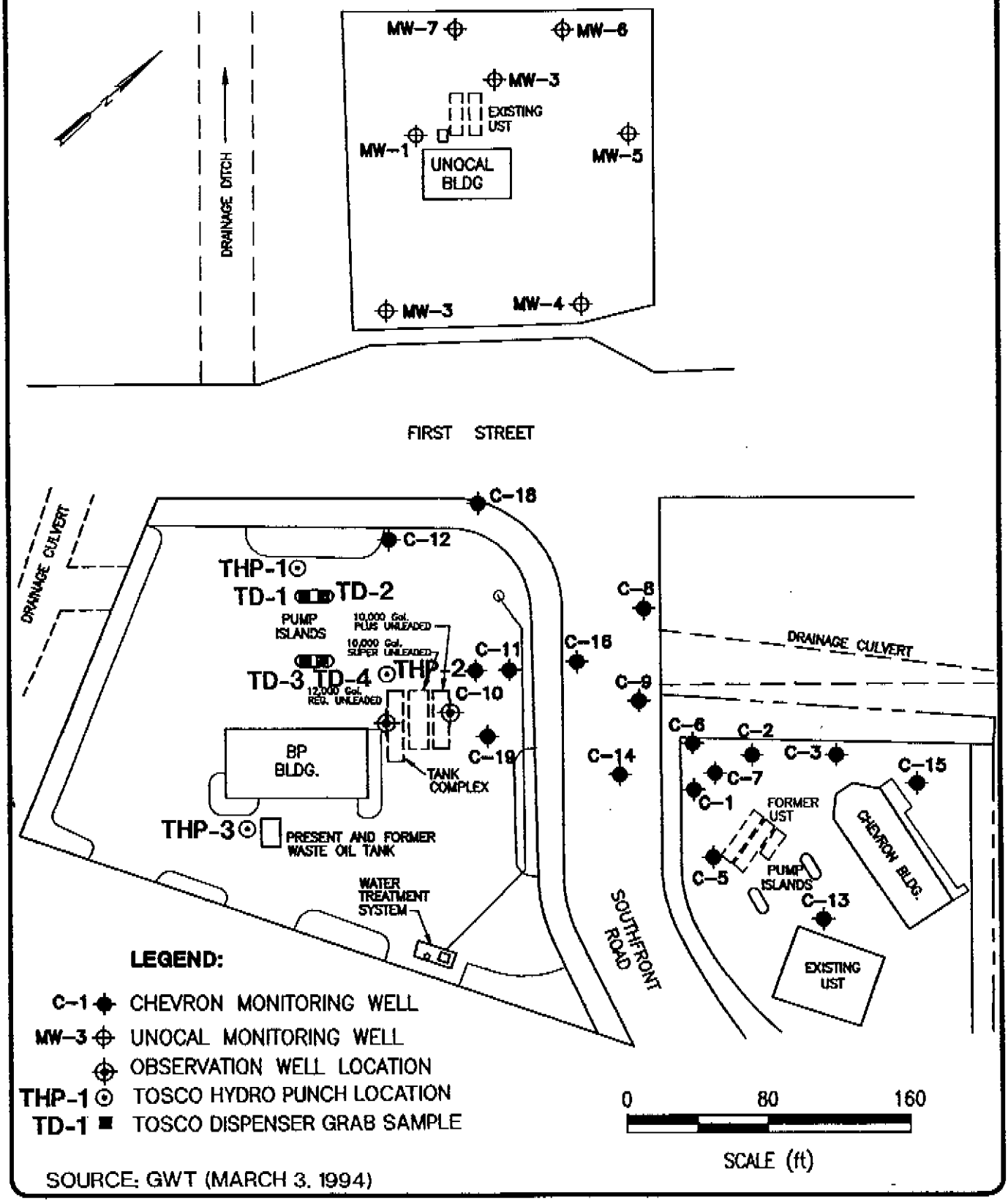
Mobil. 1987. Letter to Alameda County Department of Environmental Health regarding Mobil Oil Corporation Service Station 10-LYH. 4707 First Street, Livermore, California. October 26, 1987.

Tait. 1992. Letter of Transmittal to Alameda County Health Department regarding change of information from regular leaded to plus unleaded gasoline. May 1, 1992.

Triangle, Inc., of Sacramento. 1987. Data Chart for Tank System Tightness Test. New Installation, Mobil. 4707 South Front Street, Livermore, California. October 26, 1987.

ATTACHMENT A

SITE PLAN AND TABULATED DATA FROM SUPPLEMENTAL SITE ASSESSMENT



SOURCE: GWT (MARCH 3, 1994)

EMCON Northwest, Inc.

DATE 12-08-94
DWN. MLP
REV.
APPR.
PROJECT NO.
0952-041.03

Figure A-1
TOSCO #11128
4707 FIRST STREET
LIVERMORE, CALIFORNIA
SITE PLAN

Table A-1

Site Number 11128
4707 First Street, Livermore, California

Soil Sample Results of Analyses (ppm)

Sample Number	Depth (feet)	Date Collected	California DHS LUFT Method TPH-G	California DHS LUFT Method Hydrocarbon Scan		BTEX EPA Method 5030/8020			
			TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes
THP1-S-10-10.5**	10-10.5	10/21/94	*nd*	*nd*	*nd*	*nd*	*nd*	*nd*	*nd*
THP1-S-13.5-14	13.5-14	10/21/94	*nd*	*nd*	*nd*	*nd*	*nd*	*nd*	*nd*
THP2-S-3-3.5	3-3.5	10/21/94	*nd*	*nd*	*nd*	*nd*	*nd*	*nd*	*nd*
THP2-S-6.5-7	6.5-7	10/21/94	*nd*	*nd*	*nd*	*nd*	*nd*	*nd*	*nd*
THP3-S-10-10.5	10-10.5	10/21/94	*nd*	*nd*	*nd*	*nd*	*nd*	*nd*	*nd*
THP3-S-13.5-14	13.5-14	10/21/94	*nd*	*nd*	*nd*	*nd*	*nd*	*nd*	*nd*
TD1-0.5	0.5	10/21/94	0.4	140	*nd*	*nd*	0.006	*nd*	0.028
TD2-0.5	0.5	10/21/94	35	360	*nd*	*nd**	*nd**	*nd**	0.17
TD3-0.5	0.5	10/21/94	79	200	*nd*	*nd**	0.14	0.11	0.80
TD4-0.5	0.5	10/21/94	47	290	*nd*	*nd**	*nd**	*nd**	0.25

Groundwater Sample Results of Analyses (ppb)

Sample Number	Depth to Water (feet)	Date Sampled	California DHS LUFT Method TPH-G	California DHS LUFT Method Hydrocarbon Scan		BTEX EPA Method 5030/8020			
			TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes
THP1-W	18	10/21/94	*nd*	*nd*	770	*nd*	*nd*	0.8	4
THP3-W	17	10/21/94	*nd*	*nd*	*nd*	*nd*	*nd*	*nd*	*nd*
BLK-W	*n/a*	10/21/94	*nd*	—	—	*nd*	*nd*	*nd*	*nd*

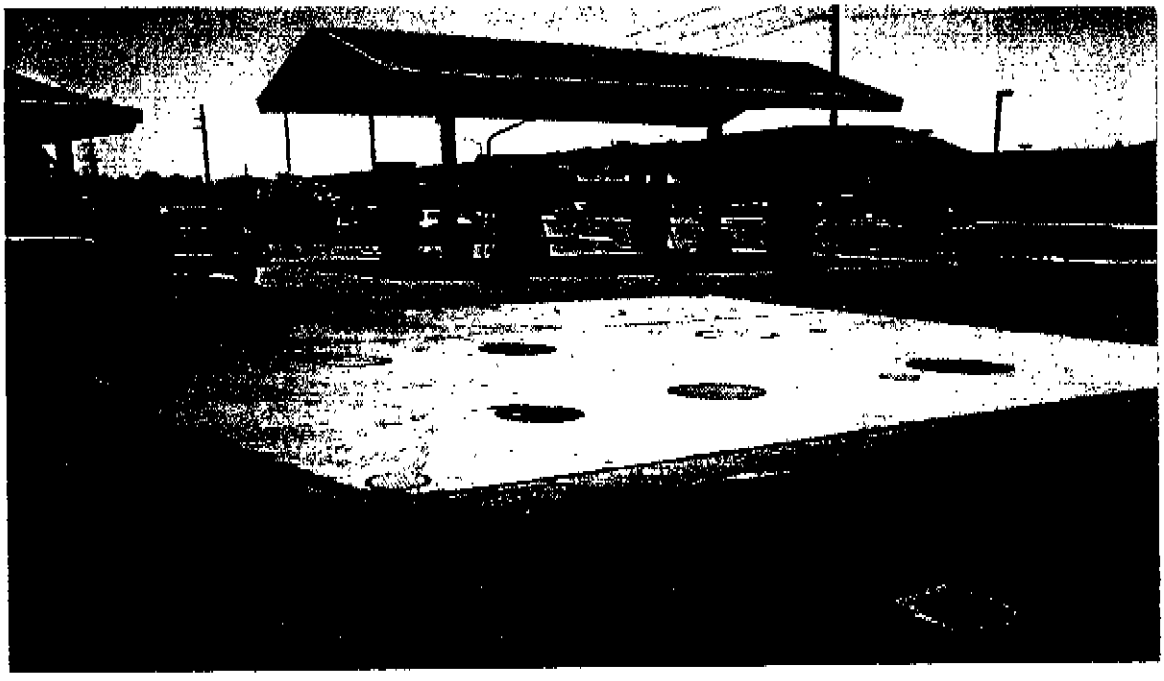
NOTE:
- TPH-G = Total petroleum hydrocarbons as gasoline.
- TPH-D = Total petroleum hydrocarbons as diesel.
- TPH-O = Total petroleum hydrocarbons as oil.
- *nd* = Not detected at or above method reporting limit.
- *n/a* = Not applicable.
- — = Not analyzed.
- TW = Tosco well.
- TB = Tosco boring.
- TD = Tosco dispenser soil sample.
- THP = Tosco HydroPunch.
- SGP = Soil gas probe.
- BLK = Tosco HydroPunch equipment blank sample.
- * = Raised method reporting limits (see laboratory report in Attachment D).
- ** = THP1 through THP3 are referred to as HP1 through HP3 on the lab report.

ATTACHMENT B

SITE PHOTOGRAPHS

150969

PUMP ISLANDS AND STATION BUILDING



PUMP ISLANDS
TANK COMPLEX IN FOREGROUND

EMCON
Northwest, Inc.

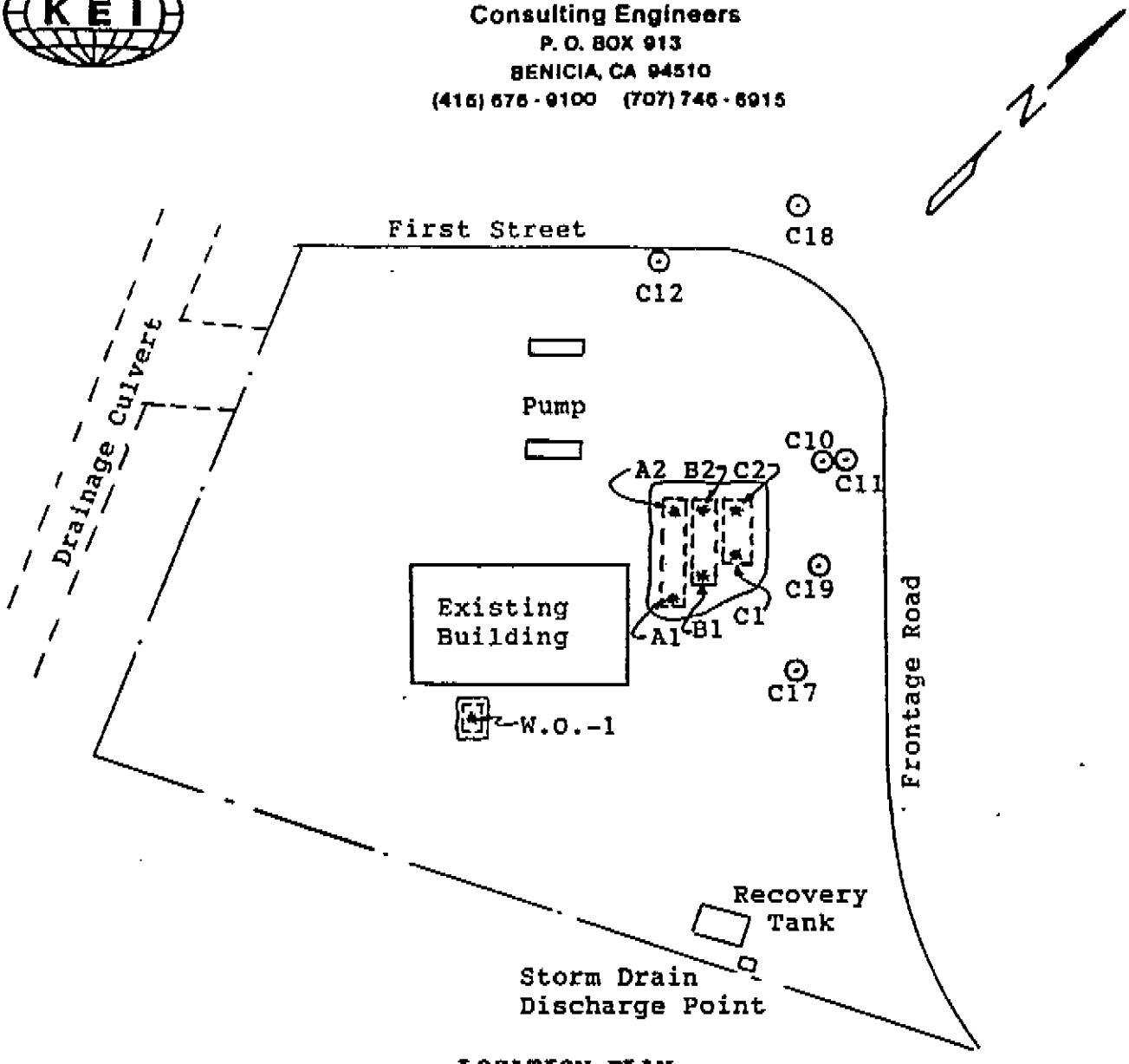
DATE 10-94
DWN. MLP
APPR. ____
REVIS. ____
PROJECT NO.
0952-041.03

Figure B-1
TOSCO #11128
4707 FIRST STREET
LIVERMORE, CALIFORNIA
SITE PHOTOGRAPHS

ATTACHMENT C

SUMMARY TABLES AND FIGURES FROM PREVIOUS INVESTIGATIONS

KAPREALIAN ENGINEERING, INC.
Consulting Engineers
P. O. BOX 913
BENICIA, CA 94510
(415) 676 - 9100 (707) 746 - 6915



LOCATION PLAN

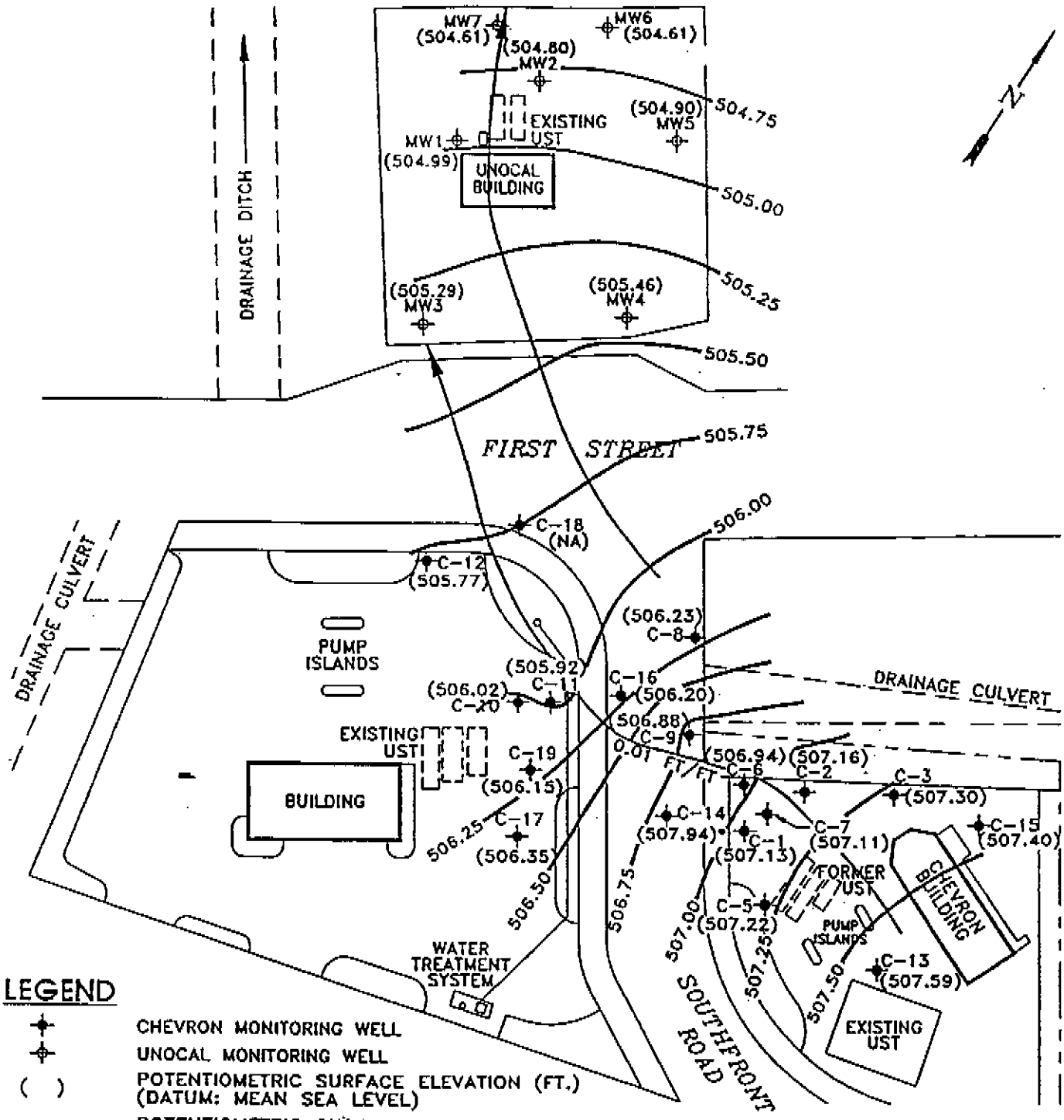
* Location of Soil Sample

⊙ Existing Monitoring Well

Mobil S/S #10-LYH
4707 First Street
Livermore, California

Source: KEI, December 1, 1987

Figure C-1



LEGEND

- CHEVRON MONITORING WELL
- UNOCAL MONITORING WELL
- ( ) POTENTIOMETRIC SURFACE ELEVATION (FT.) (DATUM: MEAN SEA LEVEL)
- POTENTIOMETRIC SURFACE CONTOUR INTERVAL = 0.25 FT.
- 0.01 FT/FT ESTIMATED GROUNDWATER FLOW DIRECTION AND APPROXIMATE GRADIENT
- (NA) NOT AVAILABLE; WELL PAVED OVER
- * ANOMALOUS DATA; NOT USED FOR CONTOURING

GROUNDWATER TECHNOLOGY

0 FEET 80
SCALE

POTENTIOMETRIC SURFACE MAP JANUARY 20, 1994

CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION NO. 9-1924	FILE: 4233SMA/4233PSM	PROJECT NO.: 02070-4233	PM	PE/RG	
LOCATION: 4904 SOUTHFRONT ROAD LIVERMORE, CALIFORNIA	REV. 2			FIGURE: 1	
	DES. DSB	DET. AJK	DATE: 3/3/94		

TABLE 1

SUMMARY OF LABORATORY ANALYSES

(all analyses are in parts per million)

Sample #	Depth	Total Hydrocarbon	Benzene	Toluene	Xylene
A1	15'	260	1.2	2.4	19
A2	15'	1.6	<0.1	<0.1	<0.1
B1	15'	1.4	<0.1	<0.1	<0.1
B2	15'	<1.0	<0.1	<0.1	<0.1
C1	15'	1.8	<0.1	<0.1	<0.1
C2	15'	2.3	<0.1	<0.1	<0.1

Parameter	W.O.-1	
THC as Diesel	< 1.0	ppm
Total Oil and Grease	<30	ppm
8240 Constituents:		
Methylene Chloride (TTLC)	4	ppm
Toluene	0.17	ppm

Source: KEI, December 1, 1987

Table C-1

Composite Sample	Total Hydrocarbons (ppm)	Benzene (ppm)	Toluene (ppm)	Xylene (ppm)
Comp A	<1.0	<0.1	<0.1	<0.1
Comp B	3.6	<0.1	<0.1	0.6
Comp C	<1.0	<0.1	<0.1	<0.1
Comp D	<1.0	<0.1	<0.1	<0.1
Comp E	<1.0	<0.1	<0.1	<0.1

Source: KEI, December 1, 1987

Table C-2

Ta. l

HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL-BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2-DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-1	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	11.75	0.00	508.64
520.39	03/15/88	770	67	610	2,100	27,000	--	--	--	--	--	--	--	13.50	0.00	506.89
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	13.65	0.00	506.74
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.72	0.00	505.67
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	13.50	0.00	506.89
	10/13/88	220	11	62	130	3,200	--	--	--	--	--	--	--	12.89	0.00	507.50
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	12.89	0.00	507.50
	01/12/89	820	43	490	260	4,000	--	--	--	--	--	--	--	--	--	--
	04/10/89	100	ND	70	50	4,000	ND	ND	--	--	--	--	--	13.65	0.00	506.74
	04/10/89	100	ND	60	50	4,000	--	ND	--	--	--	--	--	13.65	0.00	506.74
	06/26/89	97	20	60	50	600	ND	3	--	--	--	--	--	13.94	0.00	506.45
	06/26/89	88	15	44	35	570	--	1.7	--	--	--	--	--	13.94	0.00	506.45
	10/13/89	64	ND	51	48	1,600	ND	ND	5	--	--	--	--	13.92	0.00	506.47
	01/03/90	36	0.68	30	30	1,100	--	1	--	--	--	--	--	13.80	0.00	506.59
	05/08/90	37	9.2	40	32	1,300	--	1.2	--	ND	--	ND	--	13.91	0.00	506.48
	09/29/90	19	1.2	32	31	350	--	ND	ND	0.7	1.4	ND	--	13.93	0.00	506.46
	01/03/91	12	ND	17	14	400	--	ND	ND	ND	ND	ND	ND	13.85	0.00	506.54
	04/12/91	--	--	--	--	--	--	--	--	--	--	--	--	13.51	0.00	506.88
	09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	14.10	0.00	506.29
	04/06/92	12	0.8	31	31	1,000	--	ND	ND	ND	ND	ND	ND	13.06	0.00	507.33
	07/28/92	47	110	95	260	4,200	--	--	--	--	--	--	--	13.93	0.00	506.46
	10/16/92	11	ND	32.0	55.0	1,600	--	--	--	--	--	--	--	14.45	0.00	505.94
	01/14/93*	24	ND	98	62	2,000	--	--	--	--	--	--	--	11.23	0.00	509.16
	03/26/93	21	12	120	100	4,400	--	--	--	--	--	--	--	10.94	0.00	509.45
	04/22/93	26	44	560	330	16,000	--	--	--	--	--	--	--	16.25	SHEEN	504.14
	07/20,21/93	73	11	470	470	7,100**	--	--	--	--	--	--	--	15.29	0.00	505.10
	10/20/93	19	26	260	190	680**	--	--	--	--	--	--	--	13.50	0.00	506.89
	01/20/94	13	10	130	60	2,900	--	--	--	--	--	--	--	13.26	0.00	507.13

Source: GTI, March 6, 1994

GROUNDWATER TECHNOLOGY

Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL-BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2-DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-2	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	11.98	0.00	508.78
520.76	03/15/88	3,900	1,900	1,200	1,200	22,000	--	--	--	--	--	--	--	13.77	0.00	506.99
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.03	0.00	506.73
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	15.12	0.00	505.64
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	13.86	0.00	506.90
	10/13/88	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.11	0.00	506.65
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	12.83	0.00	507.93
	01/12/89	25	3	83	59	1,000	--	--	--	--	--	--	--	--	--	--
	04/10/89	2.5	ND	15	12	600	ND	ND	--	--	--	--	--	14.04	0.00	506.72
	04/10/89	ND	ND	11	11	ND	--	ND	--	--	--	--	--	14.04	0.00	506.72
	06/26/89	5.3	6	18	14	640	ND	ND	--	--	--	--	--	14.34	0.00	506.42
	06/26/89	3.7	0.6	13	6.2	750	--	2	--	--	--	--	--	14.34	0.00	506.42
	10/13/89	ND	ND	17	10	630	--	ND	--	--	--	--	--	13.92	0.00	506.84
	01/03/90	3	ND	19	17	880	--	1	--	--	--	--	--	14.11	0.00	506.65
	05/08/90	1.3	2.7	6.4	11	340	--	1.1	--	ND	--	ND	--	14.28	0.00	506.48
	09/29/90	ND	ND	4.6	1.8	74	--	ND	ND	1.7	0.5	ND	--	14.25	0.00	506.51
	01/03/91	270	ND	79	93	2,000	--	ND	ND	ND	ND	ND	ND	14.15	0.00	506.61
	04/12/91	--	--	--	--	--	--	--	--	--	--	--	--	13.86	0.00	506.90
	09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	14.50	0.00	506.26
	04/06/92	ND	ND	54.0	6.1	1,200	--	ND	ND	ND	ND	ND	ND	13.47	0.00	507.29
	07/28/92	5.2	2.9	26	16	1,000	--	--	--	--	--	--	--	14.35	0.00	506.41
	10/16/92	ND	2.2	20	10	2,000	--	--	--	--	--	--	--	14.84	0.00	505.92
	01/14/93*	49	50	31	29	1,800	--	--	--	--	--	--	--	11.22	0.00	509.54
	03/26/93	15	12	14	6	820**	--	--	--	--	--	--	--	10.77	0.00	509.99
	04/22/93	12	12	28	29	2,000	--	--	--	--	--	--	--	12.93	0.00	507.83
	07/20,21/93	28	6	4	4	1,100**	--	--	--	--	--	--	--	16.02	0.00	504.74
	10/20/93	140	18	22	27	1,600**	--	--	--	--	--	--	--	13.84	0.00	506.92
	01/20/94	36	3	7	3	760	--	--	--	--	--	--	--	13.60	0.00	507.16
C-3	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	12.24	0.00	509.07
521.31	03/15/88	86	8	30	36.0	2,100	--	--	--	--	--	--	--	14.21	0.00	507.10
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.43	0.00	506.88
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	15.53	0.00	505.78
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	14.22	0.00	507.09
	10/13/88	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.10	0.00	507.21
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	12.70	0.00	508.61
	04/10/89	2.1	ND	4.4	2.6	200	ND	1.4	--	--	--	--	--	14.36	0.00	506.95
	06/26/89	1.1	0.7	4.9	1.6	260	ND	1.5	--	--	--	--	--	14.74	0.00	506.57
	10/13/89	ND	ND	ND	ND	ND	--	ND	--	--	--	--	--	14.70	0.00	506.61
	01/03/90	ND	ND	0.9	1.4	ND	--	0.7	--	--	--	--	--	14.42	0.00	506.89
	05/08/90	ND	ND	ND	ND	ND	--	0.7	--	ND	--	ND	--	14.65	0.00	506.66
	09/27/90	ND	1.0	ND	ND	71	--	ND	ND	1.1	1.6	ND	--	14.67	0.00	506.64
	01/03/91	ND	ND	ND	ND	57	--	ND	ND	ND	ND	ND	ND	14.58	0.00	506.73
	04/12/91	ND	ND	1.6	ND	98	--	ND	ND	ND	ND	ND	ND	14.23	0.00	507.08
	09/04/91	ND	ND	ND	ND	64	--	ND	ND	ND	ND	ND	ND	14.88	0.00	506.43
	04/06/92	ND	ND	0.8	ND	88	--	ND	ND	ND	ND	ND	ND	13.83	0.00	507.48
	07/28/92	ND	ND	0.5	1.1	80	--	--	--	--	--	--	--	14.80	0.00	506.51
	10/16/92	ND	ND	6.6	11	1,400	--	--	--	--	--	--	--	15.23	0.00	506.08
	01/14/93*	ND	ND	ND	1.3	100	--	--	--	--	--	--	--	11.45	0.00	509.86
	03/26/93	0.7	1	ND	ND	74	--	--	--	--	--	--	--	11.27	0.00	510.04
	04/22/93	ND	ND	ND	ND	ND**	--	--	--	--	--	--	--	12.61	0.00	508.70
	07/20,21/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	16.17	0.00	505.14
	10/20/93	ND	1	ND	0.8	ND	--	--	--	--	--	--	--	14.23	0.00	507.08
	01/20/94	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.01	0.00	507.30

Source: GTI, March 6, 1994

Table 1

HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL-BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2-DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-5	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	12.00	0.00	508.82
520.82	03/15/88	82	7	77	95	1,600	--	--	--	--	--	--	--	13.75	0.00	507.07
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	13.92	0.00	506.90
	07/10/88	--	--	--	--	--	--	--	--	--	--	--	--	13.72	0.00	507.10
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	13.72	0.00	507.10
	10/13/88	ND	ND	ND	ND	2,500	--	--	--	--	--	--	--	13.84	0.00	506.98
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	13.41	0.00	507.41
	01/12/89	42	3	44	52	ND	--	--	--	--	--	--	--	--	0.00	520.82
	04/10/89	2.6	ND	6.2	5.5	180	ND	1.4	--	--	--	--	--	13.88	--	--
	06/26/89	7.6	0.8	40	56	420	ND	1.5	--	--	--	--	--	14.14	0.00	506.68
	10/13/89	ND	ND	10	ND	620	ND	ND	--	--	--	--	--	14.15	0.00	506.67
	01/03/90	0.7	ND	8	6	ND	--	ND	--	--	--	--	--	14.10	0.00	506.72
	05/08/90	0.8	0.8	11	7.2	140	--	0.8	--	ND	--	ND	--	14.00	0.00	506.82
	09/27/90	ND	3.2	5.2	6.4	360	--	ND	ND	0.7	ND	ND	--	14.00	0.00	506.82
	01/03/91	ND	ND	ND	3	90	--	ND	ND	ND	ND	ND	ND	14.00	0.00	506.82
	04/12/91	12	ND	19	7	270	--	0.5	ND	ND	ND	ND	ND	13.71	0.00	507.11
	09/04/91	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	14.30	0.00	506.52
	04/06/92	12	ND	40	ND	670	--	ND	ND	ND	ND	ND	ND	13.29	0.00	507.53
	07/28/92	15	ND	1.8	0.5	130	--	--	--	--	--	--	--	14.13	0.00	506.69
	10/16/92	ND	ND	ND	1.2	ND	--	--	--	--	--	--	--	14.68	0.00	506.14
	01/14/93*	13	ND	110	10	2,300	--	--	--	--	--	--	--	11.87	0.00	508.95
	03/26/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/22/93	220	16	120	65	2,300**	--	--	--	--	--	--	--	12.12	0.00	508.70
	07/20,21/93	16	5	6	14	970**	--	--	--	--	--	--	--	16.04	0.00	504.78
	10/20/93	7	5	3	15	2,200	--	--	--	--	--	--	--	14.10	0.00	506.72
	01/20/94	2	1	11	0.6	440	--	--	--	--	--	--	--	13.60	0.00	507.22

Source: GTI, March 6, 1994

GROUNDWATER TECHNOLOGY

Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL-BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2-DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-6	03/26/86	--	--	--	--	--	--	--	--	--	--	--	--	11.12	0.00	508.50
519.62	03/15/88	870	4,600	1,500	8,200	46,000	--	--	--	--	--	--	--	12.93	0.00	506.69
	05/10/88	1,400	10,000	3,000	19,000	66,000	--	--	--	--	--	--	--	13.03	0.00	506.59
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.11	0.00	505.51
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	12.95	0.00	506.67
	10/13/88	300	600	260	1,600	5,300	--	--	--	--	--	--	--	13.14	0.00	506.48
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	12.14	0.00	507.48
	01/12/89	260	110	270	720	5,000	--	--	--	--	--	--	--	--	--	--
	04/12/89	90	190	190	680	5,000	4.0	ND	--	--	--	--	--	12.98	0.00	506.64
	06/26/89	77	250	140	610	3,600	ND	ND	--	--	--	--	--	13.39	0.00	506.23
	10/13/89	32	81	100	530	3,500	ND	ND	--	--	--	--	--	13.40	0.00	506.22
	01/03/90	20	97	65	410	3,200	--	1	--	--	--	--	--	13.18	0.00	506.44
	05/08/90	17	140	ND	400	1,800	--	1.6	--	ND	--	ND	--	13.39	0.00	506.23
	09/29/90	56	210	260	2,100	8,000	--	1.0	ND	ND	2.4	1.6	--	13.32	0.00	506.30
	01/03/91	4	79	59	380	2,300	--	0.5	ND	ND	ND	ND	ND	13.19	0.00	506.43
	04/12/91	--	--	--	--	--	--	--	--	--	--	--	--	12.91	0.00	506.71
	09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	13.56	0.00	506.06
	04/06/92	ND	120	740	3,400	44,000	--	ND	ND	ND	ND	ND	ND	12.48	0.00	507.14
	07/28/92	220	1,100	3,000	13,000	120,000	--	--	--	--	--	--	--	13.47	0.00	506.15
	10/16/92	ND	830	3,300	9,600	570,000	--	--	--	--	--	--	--	13.95	0.00	505.67
	01/14/93*	ND	25	460	980	19,000	--	--	--	--	--	--	--	10.39	0.00	509.23
	03/26/93	30	90	290	1,100	11,000**	--	--	--	--	--	--	--	9.83	0.00	509.79
	04/22/93	29	170	640	2,400	20,000	--	--	--	--	--	--	--	11.32	0.00	508.30
	07/20,21/93	130	490	1,000	4,900	32,000**	--	--	--	--	--	--	--	14.92	TRACE	504.70
	10/20/93	290	790	2,500	7,600	77,000**	--	--	--	--	--	--	--	12.91	0.00	506.71
	01/20/94	10	86	510	29	22,000	--	--	--	--	--	--	--	12.68	0.00	506.94
C-7	03/26/86	--	--	--	--	--	--	--	--	--	--	--	--	11.67	0.00	508.63
520.30	03/15/88	98	690	120	120	8,000	--	--	--	--	--	--	--	13.48	0.00	506.82
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	13.60	0.00	506.70
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.68	0.00	505.62
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	13.43	0.00	506.87
	10/13/88	4,400	220	1,000	3,000	16,000	--	--	--	--	--	--	--	13.61	0.00	506.69
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	12.66	0.00	507.64
	01/12/89	950	47	670	640	8,000	--	--	--	--	--	--	--	--	--	--
	04/12/89	1,100	30	780	370	6,000	ND	ND	--	--	--	--	--	13.60	0.00	506.70
	06/26/89	1,300	50	600	340	6,000	ND	ND	--	--	--	--	--	13.88	0.00	506.42
	10/13/89	1,300	ND	160	150	3,900	--	ND	--	--	--	--	--	13.81	0.00	506.49
	01/03/90	1,200	13	180	200	5,600	--	1	--	--	--	--	--	13.71	0.00	506.59
	05/08/90	1,100	15	110	140	3,500	--	1.7	--	ND	--	ND	--	13.85	0.00	506.45
	09/29/90	580	ND	46	66	2,400	--	0.7	ND	ND	ND	ND	ND	13.80	0.00	506.50
	01/03/91	300	2	110	120	2,500	--	0.7	ND	ND	ND	ND	ND	13.71	0.00	506.59
	04/12/91	190	1	61	87	2,300	--	0.6	ND	ND	ND	ND	ND	13.46	0.00	506.84
	09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	14.09	0.00	506.21
	10/07/91	170	1.9	97	59	4,700	--	ND	ND	24	ND	ND	ND	--	--	--
	04/06/92	95	0.8	110	100	2,400	--	ND	ND	ND	ND	ND	ND	13.02	0.00	507.28
	07/28/92	120	3.4	110	110	2,000	--	--	--	--	--	--	--	13.76	0.00	506.54
	10/16/92	130	4.2	68	74	2,700	--	--	--	--	--	--	--	14.42	0.00	505.88
	01/14/93*	160	33	380	210	7,800	--	--	--	--	--	--	--	10.98	0.00	509.32
	03/26/93	39	9	28	15	1,400	--	--	--	--	--	--	--	10.61	0.00	509.69
	04/22/93	130	16	43	36	3,600	--	--	--	--	--	--	--	11.84	0.00	508.46
	07/20,21/93	35	16	61	87	1,900	--	--	--	--	--	--	--	15.36	SHEEN	504.94
	10/20/93	72	26	250	160	5,500	--	--	--	--	--	--	--	13.41	0.00	506.89
	01/20/94	12	12	150	69	3,600	--	--	--	--	--	--	--	13.19	0.00	507.11

Page 3 of 12

GROUNDWATER TECHNOLOGY

Source: GTI, March 6, 1994

Table 1

HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL-BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2-DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-8	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	11.78	0.00	507.96
519.74	03/15/88	360	25	10	ND	7,500	--	--	--	--	--	--	--	13.83	0.00	506.11
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	13.74	0.00	506.00
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.89	0.00	504.85
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	13.65	0.00	506.09
	10/13/88	6	5.3	ND	ND	ND	--	--	--	--	--	--	--	13.78	0.00	505.96
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	12.68	0.00	507.06
	01/12/89	37	4	1	5	ND	--	--	--	--	--	--	--	--	--	--
	04/12/89	13	ND	ND	ND	3,000	12.0	5	--	--	--	--	--	13.77	0.00	505.97
	06/26/89	14	6	ND	6	780	ND	4	--	--	--	--	--	14.03	0.00	505.71
	10/13/89	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	14.06	0.00	505.68
	01/03/90	ND	ND	1	1	910	--	1.5	--	--	--	--	--	13.74	0.00	506.00
	05/07/90	3.9	6	0.5	3.4	620	--	1.9	--	ND	--	ND	--	14.10	0.00	505.64
	09/29/90	ND	1.4	ND	ND	77	--	ND	ND	0.6	ND	ND	--	13.97	0.00	505.77
	01/03/91	2	2	ND	2	67	--	ND	ND	0.7	ND	ND	ND	13.81	0.00	505.93
	04/12/91	4	ND	ND	ND	180	--	0.6	ND	ND	ND	ND	ND	13.60	0.00	506.14
	09/04/91	1.8	4.7	0.8	4.8	140	--	ND	ND	ND	ND	ND	ND	14.14	0.00	505.60
	04/06/92	ND	ND	ND	ND	150	--	ND	ND	ND	ND	ND	ND	13.12	0.00	506.62
	07/28/92	ND	ND	ND	0.8	90	--	--	--	--	--	--	--	14.10	0.00	505.64
	10/16/92	ND	ND	ND	ND	51	--	--	--	--	--	--	--	14.57	0.00	505.17
	01/14/93*	ND	1.6	1.0	3.5	120	--	--	--	--	--	--	--	10.95	0.00	508.79
	03/26/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/22/93	ND	0.6	0.6	0.8	68**	--	--	--	--	--	--	--	12.07	0.00	507.67
	07/20,21/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	15.70	0.00	504.04
	10/20/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	13.51	0.00	506.23
	01/20/94	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	13.51	0.00	506.23
C-9	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	11.24	0.00	508.28
519.52	03/15/88	540	560	580	3,900	29,000	--	--	--	--	--	--	--	12.92	0.00	506.60
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	13.12	0.00	506.40
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.16	0.00	505.36
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	13.00	0.00	506.52
	10/13/88	57	6	20	150	2,200	--	--	--	--	--	--	--	13.13	0.00	506.39
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	12.19	0.00	507.33
	01/12/89	39	12	51	46	2,000	--	--	--	--	--	--	--	--	--	--
	04/12/89	16	20	55	240	6,000	ND	2.1	--	--	--	--	--	13.11	0.00	506.41
	04/11/89	14	25	45	290	6,000	--	ND	--	--	--	--	--	13.11	0.00	506.41
	06/26/89	37	63	140	690	3,900	ND	ND	--	--	--	--	--	13.40	0.00	506.12
	10/13/89	7	ND	26	50	1,300	ND	ND	--	--	--	--	--	13.46	0.00	506.06
	01/03/90	ND	0.7	202	37	1,500	--	1.5	--	--	--	--	--	13.30	0.00	506.22
	05/07/90	21	33	89	500	7,100	--	1.9	--	ND	--	ND	--	13.46	0.00	506.04
	09/29/90	21	3.9	31	110	1,000	--	1.0	ND	0.7	1.8	1.0	--	13.39	0.00	506.13
519.72	01/03/91	ND	ND	32	140	3,200	--	0.6	ND	ND	ND	ND	ND	13.28	0.00	506.44
	04/12/91	--	--	--	--	--	--	--	--	--	--	--	--	13.00	0.00	506.72
	09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	13.61	0.00	506.11
	04/06/92	ND	ND	33	130	2,800	--	ND	ND	ND	ND	ND	ND	12.54	0.00	507.18
	07/28/92	6.5	2.4	17	37	1,000	--	--	--	--	--	--	--	13.45	0.00	506.27
	10/16/92	ND	730	950	2,000	190,000	--	--	--	--	--	--	--	13.98	0.00	505.74
	01/14/93*	ND	ND	27	77	2,200	--	--	--	--	--	--	--	10.44	0.00	509.28
	03/26/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/22/93	60	40	68	98	7,300	--	--	--	--	--	--	--	11.43	0.00	508.29
	07/20,21/93	160	130	450	1,100	30,000**	--	--	--	--	--	--	--	15.20	0.00	504.52
	10/20/93	22	200	440	930	36,000	--	--	--	--	--	--	--	12.96	0.00	506.76
	01/20/94	55	57	27	210	12,000	--	--	--	--	--	--	--	12.84	0.00	506.88

Source: GTI, March 6, 1994

HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL-BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2-DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-10	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
520.41	03/15/88	7	ND	ND	ND	90	--	--	--	--	--	--	--	14.86	0.00	505.55
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.90	0.00	505.51
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	15.94	0.00	504.47
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	14.85	0.00	505.56
	10/13/88	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.90	0.00	505.51
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	14.83	0.00	505.58
	01/12/89	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
	04/11/89	4.8	ND	ND	ND	ND	ND	6.1	--	--	--	--	--	14.90	0.00	505.51
	06/26/89	0.7	ND	ND	1.5	ND	4.0	ND	--	--	--	--	--	15.12	0.00	505.29
	10/13/89	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	15.11	0.00	505.30
	01/03/90	ND	ND	ND	ND	ND	--	3	--	--	--	--	--	15.01	0.00	505.40
	05/07/90	ND	ND	ND	ND	ND	--	ND	--	ND	--	ND	--	15.53	0.00	504.88
	09/27/90	ND	ND	ND	ND	ND	--	ND	ND	1.2	ND	ND	--	15.20	0.00	505.21
	01/03/91	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	15.06	0.00	505.35
	04/12/91	16	ND	2.9	2.7	110	--	1	ND	ND	ND	ND	ND	14.86	0.00	505.55
	09/04/91	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	15.22	0.00	505.19
	04/06/92	ND	ND	ND	ND	57	--	1.1	ND	ND	ND	ND	ND	14.21	0.00	506.20
	07/28/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.78	0.00	505.63
	10/16/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	15.51	0.00	504.90
	01/14/93*	4.7	ND	2.3	1.6	88	--	--	--	--	--	--	--	13.44	0.00	506.97
	03/26/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	12.55	0.00	507.86
	04/22/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	13.74	0.00	506.67
	07/20,21/93	ND	ND	ND	ND	100	--	--	--	--	--	--	--	16.49	0.00	503.92
	10/20/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.64	0.00	505.77
	01/20/94	ND	ND	ND	ND	ND**	--	--	--	--	--	--	--	14.39	0.00	506.02
C-11	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	13.82	0.00	506.22
520.04	03/15/88	--	--	--	--	--	--	--	--	--	--	--	--	14.49	0.00	505.55
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.31	0.00	505.73
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	15.47	0.00	504.57
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	13.60	0.00	506.44
	10/14/88	240	33	4.7	67	2	--	--	--	--	--	--	--	14.53	0.00	505.51
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	14.10	0.00	505.94
	01/12/89	ND	0.8	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
	04/12/89	4.3	ND	ND	ND	ND	ND	ND	--	--	--	--	--	14.36	0.00	505.68
	06/26/89	2	ND	ND	ND	ND	4.0	ND	--	--	--	--	--	14.58	0.00	505.46
	10/13/89	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	14.71	0.00	505.33
	01/03/90	ND	ND	ND	0.7	ND	--	ND	--	--	--	--	--	14.61	0.00	505.43
	05/08/90	12	11	0.9	22	110	--	ND	--	ND	--	ND	--	15.53	0.00	504.51
	09/28/90	2.0	1.4	ND	3.3	ND	--	ND	ND	1.2	ND	ND	--	15.51	0.00	504.53
	01/03/91	2	ND	ND	2	ND	--	ND	ND	ND	ND	ND	1	14.63	0.00	505.41
	04/12/91	--	--	--	--	--	--	--	--	--	--	--	--	14.30	0.00	505.74
	09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	14.84	0.00	505.20
	04/06/92	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	13.56	0.00	506.48
	07/28/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.39	0.00	505.65
	10/16/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	15.79	0.00	504.25
	01/14/93*	ND	1.3	0.7	6	94	--	--	--	--	--	--	--	12.14	0.00	507.90
	03/26/93	2	ND	0.6	1	130	--	--	--	--	--	--	--	11.81	0.00	508.23
	04/22/93	0.6	ND	ND	ND	ND	--	--	--	--	--	--	--	12.94	0.00	507.10
	07/20,21/93	3	1	ND	1	1,200	--	--	--	--	--	--	--	16.48	0.00	503.56
	10/20/93	2	ND	ND	ND	ND**	--	--	--	--	--	--	--	14.46	0.00	505.58
	01/20/94	5	0.6	3	4	140	--	--	--	--	--	--	--	14.12	0.00	505.92

Source: GTI, March 6, 1994

Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL-BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2-DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-12	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	13.81	0.00	506.21
519.82	03/15/88	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.55	0.00	505.27
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.57	0.00	505.25
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	15.63	0.00	504.19
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	14.51	0.00	505.31
	10/13/88	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.60	0.00	505.22
	01/12/89	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.62	0.00	505.20
	04/11/89	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	14.61	0.00	505.21
	06/26/89	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	14.75	0.00	505.07
	10/13/89	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	14.77	0.00	505.05
	01/03/90	ND	ND	ND	0.6	ND	--	ND	--	--	--	--	--	14.85	0.00	504.97
	05/07/90	ND	ND	ND	ND	ND	--	ND	--	ND	--	ND	--	14.75	0.00	505.07
	09/27/90	ND	ND	ND	ND	ND	--	ND	ND	1.2	ND	ND	--	14.61	0.00	505.21
	01/03/91	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	14.70	0.00	505.12
	04/12/91	--	--	--	--	--	--	--	--	--	--	--	--	14.52	0.00	505.30
	09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	14.83	0.00	504.99
	04/06/92	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	13.81	0.00	506.01
	07/28/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.32	0.00	505.50
	10/16/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	15.12	0.00	504.70
	01/14/93*	ND	ND	ND	1.7	65	--	--	--	--	--	--	--	13.23	0.00	506.59
	03/26/93	0.9	ND	ND	ND	ND	--	--	--	--	--	--	--	12.20	0.00	507.62
	04/22/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	13.21	0.00	506.61
	07/20,21/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	16.71	0.00	503.11
	10/20/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.19	0.00	505.63
	01/20/94	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.05	0.00	505.77
C-13	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	12.95	0.00	509.29
522.24	03/15/88	2	ND	9	3	250	--	--	--	--	--	--	--	14.82	0.00	507.42
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	15.03	0.00	507.21
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	16.10	0.00	506.14
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	14.73	0.00	507.51
	10/13/88	1.9	ND	ND	ND	ND	--	--	--	--	--	--	--	14.91	0.00	507.33
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	14.10	0.00	508.14
	01/12/89	ND	0.6	4	ND	ND	--	--	--	--	--	--	--	--	--	--
	04/10/89	ND	ND	6	ND	ND	ND	ND	--	--	--	--	--	14.99	0.00	507.25
	06/26/89	0.9	ND	ND	ND	ND	ND	ND	--	--	--	--	--	15.16	0.00	507.08
	10/13/89	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	15.23	0.00	507.01
	01/03/90	ND	ND	0.5	0.6	ND	--	ND	--	--	--	--	--	15.15	0.00	507.09
	05/08/90	ND	ND	ND	ND	ND	--	ND	--	ND	--	ND	--	15.02	0.00	507.22
	09/27/90	ND	0.6	ND	ND	ND	--	ND	ND	1.7	ND	ND	--	15.11	0.00	507.13
	01/03/91	ND	ND	ND	0.6	ND	--	ND	ND	ND	ND	ND	ND	15.08	0.00	507.16
	04/12/91	--	--	--	--	--	--	--	--	--	--	--	--	14.77	0.00	507.47
	09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	15.43	0.00	506.81
	04/06/92	ND	ND	ND	ND	66	--	ND	ND	ND	ND	ND	ND	14.43	0.00	507.81
	07/28/92	5.2	ND	ND	1.1	60	--	--	--	--	--	--	--	15.37	0.00	506.87
	10/16/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	15.87	0.00	506.37
	01/14/93*	ND	ND	ND	1.3	100	--	--	--	--	--	--	--	12.83	0.00	509.41
	03/26/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	12.59	0.00	509.65
	04/22/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	13.16	0.00	509.08
	07/20,21/93	4	13	2	7	99	--	--	--	--	--	--	--	16.52	0.00	505.72
	10/20/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	15.13	0.00	507.11
	01/20/94	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.65	0.00	507.59

Source: GTI, March 6, 1994

GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL-BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2-DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-14	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
520.08	03/15/88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/10/88	13,000	29,000	2,700	18	120,000	--	--	--	--	--	--	--	--	--	--
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	13.39	0.00	506.69
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	14.65	0.00	505.43
	10/13/88	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	13.47	0.00	506.61
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	13.58	0.00	506.50
	01/12/89	ND	ND	ND	ND	NS	--	--	--	--	--	--	--	13.00	0.00	507.08
	04/12/89	ND	ND	ND	ND	NS	ND	ND	--	--	--	--	--	--	--	--
	06/26/89	14,000	25,000	3,400	26,000	140,000	--	30	--	--	--	--	--	13.47	0.00	506.61
	10/13/89	12,000	16,000	1,600	13,000	86,000	--	--	--	--	--	--	--	13.80	0.00	506.28
	01/03/90	9,500	16,000	1,800	13,000	120,000	--	25	3	--	--	--	--	13.62	0.00	506.46
	01/04/90	3,900	8,100	1,200	7,700	76,000	--	18	1	--	--	--	--	13.91	0.00	506.17
	05/08/90	7,500	17,000	1,400	14,000	62,000	--	13	--	ND	--	ND	--	13.91	0.00	506.17
	09/27/90	--	--	--	--	--	--	--	--	--	--	--	--	13.89	0.00	506.19
	01/03/91	--	--	--	--	--	--	--	--	--	--	--	--	13.78	0.00	506.30
	04/12/91	750	3,800	720	9,200	60,000	--	ND	ND	ND	ND	ND	ND	13.72	0.00	506.36
	09/04/91	2,800	11,000	1,300	13,000	110,000	--	--	--	--	--	--	--	12.97	0.00	507.11
	04/06/92	190	1,800	440	5,100	41,000	--	ND	ND	ND	ND	ND	ND	13.84	0.00	506.24
	07/28/92	2,300	9,700	1,800	15,000	130,000	--	--	--	--	--	--	--	12.44	0.00	507.64
	10/16/92	--	--	--	--	--	--	--	--	--	--	--	--	13.70	0.00	506.38
	01/14/93*	220	790	220	2,700	27,000	--	--	--	--	--	--	--	14.36	0.00	505.70
	03/26/93	330	1,600	460	4,000	23,000**	--	--	--	--	--	--	--	8.80	0.00	511.28
	04/22/93	840	2,300	130	3,500	17,000	--	--	--	--	--	--	--	9.12	0.00	510.96
TRAFFIC	07/20,21/93	--	--	--	--	--	--	--	--	--	--	--	--	12.10	SHEEN	507.98
#	10/20/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/20/94	130	790	270	2,400	22,000	--	--	--	--	--	--	--	14.31	0.00	505.77
C-15	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	12.14	0.00	507.94
522.41	03/15/88	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	13.14	0.00	509.27
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	15.13	0.00	507.28
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	15.40	0.00	507.01
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	16.49	0.00	505.92
	10/13/88	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	15.17	0.00	507.24
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	15.33	0.00	507.08
	01/12/89	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	13.70	0.00	508.71
	04/12/89	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	06/26/89	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	15.34	0.00	507.07
	10/13/89	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	15.72	0.00	506.69
	01/03/90	ND	ND	ND	ND	ND	--	ND	--	--	--	--	--	15.96	0.00	506.45
	05/08/90	ND	ND	ND	ND	ND	--	ND	--	ND	--	ND	--	15.42	0.00	506.99
	09/27/90	ND	ND	ND	ND	ND	--	ND	ND	2.9	ND	ND	--	15.62	0.00	506.79
	01/03/91	ND	ND	ND	0.6	ND	--	ND	ND	ND	ND	ND	ND	15.59	0.00	506.82
	04/12/91	--	--	--	--	--	--	--	--	--	--	--	--	15.50	0.00	506.91
	09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	15.21	0.00	507.20
	04/06/92	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	15.90	0.00	506.51
	07/28/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.88	0.00	507.53
	10/15/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	15.82	0.00	506.59
	01/14/93*	ND	1.9	0.8	5.1	61	--	--	--	--	--	--	--	16.25	0.00	506.16
	03/26/93	ND	ND	ND	1	ND	--	--	--	--	--	--	--	12.48	0.00	509.93
	04/22/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	12.67	0.00	509.74
	07/20,21/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	13.60	0.00	508.81
	10/20/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	16.87	0.00	505.54
	01/20/94	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	15.24	0.00	507.17
														15.01	0.00	507.40

Source: GTI, March 6, 1994

GROUNDWATER TECHNOLOGY

Page 8 of 12

Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL-BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2-DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-16	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
519.68	03/15/88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/10/88	1,000	73	140	180	4,500	--	--	--	--	--	--	--	13.78	0.00	505.90
	08/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.88	0.00	504.80
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	13.69	0.00	505.99
	10/13/88	16	5.5	ND	16	1,600	--	--	--	--	--	--	--	13.80	0.00	505.88
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	13.45	0.00	506.23
	01/12/89	360	11	78	51	1,000	--	--	--	--	--	--	--	--	--	--
	04/11/89	130	4	21	19	15,600	ND	8	--	--	--	--	--	13.78	0.00	505.90
	06/26/89	170	8	37	43	1,300	ND	ND	--	--	--	--	--	14.02	0.00	505.66
	10/13/89	20	ND	7	ND	1,000	ND	ND	--	--	--	--	--	14.01	0.00	505.67
	01/03/90	150	3	41	24	1,300	--	5	--	--	--	--	--	13.97	0.00	505.71
	05/07/90	49	4.4	29	13	480	--	4.5	--	ND	--	ND	--	14.45	0.00	505.23
	09/29/90	18	2.1	11	8.0	360	--	1.8	ND	ND	ND	ND	--	14.32	0.00	505.36
	01/03/91	12	ND	6	6	230	--	2	ND	0.6	ND	ND	ND	13.96	0.00	505.72
	04/12/91	--	--	--	--	--	--	--	--	--	--	--	--	13.74	0.00	505.94
	09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	14.22	0.00	505.46
	04/06/92	30	ND	14	12.0	360	--	1.0	ND	ND	ND	ND	ND	13.18	0.00	506.50
	07/28/92	31	ND	6.6	16	210	--	--	--	--	--	--	--	13.93	0.00	505.75
	10/16/92	11	ND	5.1	3.4	140	--	--	--	--	--	--	--	14.92	0.00	504.76
	01/14/93*	24	ND	36	21	740	--	--	--	--	--	--	--	11.81	0.00	507.87
	03/26/93	22	2	18	10	730	--	--	--	--	--	--	--	11.36	0.00	508.32
	04/22/93	46	ND	24	6	850	--	--	--	--	--	--	--	12.30	0.00	507.38
TRAFFIC	07/20,21/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/20/93	18	2	16	17	290**	--	--	--	--	--	--	--	14.00	0.00	505.68
	01/20/94	10	1	12	9	360	--	--	--	--	--	--	--	13.48	0.00	506.20

Source: GTI, March 6, 1994

GROUNDWATER TECHNOLOGY

Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL-BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2-DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-17	03/28/88	--	--	--	--	--	--	--	--	--	--	--	--	13.48	0.00	507.34
520.82	03/15/88	--	--	--	--	--	--	--	--	--	--	--	--	14.76	0.00	506.06
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.77	0.00	506.05
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	15.84	0.00	504.98
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	14.63	0.00	506.19
	10/13/88	15	900	760	5,500	270,000	--	--	--	--	--	--	--	14.83	0.00	505.99
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	14.78	0.00	506.04
	01/12/89	ND	490	2,100	6,700	190,000	--	--	--	--	--	--	--	--	--	--
	04/11/89	30	150	320	1,000	27,000	6.0	ND	--	--	--	--	--	14.83	0.00	505.99
	06/26/89	50	390	660	2,000	20,000	ND	ND	--	--	--	--	--	15.03	0.00	505.79
	06/26/89	40	420	740	2,200	27,000	--	ND	--	--	--	--	--	15.03	0.00	505.79
	10/13/89	ND	46	250	480	17,000	ND	ND	--	--	--	--	--	15.02	0.00	505.80
	01/03/90	ND	29	120	210	14,000	--	ND	--	--	--	--	--	15.10	0.00	505.72
	05/08/90	25	130	210	470	9,500	--	ND	--	ND	--	ND	--	15.12	0.00	505.70
	09/29/90	ND	ND	ND	ND	ND	--	ND	ND	ND	1.9	ND	--	14.99	0.00	505.83
	09/29/90	ND	3.4	ND	ND	ND	--	ND	ND	1.8	1.9	ND	--	14.99	0.00	505.83
	01/03/91	ND	28	56	140	3,700	--	ND	ND	1.8	1.9	ND	ND	14.92	0.00	505.90
	01/03/91	ND	10	59	150	6,600	--	ND	ND	ND	ND	ND	ND	14.92	0.00	505.90
	04/12/91	ND	5	47	120	6,600	--	ND	ND	ND	ND	ND	ND	14.71	0.00	506.11
	04/12/91	ND	11	48	120	4,400	--	ND	ND	ND	ND	ND	ND	14.71	0.00	506.11
	09/04/91	ND	27	49	79	5,800	--	ND	ND	ND	ND	ND	ND	15.17	0.00	505.65
	09/04/91	ND	21	36	61	4,100	--	ND	ND	ND	ND	ND	ND	15.17	0.00	505.65
	04/06/92	ND	5.8	27	29	2,300	--	ND	ND	ND	ND	ND	ND	14.14	0.00	506.68
	07/28/92	99	180	170	430	11,000	--	--	--	--	--	--	--	15.18	0.00	505.64
	10/16/92	ND	4,800	3,900	6,600	1,200,000	--	--	--	--	--	--	--	15.76	0.00	505.06
	01/14/93*	9.3	9.1	23	34	3,500	--	--	--	--	--	--	--	13.44	0.00	507.38
	03/26/93	ND	19	20	35	3,700**	--	--	--	--	--	--	--	12.46	0.00	508.36
	04/22/93	16	68	44	97	8,900	--	--	--	--	--	--	--	13.30	0.00	507.52
	07/20,21/93	5	35	33	62	4,200	--	--	--	--	--	--	--	17.21	0.00	503.61
	10/20/93	5	12	43	64	4,500	--	--	--	--	--	--	--	15.09	0.00	505.73
	01/20/94	4	42	24	73	1,900	--	--	--	--	--	--	--	14.47	0.00	506.35

Source: GTI, March 6, 1994

GROUNDWATER TECHNOLOGY

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL-BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2-DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-18	03/26/86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
518.96	03/15/88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	14.89	0.00	504.07
	10/13/88	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	13.79	0.00	505.17
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	13.86	0.00	505.10
	01/12/89	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	13.94	0.00	505.02
	04/11/89	ND	ND	ND	ND	ND	ND	3.6	--	--	--	--	--	--	0.00	518.96
	06/26/89	ND	ND	ND	ND	ND	ND	3.1	--	--	--	--	--	14.86	0.00	504.10
	10/13/89	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	14.02	0.00	504.94
	01/03/90	ND	ND	ND	ND	ND	--	1	--	--	--	--	--	15.06	0.00	503.90
	05/07/90	ND	ND	ND	ND	ND	--	ND	--	ND	--	ND	--	14.07	0.00	504.89
	09/27/90	ND	ND	ND	ND	ND	--	ND	ND	0.6	ND	ND	--	14.01	0.00	504.95
	01/03/91	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	13.91	0.00	505.05
	04/12/91	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	13.98	0.00	504.98
	09/04/91	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	13.83	0.00	505.13
	04/06/92	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	14.20	0.00	504.76
	07/28/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	13.07	0.00	505.89
	10/16/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	13.55	0.00	505.41
	01/14/93*	ND	ND	ND	1.6	56	--	--	--	--	--	--	--	14.38	0.00	504.58
	03/26/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	12.46	0.00	506.50
	04/22/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	11.46	0.00	507.50
	07/20,21/93	ND	0.5	ND	ND	92	--	--	--	--	--	--	--	12.58	0.00	506.38
PAVED OVER	10/20/93	--	--	--	--	--	--	--	--	--	--	--	--	15.64	0.00	503.32
PAVED OVER	01/20/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Source: GTI, March 6, 1994

GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL-BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2-DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1-TCA (ppb)	1,1-DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-19	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
520.99	03/15/88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/10/88	1,400	360	350	1,300	16	--	--	--	--	--	--	--	--	--	--
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	15.23	0.00	505.76
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	16.58	0.00	504.41
	10/13/88	8.3	4.7	4.4	ND	ND	--	--	--	--	--	--	--	15.19	0.00	505.80
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	15.27	0.00	505.72
	01/12/89	5	4	ND	ND	ND	--	--	--	--	--	--	--	15.20	0.00	505.79
	04/11/89	1.8	ND	ND	ND	ND	ND	13	--	--	--	--	--	--	--	--
	04/11/89	1.2	ND	0.6	0.6	500	--	14	--	--	--	--	--	15.24	0.00	505.75
	06/26/89	2.5	ND	ND	ND	500	ND	26	--	--	--	--	--	15.24	0.00	505.75
	10/13/89	ND	ND	ND	ND	540	ND	13	13	--	--	--	--	15.44	0.00	505.55
	01/03/90	1.2	0.7	1.3	0.9	ND	--	11	--	--	--	--	--	15.47	0.00	505.52
	05/07/90	ND	ND	ND	ND	ND	--	4.6	--	ND	--	ND	--	15.45	0.00	505.54
	09/28/90	ND	ND	ND	ND	ND	--	ND	ND	1.2	ND	ND	--	15.68	0.00	505.31
	01/03/91	ND	ND	ND	ND	66	--	1	ND	ND	ND	ND	0.9	15.52	0.00	505.47
	04/12/91	--	--	--	--	--	--	--	--	--	--	--	--	15.56	0.00	505.43
	09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	15.20	0.00	505.79
	04/06/92	0.7	ND	1.0	ND	110	--	1.9	ND	ND	ND	ND	ND	15.60	0.00	505.39
	07/28/92	1.4	ND	1.0	4.2	ND	--	--	--	--	--	--	--	14.58	0.00	506.41
	10/16/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	15.26	0.00	505.73
	01/14/93*	1.1	ND	0.9	0.9	100	--	--	--	--	--	--	--	16.00	0.00	504.99
	03/26/93	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	13.69	0.00	507.30
	04/22/93	0.6	1	1	1	250**	--	--	--	--	--	--	--	12.96	0.00	508.03
	07/20,21/93	ND	ND	0.8	2	390**	--	--	--	--	--	--	--	14.18	0.00	506.81
	10/20/93	ND	ND	ND	ND	ND**	--	--	--	--	--	--	--	16.58	0.00	504.41
	01/20/94	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	15.23	0.00	505.76
														14.84	0.00	506.15

Explanation
Elevations are expressed as feet above mean sea level.
TOC = Top of casing
WTE = Water table elevation (well elevation - (DTW-(SPT x 0.8))
DTW = Depth to water
SPT = Separate-phase hydrocarbon thickness
TPH-G = Total Petroleum Hydrocarbons as Gasoline (ppb)
TOG = Total Oil & Grease (EPA Method 503D & 503E)
* = Rinsate sample contaminated; resampled 03/26/93
** = Uncategorized compound not included in gasoline hydrocarbon total
*** = Hydrocarbon pattern uncharacteristic of fresh gasoline
# = Not enough water to purge and sample

PCE = Tetrachloroethene
1,2-DCA = 1,2-Dichloroethane
MC = Methylene Chloride
TCA = 1,1,1-Trichloroethane
1,1-DCA = 1,1-Dichloroethane
ND = Not detected at or above the minimum quantitation limit (MQL)
-- = Not sampled, not monitored, inaccessible
OTHER = 5 ppb Carbon Disulfide detected in C-1 on 10/13/89
3 ppb Vinyl Chloride detected in C-14 on 1/3/90
1 ppb Vinyl Chloride detected in C-14 on 1/4/90
13 ppb Carbon Disulfide detected in C-19 on 10/13/89

GARTAB1.WK1

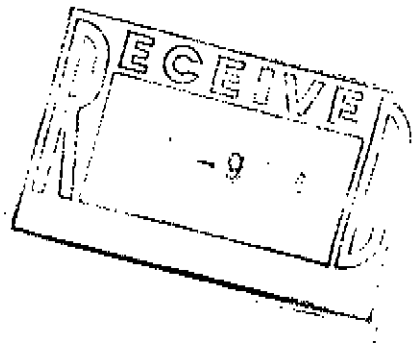
Source: GTI, March 6, 1994

GROUNDWATER TECHNOLOGY

ATTACHMENT D

LABORATORY REPORTS
FROM SUPPLEMENTAL ASSESSMENT WORK

GOLDEN STATE/CAS
LABORATORIES, INC.



November 4, 1994

Mike Noll
EMCON Northwest
18912 N. Creek Pkwy.
Bothell, WA 98011

Re: **TOSCO #11128/Project #0952-041.02**

Dear Mike:

Enclosed are the results of the samples submitted to our lab on October 26, 1994. For your reference, these analyses have been assigned our service request number L943337.

All analyses were performed in accordance with our laboratory's quality assurance program. Golden State / CAS is certified for environmental analyses by the California Department of Health Services (Certificate # 1296/Expiration - December 1994).

Please call if you have any questions.

Respectfully submitted,

Golden State / CAS Laboratories, Inc.

Elaine R. Thomas

Elaine R. Thomas
Project Chemist

ET/lb

6925 CANOGA AVENUE ■ CANOGA PARK, CA 91303 ■ 818 587-5550 ■ FAX 818 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	EMCON Northwest	**Service Request:**	L943337
Project:	TOSCO #11128/#0952-041.02	**Date Collected:**	10/21/94
Sample Matrix:	Water	**Date Received:**	10/26/94
		Date Extracted:	NA

BTEX and TPH as Gasoline
EPA Methods 5030/8020/Modified 8015/California DHS LUFT Method

Analyte:	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH as Gasoline
Units:	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)
Method Reporting Limit:	0.5	0.5	0.5	0.5	50

Sample Name	Lab Code	Date Analyzed					
11128-HP1-W	L943337-001	10/27/94	ND	ND	0.8	4	ND
11128-HP3-W	L943337-002	10/27/94	ND	ND	ND	ND	ND
11128-BLK-W	L943337-003	10/27/94	ND	ND	ND	ND	ND
Method Blank	L943337-MB	10/27/94	ND	ND	ND	ND	ND

NA Not Applicable
ND None Detected at or above the method reporting limit.

Approved By: Elaine R. Thomas Date: 11-4-94

6925 CANOGA AVENUE ■ CANOGA PARK, CA 91303 ■ 818 587-5550 ■ FAX 818 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	EMCON Northwest	**Service Request:**	L943337
Project:	TOSCO #11128/#0952-041.02	**Date Collected:**	10/21/94
Sample Matrix:	Soil	**Date Received:**	10/26/94
		Date Extracted:	NA

BTEX and TPH as Gasoline
EPA Methods 5030/8020/Modified 8015/California DHS LUFT Method

Analyte:	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH as Gasoline
Units:	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Method Reporting Limit:	0.005	0.005	0.005	0.005	0.1

Sample Name	Lab Code	Date Analyzed					
11128-HP1-5-10-10.5	L943337-004	10/27/94	ND	ND	ND	ND	ND
11128-HP1-5-13.5-14	L943337-005	10/27/94	ND	ND	ND	ND	ND
128-HP2-5-3-3.5	L943337-006	10/27/94	ND	ND	ND	ND	ND
11128-HP2-5-6.5-7	L943337-007	10/27/94	ND	ND	ND	ND	ND
11128-HP3-5-10-10.5	L943337-008	10/27/94	ND	ND	ND	ND	ND
11128-HP3-5-13.5-14	L943337-009	10/27/94	ND	ND	ND	ND	ND
11128-TD1-0.5	L943337-010	10/29/94	ND	0.006	ND	0.028	0.4
11128-TD2-0.5	L943337-011*	10/29/94	<0.05	<0.05	<0.05	0.17	35
11128-TD3-0.5	L943337-012*	10/29/94	<0.05	0.14	0.11	0.80	79
11128-TD4-0.5	L943337-013*	10/29/94	<0.05	<0.05	<0.05	0.25	47
Method Blank	L943337-MB	10/27/94	ND	ND	ND	ND	ND

NA Not Applicable
ND None Detected at or above the method reporting limit.
* MRLs are elevated because of matrix interferences and because the samples required diluting.

Approved By: Elaine R. Thomas Date: 11-4-94

6925 CANOGA AVENUE ■ CANOGA PARK, CA 91303 ■ 818 587-5550 ■ FAX 818 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	EMCON Northwest	**Service Request:**	L943337
Project:	TOSCO #11128/#0952-041.02	**Date Collected:**	10/21/94
Sample Matrix:	Water	**Date Received:**	10/26/94
		Date Extracted:	10/28/94
		Date Analyzed:	11/1/94

Hydrocarbon Scan
California DHS LUFT Method

Analyte:	Mineral Spirits	Jet Fuel	Kerosene	Diesel	Hydraulic Oil
Units:	mg/L (ppm)	mg/L (ppm)	mg/L (ppm)	mg/L (ppm)	mg/L (ppm)
Method Reporting Limit:	1	1	1	1	5

Sample Name	Lab Code	Date Analyzed					
11128-HP1-W	L943337-001	11/1/94	ND	ND	ND	ND	ND
11128-HP3-W	L943337-002	11/1/94	ND	ND	ND	ND	ND
Method Blank	L943337-MB	11/1/94	ND	ND	ND	ND	ND

NA Not Applicable
ND None Detected at or above the method reporting limit.

Approved By: Elaine R. Thomas Date: 11-4-94

5Abog_2/090794
L943337.XLS - 8015cs 11/4/94

6925 CANOGA AVENUE ■ CANOGA PARK, CA 91303 ■ 818 587-5550 ■ FAX 818 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	EMCON Northwest	**Service Request:**	L943337
Project:	TOSCO #11128/#0952-041.02	**Date Collected:**	10/21/94
Sample Matrix:	Soil	**Date Received:**	10/26/94
		Date Extracted:	10/27/94
		Date Analyzed:	11/1/94

Hydrocarbon Scan
California DHS LUFT Method

Analyte:	Mineral Spirits	Jet Fuel	Kerosene	Diesel	Hydraulic Oil
Units:	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Method Reporting Limit:	1	1	1	1	5

Sample Name	Lab Code	Date Analyzed					
11128-HP1-5-10-10.5	L943337-004	10/30/94	ND	ND	ND	ND	ND
11128-HP1-5-13.5-14	L943337-005	10/31/94	ND	ND	ND	ND	ND
128-HP2-5-3-3.5	L943337-006	10/31/94	ND	ND	ND	ND	ND
11128-HP2-5-6.5-7	L943337-007	10/31/94	ND	ND	ND	ND	ND
11128-HP3-5-10-10.5	L943337-008	10/31/94	ND	ND	ND	ND	ND
11128-HP3-5-13.5-14	L943337-009	10/31/94	ND	ND	ND	ND	ND
11128-TD1-0.5	L943337-010	10/31/94	ND	ND	ND	140	ND
11128-TD2-0.5	L943337-011	10/31/94	ND	ND	ND	360	ND
11128-TD3-0.5	L943337-012	10/31/94	ND	ND	ND	200	ND
11128-TD4-0.5	L943337-013	10/31/94	ND	ND	ND	290	ND
Method Blank	L943337-MB	10/27/94	ND	ND	ND	ND	ND

NA Not Applicable
ND None Detected at or above the method reporting limit.

Approved By: Elaine L. Thomas Date: 11-4-94

6925 CANOGA AVENUE ■ CANOGA PARK, CA 91303 ■ 818 587-5550 ■ FAX 818 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	EMCON Northwest	**Service Request:**	L943337
Project:	TOSCO #11128/#0952-041.02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	NA

Surrogate Recovery Summary
BTEX and TPH as Gasoline
EPA Methods 5030/8020/Modified 8015/California DHS LUFT Method

Sample Name	Lab Code	Percent Recovery 4-Bromofluorobenzene	Percent Recovery *a,a,a*-Trifluorotoluene
11128-HP1-W	L943337-001	116	93
11128-HP3-W	L943337-002	111	86
11128-BLK-W	L943337-003	113	87
Method Blank	L943337-MB	115	91

CAS Acceptance Limits:	50-130	60-120

NA Not Applicable

Approved By: Elaine R. Thomas Date: 11.4.94

6925 CANOGA AVENUE ■ CANOGA PARK, CA 91303 ■ 818 587-5550 ■ FAX 818 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Northwest
Project: TOSCO #11128/#0952-041.02
Sample Matrix: Soil

Service Request: L943337
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: NA

Surrogate Recovery Summary
BTEX and TPH as Gasoline
EPA Methods 5030/8020/Modified 8015/California DHS LUFT Method

Sample Name	Lab Code	Percent Recovery 4-Bromofluorobenzene	Percent Recovery *a,a,a*-Trifluorotoluene
11128-HP1-5-10-10.5	L943337-004	78	90
11128-HP1-5-13.5-14	L943337-005	78	93
11128-HP2-5-3-3.5	L943337-006	71	94
11128-HP2-5-6.5-7	L943337-007	*	74
11128-HP3-5-10-10.5	L943337-008	80	96
11128-HP3-5-13.5-14	L943337-009	76	84
11128-TD1-0.5	L943337-010	60	93
11128-TD2-0.5	L943337-011	58	86
11128-TD3-0.5	L943337-012	69	101
11128-TD4-0.5	L943337-013	59	85
Method Blank	L943337-MB	99	120

CAS Acceptance Limits: 50-130 60-120

NA Not Applicable
* 4-Bromofluorobenzene outside acceptance limits.
Trifluorotoluene is within limits, therefore data was approved.

Approved By: Elaine R Thomas Date: 11-4-94

6925 CANOGA AVENUE ■ CANOGA PARK, CA 91303 ■ 818 587-5550 ■ FAX 818 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Northwest
Project: TOSCO #11128/#0952-041.02
Sample Matrix: Water

Service Request: L943337
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: NA

Surrogate Recovery Summary
Hydrocarbon Scan
California DHS LUFT Method

Sample Name	Lab Code	Percent Recovery *p*-Terphenyl
11128-HP1-W	L943337-001	87
11128-HP3-W	L943337-002	91
Method Blank	L943337-MB	99

CAS Acceptance Limits: 50-140

NA Not Applicable

Approved By: Elaine R. Thomas Date: 11.9.94

SUR1/062994
L943337.XLS - 8015sras 11/4/94

6925 CANOGA AVENUE ■ CANOGA PARK, CA 91303 ■ 818 587-5550 ■ FAX 818 587-5555

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	EMCON Northwest	**Service Request:**	L943337
Project:	TOSCO #11128/#0952-041.02	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Extracted:	NA
		Date Analyzed:	NA

Surrogate Recovery Summary
Hydrocarbon Scan
California DHS LUFT Method

Sample Name	Lab Code	Percent Recovery *p*-Terphenyl
11128-HP1-5-10-10.5	L943337-004	57
11128-HP1-5-13.5-14	L943337-005	61
11128-HP2-5-3-3.5	L943337-006	65
11128-HP2-5-6.5-7	L943337-007	58
11128-HP3-5-10-10.5	L943337-008	50
11128-HP3-5-13.5-14	L943337-009	52
11128-TD1-0.5	L943337-010	*
11128-TD2-0.5	L943337-011	66
11128-TD3-0.5	L943337-012	*
11128-TD4-0.5	L943337-013	*
Method Blank	L943337-MB	58

CAS Acceptance Limits: 50-140

NA Not Applicable

* Not Applicable because of the sample matrix. The gas chromatogram showed target components that interfered with determination of the surrogate.

Approved By: Elaine R. Thomas Date: 11-4-94

6925 CANOGA AVENUE ■ CANOGA PARK, CA 91303 ■ 818 587-5550 ■ FAX 818 587-5555

Columbia Analytical Services, Inc.

1921 Ringwood Ave. • San Jose, CA 95131 • (408) 437-2400, FAX (408)437-9356

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

L943337

DATE 10/21/94 PAGE 1 OF 4

PROJECT NAME TOSCO 11128 #0952-041.02

PROJECT MNGR. Lynn Gallagher

COMPANY/ADDRESS EMCON - San Jose

PHONE (408)453-7300

SAMPLERS SIGNATURE Daniel Galesso

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	NUMBER OF CONTAINERS	ANALYSIS REQUESTED	REMARKS
11128-HP1-W	10/21/94		L943337-1	water	5	X X	
11128-HP3-W			2	water	5	X X	
11128-BLK-W			3	water	2	X	
11128-HP1-S-2.5-3				soil	1		Hold
11128-HP1-S-3-3.5				soil	1		Hold
11128-HP1-S-6-6.5				soil	1		Hold
11128-HP1-S-6.5-7				soil	1		Hold
11128-HP1-S-9.5-10				soil	1		Hold
11128-HP1-S-10-10.5			4	soil	1	X X	~~Hold~~
11128-HP1-S-13-13.5				soil	1		~~Hold~~ Hold

ANALYSIS REQUESTED: Base/Neut/Acid Organics GC/MS 625/8270; Volatile Organics GC/MS 624/8240; Halogenated or Aromatic Volatiles 601/8010 ☐ 602/8020 ☐; TPH as Gas/BTEX DHS LUFT/8015; TPH as Diesel/FREPC DHS LUFT; TRPH - 418.1; Oil and Grease Method; Metals (total or dissolved); Lead Balance; pH, Cond, Cl, SO4, PO4, F, NO3 Alk, TDS, TSS (circle); N-to-N, COD, Total-P, TKN, NO3 (circle); Total Organic Carbon TOC 415/9060; Total Phenols

RELINQUISHED BY:	RECEIVED BY:	TURNAROUND REQUIREMENTS:	REPORT REQUIREMENTS	INVOICE INFORMATION:	SAMPLE RECEIPT:
Signature: Daniel Galesso	Signature:	___ 24 hr ___ 48 hr ✓ 5 day	✓ I. Routine Report	P.O. #:	Shipping VIA:
Printed Name: Daniel Galesso	Printed Name:	___ Standard (~ 10-15 working days)	___ II. Report (includes DUP,MS, MSD, as required, may be charged as samples)	Bill to:	Shipping #:
Firm: EMCON Assoc.	Firm:	___ Provide Verbal Preliminary Results	___ III. Data Validation Report (includes All Raw Data)		Condition:
Date/Time: 10/21/94 5:30pm	Date/Time:	___ Provide FAX Preliminary Results	___ IV. CLP Deliverable Report		Lab No.:
		Requested Report Date:			

RELINQUISHED BY:	RECEIVED BY:	SPECIAL INSTRUCTIONS/COMMENTS:
Signature: [illegible]	Signature: Elaine R Thomas	
Printed Name: JOHN [illegible]	Printed Name: Elaine Thomas	
Firm: CAS/KF	Firm: GS/CAS	
Date/Time: 10/25/94 1600	Date/Time: 10/26/94 FED EX	

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

400-05

Columbia Analytical Services, Inc.

1286

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1921 Ringwood Ave. • San Jose, CA 95131 • (408) 437-2400, FAX (408)437-9356

DATE 10/21/94 PAGE 2 OF 4

PROJECT NAME TOSCO 11128 #0952-041.02

PROJECT MNGR. Lynn Gallagher

COMPANY/ADDRESS EMCON - San Jose

PHONE (408) 453-7300

SAMPLERS SIGNATURE Daniel Galasso

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	NUMBER OF CONTAINERS	ANALYSIS REQUESTED	REMARKS
11128-HP1-S-13.5-14	10/21/94		L943337-5	Soil	1		Hold
11128-HP1-S-16.5-17					1		Hold
11128-HP1-S-17-17.5					1	MS. 10/24/94	Do not Analyze
11128-HP1-S-20-20.5					1		Hold
11128-HP1-S-20.5-21					1	MS 10/24/94	Do not Analyze
11128-HP2-S-2.5-3					1		Hold
11128-HP2-S-3-3.5			6		1		
11128-HP2-S-6-6.5					1		Hold
11128-HP2-S-6.5-7			7		1		
11128-HP3-S-2.5-3	↓			↓	1		Hold

ANALYSIS REQUESTED: Base/Neu/Acid Organics GC/MS 625/8270; Volatile Organics GC/MS 624/8240; Halogenated or Aromatic Volatiles 601/8010 ☐ 602/8020 ☐; 418.1 as Gas&BTEX DHS LUFT/8020; 418.1 as Diesel/BHC DHS LUFT; TRPH - 418.1; Oil and Grease Method; Metals (total or dissolved) List Below; pH, Cond, Cl, SO4, PO4, F, NO2, Alk, TDS, TSS (circle); NH3-N, COD, Total-P, TKN, NO3 (circle); Total Organic Carbon TOC 415.2/9060; Total Phenols

RELINQUISHED BY:	RECEIVED BY:	TURNAROUND REQUIREMENTS:	REPORT REQUIREMENTS	INVOICE INFORMATION:	SAMPLE RECEIPT:
Signature: Daniel Galasso	Signature:	___ 24 hr ___ 48 hr ✓ 5 day	✓ I. Routine Report	P.O. #:	Shipping VIA:
Printed Name: Daniel Galasso	Printed Name:	✓ Standard (~ 10-15 working days)	___ II. Report (includes DUP,MS, MSD, as required, may be charged as samples)	Bill to:	Shipping #:
Firm: Emcon Assoc.	Firm:	___ Provide Verbal Preliminary Results	___ III. Data Validation Report (includes All Raw Data)		Condition:
Date/Time: 10/24/94 5:30pm	Date/Time:	___ Provide FAX Preliminary Results	___ IV. CLP Deliverable Report		Lab No.:
		Requested Report Date:			

RELINQUISHED BY:	RECEIVED BY:	SPECIAL INSTRUCTIONS/COMMENTS:
Signature: John Lyons	Signature: Elaine R. Thomas	
Printed Name: John Lyons	Printed Name: Elaine R Thomas	
Firm: CH2M	Firm: CAS/GS	
Date/Time: 10/25/94 1600	Date/Time: 10/26/94 FedEx	

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

400-05

Columbia Analytical Services, Inc.

1921 Ringwood Ave. • San Jose, CA 95131 • (408) 437-2400, FAX (408)437-9356

1286

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 10/21/94 PAGE 3 OF 4

PROJECT NAME TOSCO 11128 #0952-041.02

PROJECT MNGR. Lynn Gallagher

COMPANY/ADDRESS EMCON - San Jose

PHONE (408) 453-7300

SAMPLERS SIGNATURE Daniel Galasso

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	NUMBER OF CONTAINERS	ANALYSIS REQUESTED	REMARKS
11128-HP3-S-3-3.5	10/21/94			soil	1		Hold
11128-HP3-S-6-6.5					1		Hold
11128-HP3-S-6.5-7					1		Hold
11128-HP3-S-7.5-10					1		Hold
11128-HP3-S-10-10.5			9443337-8		1	X X	run
11128-HP3-S-13-13.5					1		Hold
11128-HP3-S-13.5-14			9		1	X X	
11128-HP3-S-16.5-17					1		Hold
11128-HP3-S-17-17.5					1		Hold
11128-TD1-0.5	↓		10	pink gravel	1	X X	

RELINQUISHED BY:	RECEIVED BY:	TURNAROUND REQUIREMENTS:	REPORT REQUIREMENTS	INVOICE INFORMATION:	SAMPLE RECEIPT:
Signature: Daniel Galasso	Signature:	___ 24 hr ___ 48 hr ✓ 5 day	✓ I. Routine Report	P.O. #:	Shipping VIA:
Printed Name: Daniel Galasso	Printed Name:	✓ Standard (~ 10-15 working days)	___ II. Report (includes DUP, MS, MSD, as required, may be charged as samples)	Bill to:	Shipping #:
Firm: Emcon Assoc.	Firm:	___ Provide Verbal Preliminary Results	___ III. Data Validation Report (includes All Raw Data)		Condition:
Date/Time: 10/21/94 5:30pm	Date/Time:	___ Provide FAX Preliminary Results	___ IV. CLP Deliverable Report		Lab No.:
RELINQUISHED BY:	RECEIVED BY:	Requested Report Date:			
Signature: John Tilony	Signature: Elaine R. Thomas				
Printed Name: JOHN TILONY	Printed Name: Elaine R. Thomas				
Firm: CAT/BJ	Firm: CAS/GS				
Date/Time: 10/25/94 1600	Date/Time: 10/26/94 Fed Ex				

SPECIAL INSTRUCTIONS/COMMENTS:

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

400-05

Columbia Analytical Services, Inc.

1921 Ringwood Ave. • San Jose, CA 95131 • (408) 437-2400, FAX (408)437-9356

1286

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 10/21/94 PAGE 4 OF 4

PROJECT NAME TOSCO 11128 # 0952-041.02

PROJECT MNGR. Lynn Gallagher

COMPANY/ADDRESS EMCON - San Jose

PHONE (408) 453-7300

SAMPLERS SIGNATURE Daniel Galasso

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	NUMBER OF CONTAINERS
11128-TD2-0.5	10/21/94		L943337-11	pea gravel	
11128-TD3-0.5	↓		12	↓	
11128-TB4-0.5	↓		13	↓	

ANALYSIS REQUESTED

Base/Neu/Acid Organics GC/MS 625/8270	Volatile Organics GC/MS 624/8240	Halogenated or Aromatic Volatiles 601/8010 ☐ 602/8020 ☐	TPH as Gas/BTEX DHS LUFT/8020	TPH as Diesel/HEPA DHS LUFT	TRPH - 418.1	Oil and Grease Method	Metals (total or dissolved) List Below	pH, Cond, Cl, SO_4, PO_4, F, NO_2, Alk, TDS, TSS (circle)	NH3-N, COD, Total-P, TKN, NO_3 (circle)	Total Organic Carbon TOC 415/9060	Total Phenols	REMARKS
			X	X								
			X	X								
			X	X								

RELINQUISHED BY:
Daniel Galasso
Signature
Daniel Galasso
Printed Name
EMCON Assoc.
Firm
10/21/94 5:30pm
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

RELINQUISHED BY:
John Truong
Signature
JOHN TRUONG
Printed Name
CAS/GS
Firm
10/25/94 1600
Date/Time

RECEIVED BY:
Elaine R Thomas
Signature
Elaine R Thomas
Printed Name
CAS/GS
Firm
10/26/94
Date/Time
Fed Ex

TURNAROUND REQUIREMENTS:
___ 24 hr ___ 48 hr ✓ 5 day
✓ Standard (~ 10-15 working days)
___ Provide Verbal Preliminary Results
___ Provide FAX Preliminary Results
Requested Report Date ___

REPORT REQUIREMENTS
✓ I. Routine Report
___ II. Report (includes DUP, MS, MSD, as required, may be charged as samples)
___ III. Data Validation Report (includes All Raw Data)
___ IV. CLP Deliverable Report

INVOICE INFORMATION:
P.O. # ___
Bill to: ___

SAMPLE RECEIPT:
Shipping VIA: ___
Shipping #: ___
Condition: ___
Lab No.: ___

SPECIAL INSTRUCTIONS/COMMENTS:

400-05

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

Columbia Analytical Services, Inc.

November 16, 1994

Service Request No: S941286

Mike Noll
EMCON Northwest, Inc.
18912 N. Creek Parkway
Bothell, WA 98011

NOV 2 9 1994

Re: **TOSCO # 11128 / 0952-041.02**

Dear Mr. Noll:

Attached are the results of the water samples submitted to our lab on October 24, 1994. For your reference, these analyses have been assigned our service request number S941286.

All analyses were performed consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and CAS is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted:

Keoni A. Murphy
COLUMBIA ANALYTICAL SERVICES, INC.

KAM/ajb

Acronyms

ASTM	American Society for Testing and Materials
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
NAN	Not Analyzed
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected at or above the MRL
NR	Not Requested
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	EMCON Associates	**Service Request:**	S941286
Project:	TOSCO # 11128 / 0952-041.02	**Date Collected:**	10/21/94
Sample Matrix:	Water	**Date Received:**	10/24/94
		Date Extracted:	10/31/94
		Date Analyzed:	11/1,2/94

Hydrocarbon Scan
EPA Method 3510/California DHS LUFT Method
Units: ug/L (ppb)

Analyte:	Mineral Spirits	Jet Fuel	Kerosene	TPH as Diesel	Hydraulic Oil
Method Reporting Limit:	50	50	50	50	250
Sample Name	**Lab Code**				
11128-HP1-W	S941286-001	ND	ND	ND	ND	770
11128-HP3-W	S941286-002	ND	ND	ND	ND	ND
Method Blank	S941031-WB	ND	ND	ND	ND	ND

Approved By: _____ Date: December 16, 1994

5A/061694

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	EMCON Associates	**Service Request:**	S941286
Project:	TOSCO # 11128 / 0952-041.02	**Date Collected:**	10/21/94
Sample Matrix:	Water	**Date Received:**	10/24/94
		Date Extracted:	10/31/94
		Date Analyzed:	11/1,2/94

Surrogate Recovery Summary
Hydrocarbon Scan
EPA Method 3510/California DHS LUFT Method

Sample Name	Lab Code	Percent Recovery p-Terphenyl
11128-HP1-W	S941286-001	94
11128-HP3-W	S941286-002	92
Method Blank	S941031-WB	62 *

CAS Acceptance Limits: 66-123

* The surrogate recovery for the Method Blank is below the acceptance limits. The surrogate recovery for all samples is within the limits. Some of the samples were ND for all analytes. We do not believe that the data is significantly affected.

Approved By: Kevin A Murphy Date: November 6, 1994

SUR1/062994

Columbia Analytical Services, Inc.

9941286

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1921 Ringwood Ave. • San Jose, CA 95131 • (408) 437-2400, FAX (408)437-9356

DATE 10/21/94 PAGE 1 OF 4

PROJECT NAME TOSCO 11128 #0952-041.02

PROJECT MNGR Lynn Gallagher

COMPANY/ADDRESS EMCON - San Jose

PHONE (408) 453-7300

SAMPLERS SIGNATURE Daniel Galesso

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	NUMBER OF CONTAINERS	Base/Neu/Acid Organics GC/MS 625/8270	Volatile Organics GC/MS 624/8240	Halogenated or Aromatic Volatiles 601/8010 ☐ 602/8020 ☐	TPH as Gas/BTEX DHS LUFT 8015	TPH as Diesel/BTEX DHS LUFT	TRPH - 418.1	Oil and Grease Method	Metals (total or dissolved) List Below	pH, Cond, Cl, SO4, PO4, F, NO3, Alk, TDS, TSS (circle)	Nitr-N, COD, Total-P, TKN, NO3 (circle)	Total Organic Carbon TOC 415.8/9060	Total Phenols					REMARKS
11128-HP1-W	10/21/94			water	5				X	X												
11128-HP3-W				water	5				X	X												
11128-BLK-W				water	2				X													
11128-HP1-S-2.5-3				Soil	1																	Hold
11128-HP1-S-3-3.5				soil	1																	Hold
11128-HP1-S-6-6.5				soil	1																	Hold
11128-HP1-S-6.5-7				soil	1																	Hold
11128-HP1-S-9.5-10				soil	1																	Hold
11128-HP1-S-10-10.5				soil	1				X	X												~~Hold~~
11128-HP1-S-13-13.5	↓			Soil	1																	~~Hold~~ Hold

RELINQUISHED BY:
Signature: Daniel Galesso
Printed Name: Daniel Galesso
Firm: EMCON Assoc.
Date/Time: 10/21/94 5:30pm

RECEIVED BY:
Signature: [illegible]
Printed Name: C. J. NORRIS
Firm: CAS
Date/Time: 10/24/94 9:00am

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
___ 24 hr ___ 48 hr ✓ 5 day
✓ Standard (~ 10-15 working days)
___ Provide Verbal Preliminary Results
___ Provide FAX Preliminary Results
Requested Report Date ____

REPORT REQUIREMENTS
✓ I. Routine Report
___ II. Report (includes DUP,MS, MSD, as required, may be charged as samples)
___ III. Data Validation Report (includes All Raw Data)
___ IV.CLP Deliverable Report

INVOICE INFORMATION:
P.O. # ____
Bill to: ____

SAMPLE RECEIPT:
Shipping VIA: ____
Shipping #: ____
Condition: ____
Lab No.: ____

SPECIAL INSTRUCTIONS/COMMENTS:

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

400-05

Columbia Analytical Services, Inc.

5941286

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1921 Ringwood Ave. • San Jose, CA 95131 • (408) 437-2400, FAX (408)437-9356

DATE 10/21/94 PAGE 2 OF 4

PROJECT NAME TOSCO 11128 #0952-041.02

PROJECT MNGR. Lynn Gallagher

COMPANY/ADDRESS EMCON - San Jose

PHONE (408) 453-7300

SAMPLERS SIGNATURE Daniel Galasso

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	NUMBER OF CONTAINERS	ANALYSIS REQUESTED	REMARKS
11128-HP1-S-13.5-14	10/21/94			Soil	1		Hold
11128-HP1-S-16.5-17					1		Hold
11128-HP1-S-17-17.5					1	M.L. 10/24/94	Do not Analyze
11128-HP1-S-20-20.5					1		Hold
11128-HP1-S-20.5-21					1	M.L. 10/24/94	Do not Analyze
11128-HP2-S-2.5-3					1		Hold
11128-HP2-S-3-3.5					1		
11128-HP2-S-6-6.5					1		Hold
11128-HP2-S-6.5-7					1		
11128-HP3-S-2.5-3	↓			↓	1		Hold

Base/Neu/Acid Organics GC/MS 625/8270; Volatile Organics GC/MS 624/8240; Halogenated or Aromatic Volatiles 601/8010 ☐ 602/8020 ☐; EPH as Gas/BTEX DHS LUFT 8015; EPH as Diesel/HEPA DHS LUFT; TRPH - 418.1; Oil and Grease Method; Metals (total or dissolved) List Below; pH, Cond, Cl, SO4, PO4, F, NO3, Alk, TDS, TSS (circle); NH3-N, COD, Total P, TKN, NO3 (circle); Total Organic Carbon TOC 415/9060; Total Phenols

RELINQUISHED BY:	RECEIVED BY:
Signature: Daniel Galasso	Signature: J. Norris
Printed Name: Daniel Galasso	Printed Name: J. NORRIS
Firm: EMCON Assoc.	Firm: CAS
Date/Time: 10/21/94 5:30 pm	Date/Time: 10/24/94 9:00 am
RELINQUISHED BY:	RECEIVED BY:
Signature	Signature
Printed Name	Printed Name
Firm	Firm
Date/Time	Date/Time

TURNAROUND REQUIREMENTS:
- ___ 24 hr ___ 48 hr ✓ 5 day
- ✓ Standard (~ 10-15 working days)
- ___ Provide Verbal Preliminary Results
- ___ Provide FAX Preliminary Results
- Requested Report Date: ___

REPORT REQUIREMENTS
- ✓ I. Routine Report
- ___ II. Report (includes DUP,MS, MSD, as required, may be charged as samples)
- ___ III. Data Validation Report (Includes All Raw Data)
- ___ IV. CLP Deliverable Report

INVOICE INFORMATION:
- P.O. #: ___
- Bill to: ___

SAMPLE RECEIPT:
- Shipping VIA: ___
- Shipping #: ___
- Condition: ___
- Lab No.: ___

SPECIAL INSTRUCTIONS/COMMENTS:

DISTRIBUTION: WHITE - return to orig YELLOW - lab; PINK - retained by originator

400-05

Columbia Analytical Services, Inc.

5941286

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1921 Ringwood Ave. • San Jose, CA 95131 • (408) 437-2400, FAX (408)437-9356

DATE 10/21/94 PAGE 3 OF 4

PROJECT NAME TOSCO 11128 #0952-041.02

PROJECT MNGR Lynn Gallagher

COMPANY/ADDRESS EMCON - San Jose

PHONE (408) 453-7300

SAMPLERS SIGNATURE David Galasso

	SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	NUMBER OF CONTAINERS	REMARKS
21	11128-HP3-S-3-3.5	10/21/94			soil	1	Hold
22	11128-HP3-S-6-6.5					1	Hold
23	11128-HP3-S-6.5-7					1	Hold
24	11128-HP3-S-9.5-10					1	Hold
25	11128-HP3-S-10-10.5					1	[redacted] run
26	11128-HP3-S-13-13.5					1	Hold
27	11128-HP3-S-13.5-14					1	
28	11128-HP3-S-16.5-17					1	Hold
29	11128-HP3-S-17-17.5					1	Hold
30	11128-TD1-0.5				peagravel	1	

ANALYSIS REQUESTED

Base/Neu/Acid Organics GC/MS 8240/8270 ☐
Volatile Organics GC/MS 8240/8240 ☐
Halogenated or Aromatic Volatiles 8021/8010 ☐
GC/Lab Gas/BTEX 8020/8020 ☐
DHS LUFT 8020 ☐
GC/as Diesel/HBFC ☐
DHS LUFT ☐
TRPH - 418.1 ☐
Oil and Grease Method ☐
Metals (total or dissolved) List Below ☐
pH, Cond, Cl, SO4, PO4, F, NO3, Alk, TDS, TSS (circle) ☐
Nitr-H, COD, Total-P, TKN, NO3 (circle) ☐
Total Organic Carbon TOC 415.8/360 ☐
Total Phenols ☐

RELINQUISHED BY:	RECEIVED BY:
Signature: David Galasso	Signature:
Printed Name: Daniel Galesso	Printed Name: D.J. NORRIS
Firm: Emcon Assoc.	Firm: CAS
Date/Time: 10/21/94 5:30pm	Date/Time: 10/24/94 9:00am
RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:
Printed Name:	Printed Name:
Firm:	Firm:
Date/Time:	Date/Time:

TURNAROUND REQUIREMENTS:
___ 24 hr ___ 48 hr ✓ 5 day
✓ Standard (~ 10-15 working days)
___ Provide Verbal Preliminary Results
___ Provide FAX Preliminary Results
Requested Report Date: ___

REPORT REQUIREMENTS
✓ I. Routine Report
___ II. Report (includes DUP,MS, MSD, as required, may be charged as samples)
___ III. Data Validation Report (includes All Raw Data)
___ IV.CLP Deliverable Report

INVOICE INFORMATION:
P.O. #:
Bill to:

SAMPLE RECEIPT:
Shipping VIA:
Shipping #:
Condition:
Lab No.:

SPECIAL INSTRUCTIONS/COMMENTS:

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

400-05

Columbia Analytical Services, Inc.

5941286

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1921 Ringwood Ave. • San Jose, CA 95131 • (408) 437-2400, FAX (408)437-9356

DATE 10/21/94 PAGE 4 OF 4

PROJECT NAME TOSCO 11128 # 0952-041.02

PROJECT MNGR Lynn Gallagher

COMPANY/ADDRESS EMCON - San Jose

PHONE (408) 453-7300

SAMPLERS SIGNATURE Daniel Galasso

	SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	NUMBER OF CONTAINERS	REMARKS
31	11128-TD2-0.5	10/21/94			peg gravel		
32	11128-TD3-0.5	↓			↓		
33	11128-TD4-0.5	↓			↓		

ANALYSIS REQUESTED

Base/Neu/Acid Organics GC/MS 625/8270

Volatile Organics GC/MS 624/8240

Halogenated or Aromatic Volatiles 601/8010 ☐ 602/8020 ☐

TPH as Gas/BTEX DHS LUFT/8015

TPH as Diesel/BTEX DHS LUFT

TPPH - 418.1

Oil and Grease Method

Metals (total or dissolved) List Below

pH, Cond, Cl, SO4, PO4, F, NO3, Alk, TDS, TSS (circle)

NH3-N, COD, Total-P, TKN, NO3 (circle)

Total Organic Carbon TOC 415/9060

Total Phenols

RELINQUISHED BY:	RECEIVED BY:
Signature: Daniel Galasso	Signature: J NORRIS
Printed Name: Daniel Galasso	Printed Name: J NORRIS
Firm: EMCON Assoc.	Firm: CAS
Date/Time: 10/21/94 5:30pm	Date/Time: 10/24/94 9:am

TURNAROUND REQUIREMENTS:

___ 24 hr ___ 48 hr ✓ 5 day

✓ Standard (~ 10-15 working days)

___ Provide Verbal Preliminary Results

___ Provide FAX Preliminary Results

Requested Report Date ___

REPORT REQUIREMENTS

✓ I. Routine Report

___ II. Report (includes DUP,MS, MSD, as required, may be charged as samples)

___ III. Data Validation Report (includes All Raw Data)

___ IV. CLP Deliverable Report

INVOICE INFORMATION:

P.O. #: ___

Bill to: ___

SAMPLE RECEIPT:

Shipping VIA: ___

Shipping #: ___

Condition: ___

Lab No.: ___

RELINQUISHED BY:	RECEIVED BY:
Signature	Signature
Printed Name	Printed Name
Firm	Firm
Date/Time	Date/Time

SPECIAL INSTRUCTIONS/COMMENTS:

DISTRIBUTION: WHITE - return to originator YELLOW - lab; PINK - retained by originator

400-05