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February 28, 2001

Tel: (916) 771-7098, FAX :(916) 771-4584

Mr. Scott Seery
Alameda County Health Care Agency
Department of Environmental Health
1131 Harbor Parkway, Room 250
Alameda, CA 94502-6577

MAR 1 2 2001

Subject: *Quarterly Ground Water Monitoring and
Remediation System Status Report, Fourth Quarter 2000*
Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California
Doulos Project No. 00-3720

Dear Mr. Seery:

This report describes quarterly ground water monitoring and remediation system activities conducted during the **Fourth Quarter 2000**.

STATUS OF GROUND WATER MONITORING

Doulos Environmental, Inc. (Doulos) has been authorized by Ultramar Inc. to perform quarterly ground water monitoring and remediation system oversight for the subject site. This report describes quarterly ground water monitoring and remediation system status for the **Fourth Quarter 2000**.

Cumulative ground water sampling information is tabulated in Table 1. A site topographic map, site map, ground water elevation contour map and concentration map are shown as Figures 1 through 4, respectively. The site history is included in Enclosure A, the quarterly monitoring data sheets are included in Enclosure B and the ground water analytical results are included in Enclosure C.

Work Performed During the Fourth Quarter 2000:

- Doulos performed ground water sampling on **November 15, 2000**.

Interim Remediation:

- On **October 4, 2000**, 1,500 gallons of ground water were over purged from Monitoring wells MW-2 and MW-3 using a vacuum truck. Analytical results are included in Table 2.
- On **October 17, 2000**, 1,200 gallons of ground water were over purged from Monitoring wells MW-2 and MW-3 using a vacuum truck. Analytical results are included in Table 2.
- On **November 29, 2000**, a dual phase extraction (DPE) test was conducted on monitoring wells MW-1 and MW-2. Approximately 1,800 gallons of ground water were extracted during the DPE test.
- On **December 4, 2000**, approximately 1,600 gallons of ground water were extracted during the DPE test.

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Analytical results from the above referenced interim remediation are included in Table 2. Laboratory analytical results for the above referenced interim remediation activities are included in Enclosure C. A follow-up report regarding the above referenced interim remediation will be produced at a later date.

STATUS OF REMEDIATION SYSTEM

Operation and maintenance is performed bi-monthly by Doulos on a remediation system consisting of ground water treatment, soil vapor extraction (SVE) and air sparging components. A process flow diagram showing details of the system is shown as Figures 5.

Operation & Maintenance Site Visits:

- Operation and maintenance site visits were conducted for the **Fourth Quarter 2000** on:
 - **October 4 and 17, 2000**
 - **November 10 and 29, 2000**
 - **December 7 and 20, 2000**

Ground Water Extraction System Performance:

- The Ground Water Treatment System did not operate during the **Fourth Quarter 2000**.
- During the **Fourth Quarter 2000**, the ground water system processed **Zero (0)** gallons. As of **December 20, 2000**, the ground water system has processed approximately **228,500** gallons.
- The Ground Water Treatment system has not operated continuously since **March 1998** and has only processed purge water since that time.

Soil Vapor Extraction System Performance:

- The SVE system operated continuously during the **Fourth Quarter 2000**.
- During the **Fourth Quarter 2000**, the SVE system removed **3.0** pounds of vapor equivalent gasoline.
- As of **December 20, 2000**, the SVE system has removed approximately **2,414** pounds (**396** gallons) of vapor equivalent gasoline.

Air Sparging System Performance:

- The Air Sparging system did not operate during the **Fourth Quarter 2000**.

CONCLUSIONS/RECOMMENDATIONS


Doulos recommends continued operation of the remediation system and quarterly ground water monitoring.

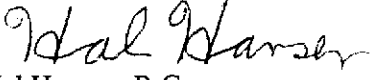
The interpretations contained in this report represent our professional opinions and are based, in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

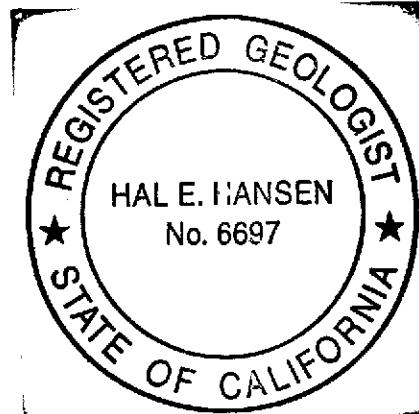
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Alameda County Health Care Agency
Department of Environmental Health
February 26, 2001
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If you have any questions concerning this project, please contact Richard Munsch at (916) 771-7098.

DOULOS ENVIRONMENTAL, INC.


Richard D. Munsch
Project Manager


Hal Hansen, R.G.
California Registered Geologist No.6697



RDM (3720 4Q GWM 11-15-00)

cc: Mr. Joe Aldridge – Ultramar Inc.
Case Worker – California Regional Water Quality Control Board – San Francisco Bay Region

Enclosures:

- Enclosure A: Site Background Information
- Enclosure B: Ground Water Sampling Information
- Enclosure C: Ground Water Analytical Results
- Enclosure D: Soil Vapor Extraction System Performance Data
- Enclosure E: Historical Ground Water Monitoring Data

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No.3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Comments
MW-1	11/15/00	33.10	14.19	18.91	<20	<20	470	390	8,500	14,000	No sheen
MW-2	11/15/00	32.80	13.96	18.84	75	48	1,200	2,800	16,000	19,000	No sheen
MW-3	11/15/00	32.30	13.85	18.45	<200	<200	<200	<200	<20,000	84,000	No sheen
MW-4	11/15/00	32.90	14.33	18.57	12	38	28	130	710	1,300	No sheen
MW-5	11/15/00	32.70	14.23	18.47	36	1.6	180	180	4,500	10	No sheen
MW-6	11/15/00	30.40	12.34	18.06	<0.5	<0.5	<0.5	<0.5	<50	<0.5	No sheen
MW-7	11/15/00	31.20	13.06	18.14	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
MW-8	11/15/00	33.80	14.94	18.86	2.0	<0.5	3.1	2.6	100	110	No sheen
MW-9	11/15/00	32.56	13.60	18.96	<0.5	<0.5	0.69	<0.5	200	12	No sheen

TPH = Total petroleum hydrocarbons.

MTBE = Methyl tertiary butyl ether.

µg/L = Micrograms per liter.

TABLE 2

ADDITIONAL GROUND WATER MONITORING DATA

Beacon Station No.3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Sample I.D.	Time	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH ^a as gasoline (µg/L)	MTBE ^b (µg/L)	DIPE ^c (µg/L)	ETBE ^d (µg/L)	TAME ^e (µg/L)	TBA ^f (µg/L)	Comments
MW-2	10/04/00	MW-2-IN	5:58 AM	150	<100	180	390	<10,000	91,000	NA	NA	NA	NA	
	10/04/00	MW-2-FI	8:50 AM	78	54	420	1,100	8,000	27,000	NA	NA	NA	NA	
	10/17/00	MW-2	9:45 AM	160	140	2,200	6,100	86,000	26,000	NA	NA	NA	NA	
	11/29/00	MW-2-IN	7:30 AM	62	66	1,000	3,800	19,000	12,000	NA	NA	NA	NA	
	11/29/00	MW-2-FI	2:20 PM	41	5.9	110	240	3,600	16,000	NA	NA	NA	NA	
	12/04/00	MW-2-IN	10:35 AM	87	82	1,300	4,400	22,000	7,900	<20	<20	<20	580	
	12/04/00	MW-2-FI	5:30 PM	51	<20	92	190	3,300	12,000	<20	<20	<20	990	
MW-3	10/04/00	MW-3-IN	8:40 AM	<200	<200	<200	<200	<20,000	150,000	NA	NA	NA	NA	
	10/04/00	MW-3-FI	9:20 AM	60	12	54	23	2,600	100,000	NA	NA	NA	NA	
	10/17/00	MW-3	10:20 AM	57	<50	50	<50	5,200	110,000	NA	NA	NA	NA	
	11/29/00	MW-3-IN	9:30 AM	94	<50	77	<50	<5,000	68,000	NA	NA	NA	NA	
	11/29/00	MW-3-FI	4:05 PM	<100	<100	<100	<100	<10,000	61,000	NA	NA	NA	NA	
	12/04/00	MW-3-IN	10:35 AM	93	<50	74	<50	<5,000	65,000	<50	<50	96	6,000	
	12/04/00	MW-3-FI	7:10 PM	<100	<100	<100	<100	<10,000	47,000	<100	<100	100	2,700	

a) Total Petroleum Hydrocarbon as gasoline

b) Methyl-t-butyl ether

c) Diisopropyl ether

d) Ethyl-t-butyl ether

e) Tert-amyl methyl ether

f) Tert Butanol

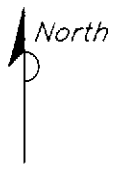
µg/L = Micrograms per liter.



T.3 S.

R.3 W.

GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 SAN LEANDRO, CA
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 1980



QUADRANGLE LOCATION

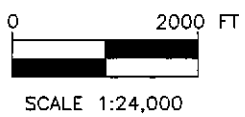
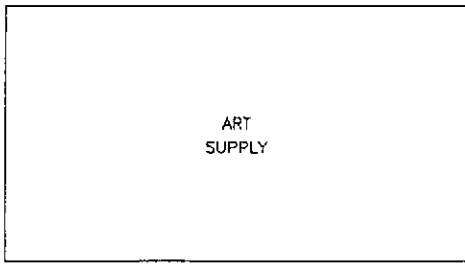


FIGURE 1
 SITE TOPOGRAPHIC MAP
 BEACON STATION NO 3720
 1088 MARINA BOULEVARD
 SAN LEANDRO, CA.

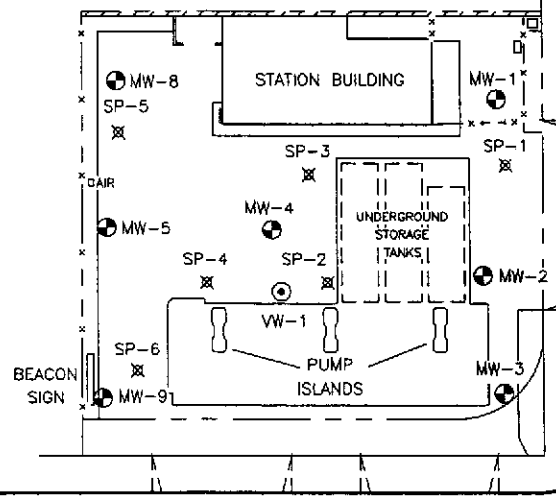
PROJECT NO. 00-3720	DRAWN BY M.L. 12/18/00
FILE NO. 00-3720-1A	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY



WAYNE AVENUE



MW-7



MARINA BOULEVARD

MW-6



LEGEND:

- PROPERTY LINE
- x-x- FENCE
- MW-1 MONITORING WELL LOCATION
- ⊙ VW-1 VAPOR EXTRACTION WELL LOCATION
- ⊗ SP-1 AIR SPARGING WELL LOCATION

NOTES:

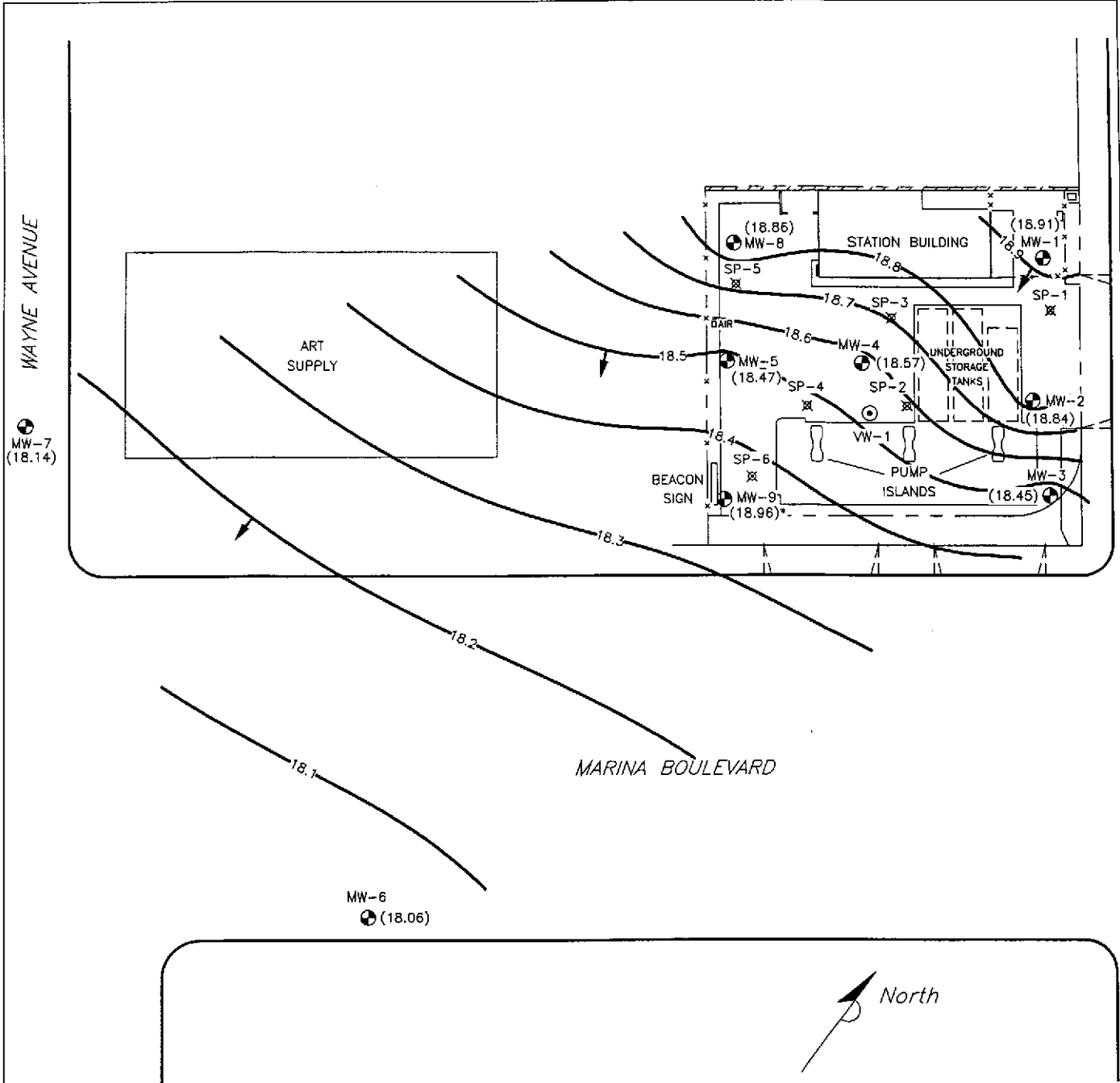
1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

FIGURE 2
SITE MAP

BEACON STATION NO. 3720
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 12/18/00
FILE NO. 00-3720-6	PREPARED BY rdm
REVISION NO. 6	REVIEWED BY





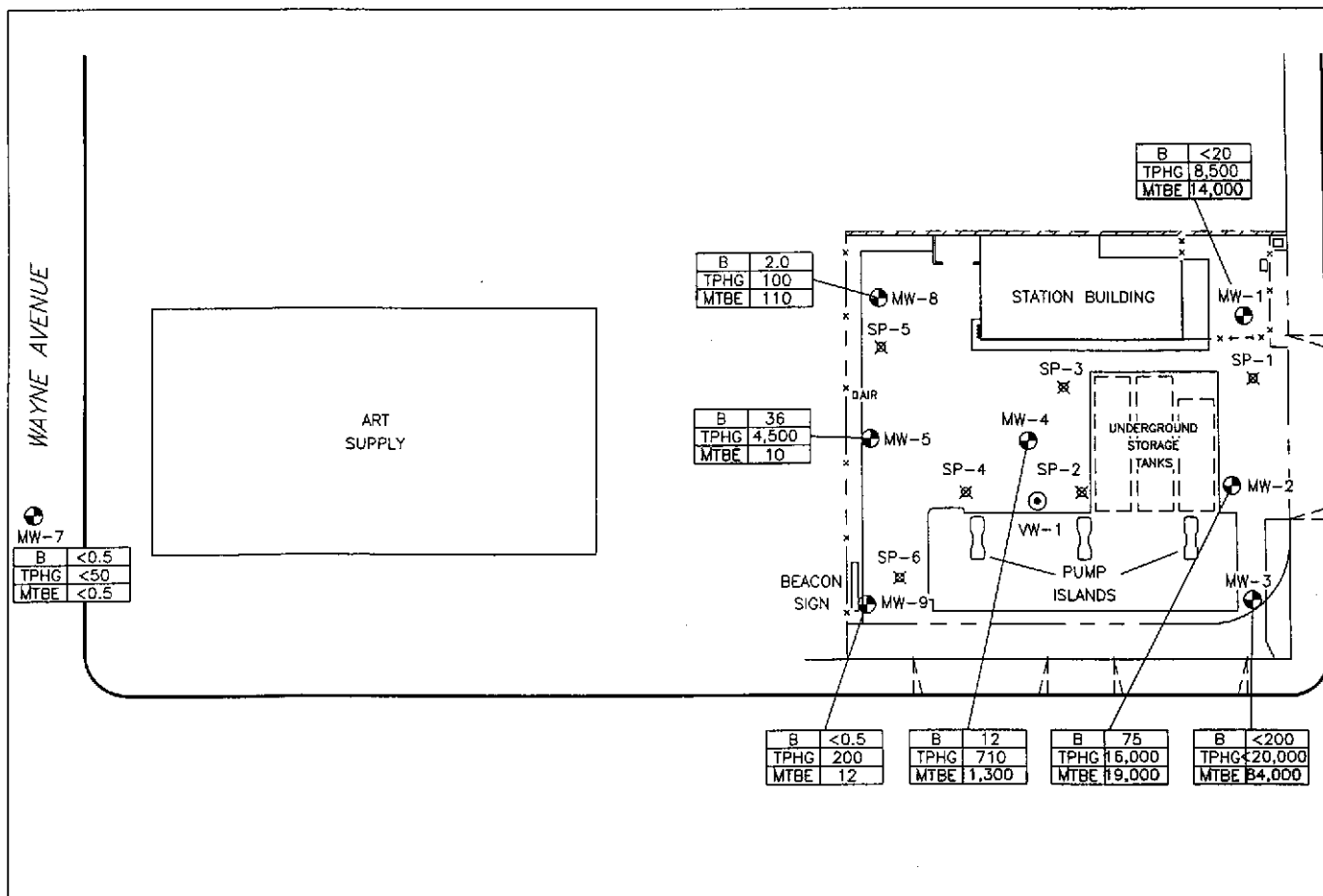
- LEGEND:
- PROPERTY LINE
 - x-x- FENCE
 - ⊕ MW-1 MONITORING WELL LOCATION
 - ⊙ VW-1 VAPOR EXTRACTION WELL LOCATION
 - ⊗ SP-1 AIR SPARGING WELL LOCATION
 - (18.91) GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
 - 18.2- WATER ELEVATION CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL
 - ← GROUND WATER FLOW DIRECTION
 - * MONITORING WELL GROUND WATER ELEVATION WAS NOT USED IN CONTOUR CONSTRUCTION

- NOTES:
1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95 SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.
 2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

FIGURE 3
GROUND WATER ELEVATION CONTOUR MAP
 11/15/00
 BEACON STATION NO. 3720
 1088 MARINA BOULEVARD
 SAN LEANDRO, CA.

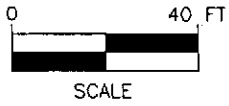
PROJECT NO. 00-3720	DRAWN BY M.L. 12/18/00
FILE NO. 00-3720-6	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

DOULOS
 Environmental, Inc.



MW-6

B	<0.5
TPHG	<50
MTBE	<0.5



LEGEND:

- PROPERTY LINE
 - x-x- FENCE
 - MW-1 MONITORING WELL LOCATION
 - ⊙ VW-1 VAPOR EXTRACTION WELL LOCATION
 - ⊗ SP-1 AIR SPARGING WELL LOCATION
- | | |
|------|------|
| B | <0.5 |
| TPHG | <50 |
| MTBE | <5.0 |
- BENZENE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
 TOTAL PETROLEUM HYDROCARBONS AS GASOLINE IN ug/L
 METHYL TERTIARY BUTYL ETHER IN ug/L

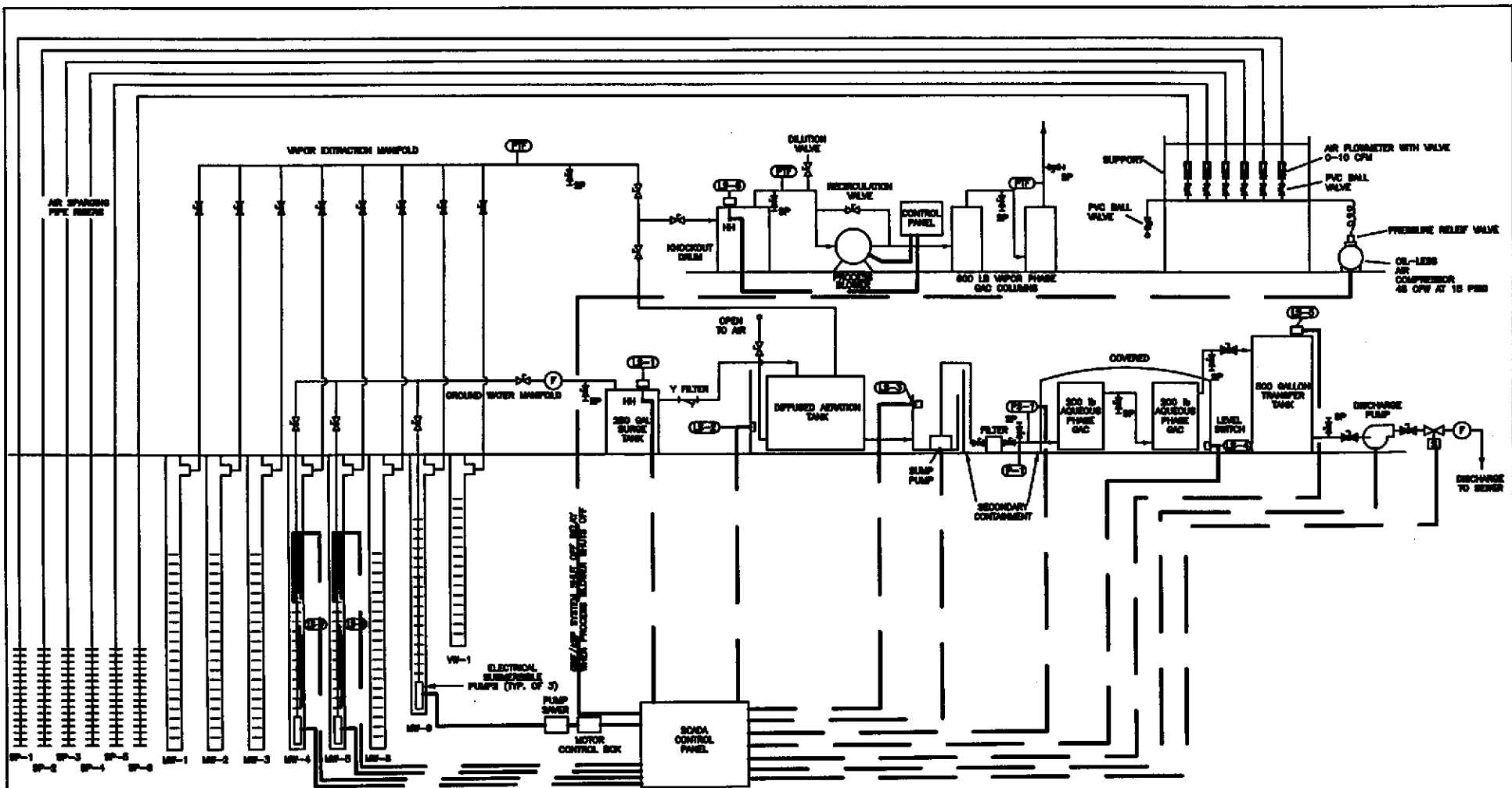
NOTES:

1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

FIGURE 4
 GROUNDWATER ANALYTICAL SUMMARY
 11/15/00
 BEACON STATION NO. 3720
 1088 MARINA BOULEVARD
 SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 12/18/00
FILE NO. 00-3720-6	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY





LEGEND:

- BALL VALVE
- GATE VALVE
- SOLENOID VALVE
- SAMPLE PORT
- PRESSURE, TEMPERATURE, FLOW MONITORING POINT
- FLOW TOOLIZER
- PRESSURE GAUGE
- AQUEOUS PHASE CARBON PRESSURE SWITCH—PRESSURE SWITCH—SHUTS DGS/SUMP PUMP AND WELL PUMPS (N/REMOTE RESET)

- (LS-1) SURGE TANK
HIGH HIGH—SHUTS OFF WELL PUMPS (N/REMOTE RESET)
- (LS-2) SECONDARY CONTAINMENT VESSEL FOR DGS:
HIGH HIGH SHUTS OFF WELL PUMPS
- (LS-3) DGS/SUMP:
HIGH HIGH—SHUTS OFF WELL PUMPS
HIGH—TURNS ON DGS SUMP PUMP
LOW—TURNS OFF DGS SUMP PUMP
- (LS-4) SECONDARY CONTAINMENT VESSEL FOR AQUEOUS PHASE CARBON:
HIGH HIGH—SHUTS OFF DGS/SUMP PUMP AND WELL PUMPS
- (LS-5) DISCHARGE HOLDING TANK:
HIGH HIGH—SHUTS OFF DGS SUMP PUMP (N/REMOTE RESET)
HIGH—TURNS ON TRANSFER PUMP AND OPENS SEWER SOLENOID VALVE
LOW—TURNS OFF TRANSFER PUMP AND CLOSES SEWER SOLENOID VALVE
- (LS-7) RECOVERY WELL PROBES:
HIGH—TURNS ON SUBMERSIBLE WELL PUMP (MW-4)—TO BE CONTROLLED BY RELAY IN PANEL
LOW—TURNS OFF SUBMERSIBLE WELL PUMP (MW-4)—TO BE CONTROLLED BY RELAY IN PANEL
- (LS-8) RECOVERY WELL PROBES:
HIGH—TURNS ON SUBMERSIBLE WELL PUMP (MW-5)—TO BE CONTROLLED BY RELAY IN PANEL
LOW—TURNS OFF SUBMERSIBLE WELL PUMP (MW-5)—TO BE CONTROLLED BY RELAY IN PANEL

Note: Not To Scale
Source: Figure Modified From Drawing Provided By Ultramar.

<p>FIGURE 5 PROCESS FLOW DIAGRAM Beacon Station No. 3720 1088 MARINA BOULEVARD SAN LEANDRO, CALIFORNIA</p>		
<p>PROJECT NO. 00-3720</p>	<p>PREPARED BY: DA 10/00</p>	
<p>DRAWING NO. FIG 5</p>	<p>REVIEWED BY:</p>	

HISTORICAL BACKGROUND INFORMATION

Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

PREVIOUS OWNER

- January 1987 - Three underground gasoline storage tanks and one waste oil tank were excavated and removed from two tank cavities. Samples collected from beneath the former tanks indicated that hydrocarbons were present in the soil.
- March 1987 - Five monitoring wells (MW-1 through MW-5) were installed by Conoco. Hydrocarbons were detected in soil and ground-water samples collected from the wells with the highest concentrations being detected in the area of MW-4.
- July 1987 - Four soil borings were drilled in the vicinity of MW-4 to further characterize the soil contamination in that area. TPH concentrations above 100 ppm were detected in each boring. The site has been on a monitoring program since June 1987.

ULTRAMAR INC.

- July 1990 - The site was purchased by Ultramar Inc. from Conoco. The monitoring program has continued.
- August 1991 - A shallow ground water study was performed as a screening tool to locate wells.
- October 1991 - Three additional wells were installed to further define the extent of the dissolved hydrocarbon plume.
- October 1993 - Performed a ground-water pump test, a vapor extraction test, and an air-sparging test.
- May 1994 - A Problem Assessment Report/Remedial Action Plan was submitted.
- December 1994 - One additional monitoring well, six air sparging points and one vapor extraction well were installed.
- June 1997 - Began operation of vapor extraction system.
- July 1997 - The ground water recovery system and the air sparging system began operation.
- September 7, 1999 - Performed quarterly monitoring. Continued to operate the vapor extraction and air sparging systems. The ground-water system did not operate during the quarter.
- The ground water extraction system has processed approximately 228,850 gallons of water. Approximately 1,762 pounds of hydrocarbons have been removed by the vapor extraction system.

ENCLOSURE B

Ground Water Sampling Information

**DOULOS ENVIRONMENTAL COMPANY
GROUNDWATER/LIQUID LEVEL DATA
(measurements in feet)**

Project Address: Beacon #720, 1088 Marina Blvd.

Date: 11-13-00

San Leandro, CA

Project No.: 94-720-01

Recorded by: Hal Hansen

Well No	Time	Well Elev. TOC	Depth to Gr. Water	Measured Total Depth	Gr. Water Elevation	Depth to Product	Product Thickness	Comments
mw-1	2:06		14.19	17.74				
mw-2	2:04		13.96	22.70				
mw-3	1:59		13.85	28.40				
mw-4	2:10		14.33	27.43				
mw-5	2:17		14.23	28.84				
mw-6	1:54		12.34	14.89				
mw-7	1:50		13.06	29.50				
mw-8	2:14		14.94	27.90				
mw-9	2:20		13.60	24.62				

. Notes:

Client: Ultramar

Sampling Date: 11-15-00

Site: Beacon #720

Project No.: 94-720-01

1088 Marina Blvd.

Well Designation: MW-1

San Leandro, Ca

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in well box? NO YES Above TOC Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): 4
 Well cover type: 8" UV _____ 12" UV _____ 12" EMCO _____ 8" BK _____
 12" BK _____ 12" DWP _____ 12" CNI 36" CNI _____ Other _____
 General condition of wellhead assembly: Excellent Good Fair Poor

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 2:06 Time: 4:00 Calculated purge: 2.3
 Depth of well: 17.74 Depth to water: 14.80 Actual purge: 2.3
 Depth to water: 14.19

Start purge: 3:49 Sampling time: 4:02

Time	Temp.	E.C.	pH	Turbidity	Volume
3:50	60.2	1406	7.34	—	1
3:51	61.0	1391	7.30	—	2
3:52	61.2	1386	7.28	—	3
3:53	61.3	1380	7.26	—	4

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
 2" Locking Cap: _____ Lock #3753: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Client: Ultramar

Sampling Date: 11-15-00

Site: Beacon #720

Project No.: 94-720-01

1088 Marina Blvd.

Well Designation: MW-2

San Leandro, Ca

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in well box? NO YES Above TOC Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): _____
 Well cover type: 8" UV _____ 12" UV _____ 12" EMCO _____ 8" BK _____
 12" BK _____ 12" DWP _____ 12" CNI 36" CNI _____ Other _____
 General condition of wellhead assembly: Excellent GOOD Fair Poor

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 2:04 Time: 3:40 Calculated purge: 9.6
 Depth of well: 22.70 Depth to water: 14.40 Actual purge: 9.6
 Depth to water: 13.96

Start purge: 3:30 Sampling time: 3:41

Time	Temp.	E.C.	pH	Turbidity	Volume
3:31	61.0	1406	7.33	—	1
3:32	61.3	1410	7.30	—	2
3:33	60.7	1399	7.27	—	3
3:34	60.8	1398	7.26	—	4

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
 2" Locking Cap: _____ Lock #3753: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

Client: Ultramar
 Site: Beacon #720
1088 Marina Blvd.
San Leandro, Ca

Sampling Date: 11-15-00
 Project No.: 94-720-01
 Well Designation: MW-3

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in well box? NO YES Above TOC Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): _____
 Well cover type: 8" UV _____ 12" UV _____ 12" EMCO _____ 8" BK _____
 12" BK _____ 12" DWP _____ 12" CNI 36" CNI _____ Other _____
 General condition of wellhead assembly: Excellent Good Fair Poor

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 1:59 Time: 3:26 Calculated purge: 9.3
 Depth of well: 28.40 Depth to water: 14.10 Actual purge: 9.3
 Depth to water: 13.85

Start purge: 3:15 Sampling time: 3:27

Time	Temp.	E.C.	pH	Turbidity	Volume
3:16	61.3	1198	7.40	—	1
3:17	60.9	1191	7.34	—	2
3:18	60.8	1178	7.32	—	3
3:20	60.7	1186	7.31	—	4

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
 2" Locking Cap: _____ Lock #3753: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Client: Ultramar

Sampling Date: 11-15-00

Site: Beacon #720

Project No.: 94-720-01

1088 Marina Blvd.

Well Designation: MW-4

San Leandro, Ca

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in well box? NO YES Above TOC Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): _____
 Well cover type: 8" UV _____ 12" UV _____ 12" EMCO _____ 8" BK _____
 12" BK _____ 12" DWP _____ 12" CNI X 36" CNI _____ Other _____
 General condition of wellhead assembly: Excellent Good Fair Poor

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 2:10 Time: 4:25 Calculated purge: 8.3
 Depth of well: 27.43 Depth to water: 15.08 Actual purge: 8.3
 Depth to water: 14.33

Start purge: 4:11 Sampling time: 4:26

Time	Temp.	E.C.	pH	Turbidity	Volume
4:12	60.8	1240	7.45	—	1
4:13	61.0	1210	7.40	—	2
4:14	61.7	1186	7.34	—	3
4:15	61.9	1180	7.32	—	4

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
 2" Locking Cap: _____ Lock #3753: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

Client: Ultramar
 Site: Beacon #720
1088 Marina Blvd.
San Leandro, Ca

Sampling Date: 11-15-00
 Project No.: 94-720-01
 Well Designation: MW-5

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in well box? NO YES Above TOC Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): _____
 Well cover type: 8" UV _____ 12" UV _____ 12" EMCO _____ 8" BK _____
 12" BK _____ 12" DWP _____ 12" CNI 36" CNI _____ Other _____
 General condition of wellhead assembly: Excellent Good Fair Poor

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 2:17 Time: 5:00 Calculated purge: 9.3
 Depth of well: 28.84 Depth to water: 15.08 Actual purge: 9.3
 Depth to water: 14.23

Start purge: 4:49 Sampling time: 5:02

Time	Temp.	E.C.	pH	Turbidity	Volume
4:50	62.6	1158	7.21	—	1
4:51	62.8	1140	7.16	—	2
4:52	62.9	1110	7.15	—	3
4:53	63.4	1106	7.12	—	4

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
 2" Locking Cap: _____ Lock #3753: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

Client: Ultramar

Sampling Date: 11-15-00

Site: Beacon #720

Project No.: 94-720-01

1088 Marina Blvd.

Well Designation: MW-6

San Leandro, Ca

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in well box? NO YES Above TOC Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): _____
 Well cover type: 8" UV _____ 12" UV _____ 12" EMCO _____ 8" BK _____
 12" BK _____ 12" DWP _____ 12" CNI _____ 36" CNI _____ Other 12 POMECCO
 General condition of wellhead assembly: Excellent Good Fair Poor

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement Recharge Measurement
 Time: 1:54 Time: 3:06 Calculated purge: 1.6
 Depth of well: 14.89 Depth to water: 12.60 Actual purge: 1.6
 Depth to water: 12.34

Start purge: 2:49 Sampling time: 3:10

Time	Temp.	E.C.	pH	Turbidity	Volume
2:49	61.8	1510	7.38	—	1
2:50	61.9	1499	7.30	—	2
2:50	62.3	1493	7.28	—	3
2:51	62.7	1480	7.26	—	4

Sample appearance: clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
 2" Locking Cap: _____ Lock #3753: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

Client: Ultramar

Sampling Date: 11-15-00

Site: Beacon #720

Project No.: 94-720-01

1088 Marina Blvd.

Well Designation: MW-7

San Leandro, Ca

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in well box? NO YES Above TOC Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): 6
 Well cover type: 8" UV _____ 12" UV _____ 12" EMCO _____ 8" BK _____
 12" BK _____ 12" DWP _____ 12" CNI _____ 36" CNI _____ Other 12 POMTECO
 General condition of wellhead assembly: Excellent Good Fair Poor

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
 Initial Measurement Recharge Measurement
 Time: 1:50 Time: 2:42 Calculated purge: 7.9
 Depth of well: 25.50 Depth to water: 13.88 Actual purge: 7.9
 Depth to water: 13.06

Start purge: 2:34 Sampling time: 2:43

Time	Temp.	E.C.	pH	Turbidity	Volume
2:35	61.8	1240	7.10	—	1
2:36	61.9	1210	7.06	—	2
2:37	62.3	1199	6.99	—	3
2:38	62.7	1193	6.98	—	4

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
 2" Locking Cap: _____ Lock #3753: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

Client: Ultramar

Sampling Date: 11-15-00

Site: Beacon #720

Project No.: 94-720-01

1088 Marina Blvd.

Well Designation: MW-8

San Leandro, Ca

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in well box? NO YES Above TOC Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): 5
 Well cover type: 8" UV _____ 12" UV _____ 12" EMCO _____ 8" BK _____
 12" BK _____ 12" DWP _____ 12" CNI 36" CNI _____ Other _____
 General condition of wellhead assembly: Excellent Good Fair Poor

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 2:14 Time: 4:40 Calculated purge: 8.2
 Depth of well: 27.90 Depth to water: 15.60 Actual purge: 8.2
 Depth to water: 14.94

Start purge: 4:32 Sampling time: 4:41

Time	Temp.	E.C.	pH	Turbidity	Volume
4:33	62.3	1340	7.40	—	1
4:34	62.7	1310	7.34	—	2
4:35	62.8	1289	7.30	—	3
4:36	63.0	1284	7.27	—	4

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
 2" Locking Cap: _____ Lock #3753: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

Client: Ultramar
 Site: Beacon #720
1088 Marina Blvd.
San Leandro, Ca

Sampling Date: 11-15-00
 Project No.: 94-720-01
 Well Designation: MW-9

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in well box? NO YES Above TOC Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): _____
 Well cover type: 8" UV _____ 12" UV _____ 12" EMCO _____ 8" BK _____
 12" BK _____ 12" DWP _____ 12" CNI 36" CNI _____ Other _____
 General condition of wellhead assembly: Excellent Good Fair Poor

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" _____ 4" 6" _____ 8" _____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 2:20 Time: 5:30 Calculated purge: 28.6
 Depth of well: 24.62 Depth to water: 14.40 Actual purge: 28.6
 Depth to water: 13.60

Start purge: 5:11 Sampling time: 5:32

Time	Temp.	E.C.	pH	Turbidity	Volume
5:12	61.0	1506	7.50	—	1
5:14	62.3	1480	7.41	—	2
5:16	62.4	1410	7.40	—	3
5:18	63.1	1408	7.38	—	4

Sample appearance: Clear Lock: NA

Equipment replaced: (Check all that apply) Note condition of replaced item
 2" Locking Cap: _____ Lock #3753: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____



Report Number : 18376

Date : 12/07/2000

Richard Munsch
Doulos Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 9 Water Samples
Project Name : SAN LEANDRO 720
Project Number : 3720-54

Dear Mr. Munsch,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Joel Kiff



Report Number : 18376

Date : 12/07/2000

Project Name : **SAN LEANDRO 720**

Project Number : **3720-54**

Sample : **MW-1**

Matrix : Water

Lab Number : 18376-01

Sample Date :11/15/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 20	20	ug/L	EPA 8260B	11/28/2000
Toluene	< 20	20	ug/L	EPA 8260B	11/28/2000
Ethylbenzene	470	20	ug/L	EPA 8260B	11/28/2000
Total Xylenes	390	20	ug/L	EPA 8260B	11/28/2000
Methyl-t-butyl ether (MTBE)	14000	20	ug/L	EPA 8260B	11/28/2000
TPH as Gasoline	8500	2000	ug/L	EPA 8260B	11/28/2000
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	11/28/2000
4-Bromofluorobenzene (Surr)	97.9		% Recovery	EPA 8260B	11/28/2000

Sample : **MW-2**

Matrix : Water

Lab Number : 18376-02

Sample Date :11/15/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	75	1.0	ug/L	EPA 8260B	11/29/2000
Toluene	48	1.0	ug/L	EPA 8260B	11/29/2000
Ethylbenzene	1200	200	ug/L	EPA 8260B	11/28/2000
Total Xylenes	2800	200	ug/L	EPA 8260B	11/28/2000
Methyl-t-butyl ether (MTBE)	19000	200	ug/L	EPA 8260B	11/28/2000
TPH as Gasoline	16000	100	ug/L	EPA 8260B	11/29/2000
Toluene - d8 (Surr)	97.9		% Recovery	EPA 8260B	11/29/2000
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	11/29/2000

Approved By:  Joel Kiff



Report Number : 18376

Date : 12/07/2000

Project Name : **SAN LEANDRO 720**

Project Number : **3720-54**

Sample : **MW-3**

Matrix : Water

Lab Number : 18376-03

Sample Date :11/15/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 200	200	ug/L	EPA 8260B	11/28/2000
Toluene	< 200	200	ug/L	EPA 8260B	11/28/2000
Ethylbenzene	< 200	200	ug/L	EPA 8260B	11/28/2000
Total Xylenes	< 200	200	ug/L	EPA 8260B	11/28/2000
Methyl-t-butyl ether (MTBE)	84000	200	ug/L	EPA 8260B	11/28/2000
TPH as Gasoline	< 20000	20000	ug/L	EPA 8260B	11/28/2000
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	11/28/2000
4-Bromofluorobenzene (Surr)	98.8		% Recovery	EPA 8260B	11/28/2000

Sample : **MW-4**

Matrix : Water

Lab Number : 18376-04

Sample Date :11/15/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	12	2.0	ug/L	EPA 8260B	11/29/2000
Toluene	38	2.0	ug/L	EPA 8260B	11/29/2000
Ethylbenzene	28	2.0	ug/L	EPA 8260B	11/29/2000
Total Xylenes	130	2.0	ug/L	EPA 8260B	11/29/2000
Methyl-t-butyl ether (MTBE)	1300	2.0	ug/L	EPA 8260B	11/29/2000
TPH as Gasoline	710	200	ug/L	EPA 8260B	11/29/2000
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	11/29/2000
4-Bromofluorobenzene (Surr)	98.2		% Recovery	EPA 8260B	11/29/2000

Approved By:  Joel Kiff



Report Number : 18376

Date : 12/07/2000

Project Name : **SAN LEANDRO 720**

Project Number : **3720-54**

Sample : **MW-5**

Matrix : Water

Lab Number : 18376-05

Sample Date :11/15/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	36	0.50	ug/L	EPA 8260B	11/28/2000
Toluene	1.6	0.50	ug/L	EPA 8260B	11/28/2000
Ethylbenzene	180	0.50	ug/L	EPA 8260B	11/28/2000
Total Xylenes	180	0.50	ug/L	EPA 8260B	11/28/2000
Methyl-t-butyl ether (MTBE)	10	0.50	ug/L	EPA 8260B	11/28/2000
TPH as Gasoline	4500	100	ug/L	EPA 8260B	11/29/2000
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	11/28/2000
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	11/28/2000

Sample : **MW-6**

Matrix : Water

Lab Number : 18376-06

Sample Date :11/15/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/28/2000
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/28/2000
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/28/2000
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/28/2000
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	11/28/2000
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	11/28/2000
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	11/28/2000
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	11/28/2000

Approved By:  Joel Kiff



Report Number : 18376

Date : 12/07/2000

Project Name : **SAN LEANDRO 720**

Project Number : **3720-54**

Sample : **MW-7**

Matrix : Water

Lab Number : 18376-07

Sample Date :11/15/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/28/2000
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/28/2000
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/28/2000
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/28/2000
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	11/28/2000
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	11/28/2000
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	11/28/2000
4-Bromofluorobenzene (Surr)	97.8		% Recovery	EPA 8260B	11/28/2000

Sample : **MW-8**

Matrix : Water

Lab Number : 18376-08

Sample Date :11/15/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	2.0	0.50	ug/L	EPA 8260B	11/28/2000
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/28/2000
Ethylbenzene	3.1	0.50	ug/L	EPA 8260B	11/28/2000
Total Xylenes	2.6	0.50	ug/L	EPA 8260B	11/28/2000
Methyl-t-butyl ether (MTBE)	110	0.50	ug/L	EPA 8260B	11/28/2000
TPH as Gasoline	100	50	ug/L	EPA 8260B	11/28/2000
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	11/28/2000
4-Bromofluorobenzene (Surr)	98.3		% Recovery	EPA 8260B	11/28/2000

Approved By:  Joel Kiff



Report Number : 18376

Date : 12/07/2000

Project Name : **SAN LEANDRO 720**

Project Number : **3720-54**

Sample : **MW-9**

Matrix : Water

Lab Number : 18376-09

Sample Date :11/15/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/28/2000
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/28/2000
Ethylbenzene	0.69	0.50	ug/L	EPA 8260B	11/28/2000
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/28/2000
Methyl-t-butyl ether (MTBE)	12	0.50	ug/L	EPA 8260B	11/28/2000
TPH as Gasoline	200	50	ug/L	EPA 8260B	11/28/2000
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	11/28/2000
4-Bromofluorobenzene (Surr)	97.9		% Recovery	EPA 8260B	11/28/2000

Approved By:  _____
Joel Kiff



Report Number : 17974

Date : 10/6/00

Richard Munsch
Doulos Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 4 Water Samples
Project Name : Beacon 3720
Project Number : UO-3720-0002

Dear Mr. Munsch,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large, looping initial "J".

Joel Kiff



Report Number : 17974

Date : 10/6/00

Project Name : **Beacon 3720**

Project Number : **UO-3720-0002**

Sample : **MW-2-IN**

Matrix : Water

Lab Number : 17974-01

Sample Date :10/4/00

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	150	100	ug/L	EPA 8260B	10/5/00
Toluene	< 100	100	ug/L	EPA 8260B	10/5/00
Ethylbenzene	180	100	ug/L	EPA 8260B	10/5/00
Total Xylenes	390	100	ug/L	EPA 8260B	10/5/00
Methyl-t-butyl ether	91000	1000	ug/L	EPA 8260B	10/5/00
TPH as Gasoline	< 10000	10000	ug/L	EPA 8260B	10/5/00
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	10/5/00
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	10/5/00

Sample : **MW-2-FI**

Matrix : Water

Lab Number : 17974-02

Sample Date :10/4/00

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	78	50	ug/L	EPA 8260B	10/5/00
Toluene	54	50	ug/L	EPA 8260B	10/5/00
Ethylbenzene	420	50	ug/L	EPA 8260B	10/5/00
Total Xylenes	1100	50	ug/L	EPA 8260B	10/5/00
Methyl-t-butyl ether	27000	500	ug/L	EPA 8260B	10/5/00
TPH as Gasoline	8000	5000	ug/L	EPA 8260B	10/5/00
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/5/00
4-Bromofluorobenzene (Surr)	98.2		% Recovery	EPA 8260B	10/5/00

Approved By:  Joel Kiff



Report Number : 17974

Date : 10/6/00

Project Name : **Beacon 3720**

Project Number : **UO-3720-0002**

Sample : **MW-3-IN**

Matrix : Water

Lab Number : 17974-03

Sample Date :10/4/00

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 200	200	ug/L	EPA 8260B	10/5/00
Toluene	< 200	200	ug/L	EPA 8260B	10/5/00
Ethylbenzene	< 200	200	ug/L	EPA 8260B	10/5/00
Total Xylenes	< 200	200	ug/L	EPA 8260B	10/5/00
Methyl-t-butyl ether	150000	2000	ug/L	EPA 8260B	10/5/00
TPH as Gasoline	< 20000	20000	ug/L	EPA 8260B	10/5/00
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	10/5/00
4-Bromofluorobenzene (Surr)	97.8		% Recovery	EPA 8260B	10/5/00

Sample : **MW-3-FI**

Matrix : Water

Lab Number : 17974-04

Sample Date :10/4/00

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	60	2.0	ug/L	EPA 8260B	10/5/00
Toluene	12	2.0	ug/L	EPA 8260B	10/5/00
Ethylbenzene	54	2.0	ug/L	EPA 8260B	10/5/00
Total Xylenes	23	2.0	ug/L	EPA 8260B	10/5/00
Methyl-t-butyl ether	100000	2000	ug/L	EPA 8260B	10/5/00
TPH as Gasoline	2600	200	ug/L	EPA 8260B	10/5/00
Toluene - d8 (Surr)	97.0		% Recovery	EPA 8260B	10/5/00
4-Bromofluorobenzene (Surr)	96.3		% Recovery	EPA 8260B	10/5/00

Approved By: Joel Kiff



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON
17974

Beacon Station No. 3720		Sampler (Print Name) Richard Munsey			ANALYSES		Date 10/5/00	Form No. (of) 1
Project No. UO-3720-0002		Sampler (Signature) <i>[Signature]</i>			BTEX TPH (gasoline) TPH (diesel) ATOE 2270 2020 Rain	No. of Containers	REMARKS Standard 24hr.	
Project Location San Leandro		Affiliation Doulos						
Sample No./Identification	Date	Time	Lab No.					
MW-2-IN	10/4	5:58	-01					
MW-2-FI	10/4	8:50	-02					
MW-3-IN	10/4	8:40	-03					
MW-3-FI	10/4	9:20	-04					
Relinquished by: (Signature/Affiliation) <i>[Signature]</i> / Doulos		Date 10/4	Time 15:20	Received by: (Signature/Affiliation)		Date	Time	
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)		Date	Time	
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation) <i>[Signature]</i> / Kill Analytical		Date 10/11/00 10/5/00	Time 15:20	
Report To: Richard Munsey / Doulos				Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: <u>Joe Aldridge</u>				

WHITE: Return to Client with Report

YELLOW: Laboratory Copy

PINK: Originator Copy



Report Number : 18094

Date : 10/24/2000

Richard Munsch
Doulos Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 2 Water Samples
Project Name : San Leandro CA
Project Number : 00-3720
P.O. Number : 3720

Dear Mr. Munsch,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Joel Kiff



Report Number : 18094

Date : 10/24/2000

Project Name : **San Leandro CA**

Project Number : **00-3720**

Sample : **MW-2**

Matrix : Water

Lab Number : 18094-01

Sample Date :10/17/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	160	20	ug/L	EPA 8260B	10/19/2000
Toluene	140	20	ug/L	EPA 8260B	10/19/2000
Ethylbenzene	2200	20	ug/L	EPA 8260B	10/19/2000
Total Xylenes	6100	20	ug/L	EPA 8260B	10/19/2000
Methyl-t-butyl ether (MTBE)	26000	50	ug/L	EPA 8260B	10/21/2000
TPH as Gasoline	86000	2000	ug/L	EPA 8260B	10/19/2000
Toluene - d8 (Surr)	94.8		% Recovery	EPA 8260B	10/19/2000
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	10/19/2000

Sample : **MW-3**

Matrix : Water

Lab Number : 18094-02

Sample Date :10/17/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	57	50	ug/L	EPA 8260B	10/19/2000
Toluene	< 50	50	ug/L	EPA 8260B	10/19/2000
Ethylbenzene	50	50	ug/L	EPA 8260B	10/19/2000
Total Xylenes	< 50	50	ug/L	EPA 8260B	10/19/2000
Methyl-t-butyl ether (MTBE)	110000	200	ug/L	EPA 8260B	10/21/2000
TPH as Gasoline	5200	5000	ug/L	EPA 8260B	10/19/2000
Toluene - d8 (Surr)	94.8		% Recovery	EPA 8260B	10/19/2000
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8260B	10/19/2000

Approved By:  Joel Kiff



Report Number : 18472

Date : 12/17/00

Alex Chua
TRC Alton Geoscience
9471 Ridgehaven Ct., Suite E
San Diego, CA 92123

Subject : 4 Water Samples and 6 Air Samples
Project Name : BEACON 720
Project Number : 60048101

Dear Mr. Chua,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is stylized and written in cursive.

Joel Kiff



Report Number : 18472

Date : 12/17/00

Project Name : **BEACON 720**

Project Number : **60048101**

Sample : **MW-2-INF. BEACON 720**

Matrix : Air

Lab Number : 18472-01

Sample Date :11/29/00

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.31	0.20	Molar ppm	EPA 8260B	11/30/00
Toluene	1.4	0.20	Molar ppm	EPA 8260B	11/30/00
Ethylbenzene	1.4	0.20	Molar ppm	EPA 8260B	11/30/00
Total Xylenes	5.7	0.20	Molar ppm	EPA 8260B	11/30/00
Methyl-t-butyl ether (MTBE)	30	0.20	Molar ppm	EPA 8260B	11/30/00
Diisopropyl ether (DIPE)	< 0.20	0.20	Molar ppm	EPA 8260B	11/30/00
Ethyl-t-butyl ether (ETBE)	< 0.20	0.20	Molar ppm	EPA 8260B	11/30/00
Tert-amyl methyl ether (TAME)	< 0.20	0.20	Molar ppm	EPA 8260B	11/30/00
Tert-Butanol	< 2.0	2.0	Molar ppm	EPA 8260B	11/30/00
TPH as Gasoline	70	20	Molar ppm	EPA 8260B	11/30/00
Dibromofluoromethane (Surr)	95.2		% Recovery	EPA 8260B	11/30/00
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	11/30/00

Approved By:  Joel Kiff



Report Number : 18472

Date : 12/17/00

Project Name : **BEACON 720**

Project Number : **60048101**

Sample : **MW-2-EFF, BEACON 720**

Matrix : Air

Lab Number : 18472-02

Sample Date : 11/29/00

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	11/30/00
Toluene	0.31	0.050	Molar ppm	EPA 8260B	11/30/00
Ethylbenzene	0.14	0.050	Molar ppm	EPA 8260B	11/30/00
Total Xylenes	0.60	0.050	Molar ppm	EPA 8260B	11/30/00
Methyl-t-butyl ether (MTBE)	< 0.050	0.050	Molar ppm	EPA 8260B	11/30/00
Diisopropyl ether (DIPE)	< 0.050	0.050	Molar ppm	EPA 8260B	11/30/00
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	Molar ppm	EPA 8260B	11/30/00
Tert-amyl methyl ether (TAME)	< 0.050	0.050	Molar ppm	EPA 8260B	11/30/00
Tert-Butanol	< 0.50	0.50	Molar ppm	EPA 8260B	11/30/00
TPH as Gasoline	12	5.0	Molar ppm	EPA 8260B	11/30/00
Dibromofluoromethane (Surr)	96.0		% Recovery	EPA 8260B	11/30/00
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	11/30/00

Approved By:  Joel Kiff



Report Number : 18472

Date : 12/17/00

Project Name : **BEACON 720**

Project Number : **60048101**

Sample : **MW-2-INF. BEACON 720**

Matrix : Air

Lab Number : 18472-03

Sample Date : 11/29/00

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.56	0.10	Molar ppm	EPA 8260B	11/30/00
Toluene	2.4	0.10	Molar ppm	EPA 8260B	11/30/00
Ethylbenzene	3.5	0.10	Molar ppm	EPA 8260B	11/30/00
Total Xylenes	13	0.10	Molar ppm	EPA 8260B	11/30/00
Methyl-t-butyl ether (MTBE)	43	0.10	Molar ppm	EPA 8260B	11/30/00
Diisopropyl ether (DIPE)	< 0.10	0.10	Molar ppm	EPA 8260B	11/30/00
Ethyl-t-butyl ether (ETBE)	< 0.10	0.10	Molar ppm	EPA 8260B	11/30/00
Tert-amyl methyl ether (TAME)	< 0.10	0.10	Molar ppm	EPA 8260B	11/30/00
Tert-Butanol	< 1.0	1.0	Molar ppm	EPA 8260B	11/30/00
TPH as Gasoline	220	10	Molar ppm	EPA 8260B	11/30/00
Dibromofluoromethane (Surr)	95.3		% Recovery	EPA 8260B	11/30/00
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	11/30/00

Approved By:  Joel Kiff



Report Number : 18472

Date : 12/17/00

Project Name : **BEACON 720**

Project Number : **60048101**

Sample : **MW-2-EFF. BEACON 720**

Matrix : Air

Lab Number : 18472-04

Sample Date : 11/29/00

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	11/29/00
Toluene	0.36	0.050	Molar ppm	EPA 8260B	11/29/00
Ethylbenzene	0.16	0.050	Molar ppm	EPA 8260B	11/29/00
Total Xylenes	0.70	0.050	Molar ppm	EPA 8260B	11/29/00
Methyl-t-butyl ether (MTBE)	< 0.050	0.050	Molar ppm	EPA 8260B	11/29/00
Diisopropyl ether (DIPE)	< 0.050	0.050	Molar ppm	EPA 8260B	11/29/00
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	Molar ppm	EPA 8260B	11/29/00
Tert-amyl methyl ether (TAME)	< 0.050	0.050	Molar ppm	EPA 8260B	11/29/00
Tert-Butanol	< 0.50	0.50	Molar ppm	EPA 8260B	11/29/00
TPH as Gasoline	14	5.0	Molar ppm	EPA 8260B	11/29/00
Dibromofluoromethane (Surr)	96.7		% Recovery	EPA 8260B	11/29/00
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	11/29/00

Approved By:  Joel Kiff



Report Number : 18472

Date : 12/17/00

Project Name : **BEACON 720**

Project Number : **60048101**

Sample : **MW-3-INF. BEACON 720**

Matrix : Air

Lab Number : 18472-05

Sample Date : 11/29/00

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.28	0.20	Molar ppm	EPA 8260B	11/30/00
Toluene	1.3	0.20	Molar ppm	EPA 8260B	11/30/00
Ethylbenzene	0.57	0.20	Molar ppm	EPA 8260B	11/30/00
Total Xylenes	3.2	0.20	Molar ppm	EPA 8260B	11/30/00
Methyl-t-butyl ether (MTBE)	97	0.20	Molar ppm	EPA 8260B	11/30/00
Diisopropyl ether (DIPE)	< 0.20	0.20	Molar ppm	EPA 8260B	11/30/00
Ethyl-t-butyl ether (ETBE)	< 0.20	0.20	Molar ppm	EPA 8260B	11/30/00
Tert-amyl methyl ether (TAME)	< 0.20	0.20	Molar ppm	EPA 8260B	11/30/00
Tert-Butanol	3.3	2.0	Molar ppm	EPA 8260B	11/30/00
TPH as Gasoline	58	20	Molar ppm	EPA 8260B	11/30/00
Dibromofluoromethane (Surr)	95.6		% Recovery	EPA 8260B	11/30/00
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	11/30/00

Approved By:  Joel Kiff



Report Number : 18472

Date : 12/17/00

Project Name : **BEACON 720**

Project Number : **60048101**

Sample : **MW-3-EFF. BEACON 720**

Matrix : Air

Lab Number : 18472-06

Sample Date : 11/29/00

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	11/30/00
Toluene	0.29	0.050	Molar ppm	EPA 8260B	11/30/00
Ethylbenzene	0.13	0.050	Molar ppm	EPA 8260B	11/30/00
Total Xylenes	0.54	0.050	Molar ppm	EPA 8260B	11/30/00
Methyl-t-butyl ether (MTBE)	< 0.050	0.050	Molar ppm	EPA 8260B	11/30/00
Diisopropyl ether (DIPE)	< 0.050	0.050	Molar ppm	EPA 8260B	11/30/00
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	Molar ppm	EPA 8260B	11/30/00
Tert-amyl methyl ether (TAME)	< 0.050	0.050	Molar ppm	EPA 8260B	11/30/00
Tert-Butanol	< 0.50	0.50	Molar ppm	EPA 8260B	11/30/00
TPH as Gasoline	11	5.0	Molar ppm	EPA 8260B	11/30/00
Dibromofluoromethane (Surr)	98.1		% Recovery	EPA 8260B	11/30/00
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	11/30/00

Approved By:  Joel Kiff



Report Number : 18472

Date : 12/17/00

Project Name : BEACON 720

Project Number : 60048101

Sample : MW-2 PRE BEACON 720

Matrix : Water

Lab Number : 18472-07

Sample Date : 11/29/00

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	62	20	ug/L	EPA 8260B	12/10/00
Toluene	66	20	ug/L	EPA 8260B	12/10/00
Ethylbenzene	1000	20	ug/L	EPA 8260B	12/10/00
Total Xylenes	3800	20	ug/L	EPA 8260B	12/10/00
Methyl-t-butyl ether (MTBE)	12000	20	ug/L	EPA 8260B	12/10/00
Diisopropyl ether (DIPE)	< 20	20	ug/L	EPA 8260B	12/10/00
Ethyl-t-butyl ether (ETBE)	< 20	20	ug/L	EPA 8260B	12/10/00
Tert-amyl methyl ether (TAME)	26	20	ug/L	EPA 8260B	12/10/00
Tert-Butanol	980	200	ug/L	EPA 8260B	12/10/00
TPH as Gasoline	19000	2000	ug/L	EPA 8260B	12/10/00
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	12/10/00
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/10/00

Approved By:  Joel Kiff



Report Number : 18472

Date : 12/17/00

Project Name : **BEACON 720**

Project Number : **60048101**

Sample : **MW-3 PRE BEACON 720**

Matrix : Water

Lab Number : 18472-08

Sample Date :11/29/00

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	94	50	ug/L	EPA 8260B	12/10/00
Toluene	< 50	50	ug/L	EPA 8260B	12/10/00
Ethylbenzene	77	50	ug/L	EPA 8260B	12/10/00
Total Xylenes	< 50	50	ug/L	EPA 8260B	12/10/00
Methyl-t-butyl ether (MTBE)	68000	200	ug/L	EPA 8260B	12/12/00
Diisopropyl ether (DIPE)	< 50	50	ug/L	EPA 8260B	12/10/00
Ethyl-t-butyl ether (ETBE)	< 50	50	ug/L	EPA 8260B	12/10/00
Tert-amyl methyl ether (TAME)	140	50	ug/L	EPA 8260B	12/10/00
Tert-Butanol	5400	500	ug/L	EPA 8260B	12/10/00
TPH as Gasoline	< 5000	5000	ug/L	EPA 8260B	12/10/00
Toluene - d8 (Surr)	97.8		% Recovery	EPA 8260B	12/10/00
4-Bromofluorobenzene (Surr)	98.4		% Recovery	EPA 8260B	12/10/00

Approved By:  Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800



Report Number : 18472

Date : 12/17/00

Project Name : **BEACON 720**

Project Number : **60048101**

Sample : **MW-2 POST BEACON 720**

Matrix : Water

Lab Number : 18472-09

Sample Date : 11/29/00

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	41	0.50	ug/L	EPA 8260B	12/10/00
Toluene	5.9	0.50	ug/L	EPA 8260B	12/10/00
Ethylbenzene	110	0.50	ug/L	EPA 8260B	12/10/00
Total Xylenes	240	0.50	ug/L	EPA 8260B	12/10/00
Methyl-t-butyl ether (MTBE)	16000	50	ug/L	EPA 8260B	12/12/00
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/10/00
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/10/00
Tert-amyl methyl ether (TAME)	22	0.50	ug/L	EPA 8260B	12/10/00
Tert-Butanol	650	5.0	ug/L	EPA 8260B	12/10/00
TPH as Gasoline	3600	50	ug/L	EPA 8260B	12/10/00
Toluene - d8 (Surr)	91.0		% Recovery	EPA 8260B	12/10/00
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	12/10/00

Approved By:  Joel Kiff



Report Number : 18472

Date : 12/17/00

Project Name : **BEACON 720**

Project Number : **60048101**

Sample : **MW-3 POST BEACON 720**

Matrix : Water

Lab Number : 18472-10

Sample Date : 11/29/00

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 100	100	ug/L	EPA 8260B	12/10/00
Toluene	< 100	100	ug/L	EPA 8260B	12/10/00
Ethylbenzene	< 100	100	ug/L	EPA 8260B	12/10/00
Total Xylenes	< 100	100	ug/L	EPA 8260B	12/10/00
Methyl-t-butyl ether (MTBE)	61000	100	ug/L	EPA 8260B	12/10/00
Diisopropyl ether (DIPE)	< 100	100	ug/L	EPA 8260B	12/10/00
Ethyl-t-butyl ether (ETBE)	< 100	100	ug/L	EPA 8260B	12/10/00
Tert-amyl methyl ether (TAME)	120	100	ug/L	EPA 8260B	12/10/00
Tert-Butanol	4500	1000	ug/L	EPA 8260B	12/10/00
TPH as Gasoline	< 10000	10000	ug/L	EPA 8260B	12/10/00
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/10/00
4-Bromofluorobenzene (Surr)	98.7		% Recovery	EPA 8260B	12/10/00

Approved By:  Joel Kiff



Report Number : 18575

Date : 01/02/2001

Alex Chua
TRC Alton Geoscience
9471 Ridgehaven Ct., Suite E
San Diego, CA 92123

Subject : 4 Water Samples and 1 Air Sample
Project Name : BEACON 720
Project Number : 60048101

Dear Mr. Chua,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff



Report Number : 18575

Date : 01/02/2001

Project Name : **BEACON 720**

Project Number : **60048101**

Sample : **MW-2-PRE**

Matrix : Water

Lab Number : 18575-01

Sample Date :12/04/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	87	20	ug/L	EPA 8260B	12/18/2000
Toluene	82	20	ug/L	EPA 8260B	12/18/2000
Ethylbenzene	1300	20	ug/L	EPA 8260B	12/18/2000
Total Xylenes	4400	20	ug/L	EPA 8260B	12/18/2000
Methyl-t-butyl ether (MTBE)	7900	20	ug/L	EPA 8260B	12/18/2000
Diisopropyl ether (DIPE)	< 20	20	ug/L	EPA 8260B	12/18/2000
Ethyl-t-butyl ether (ETBE)	< 20	20	ug/L	EPA 8260B	12/18/2000
Tert-amyl methyl ether (TAME)	< 20	20	ug/L	EPA 8260B	12/18/2000
Tert-Butanol	580	200	ug/L	EPA 8260B	12/18/2000
TPH as Gasoline	22000	2000	ug/L	EPA 8260B	12/18/2000
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	12/18/2000
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/18/2000

Approved By:  Joel Kiff



Report Number : 18575

Date : 01/02/2001

Project Name : **BEACON 720**

Project Number : **60048101**

Sample : **MW-3-PRE**

Matrix : Water

Lab Number : 18575-02

Sample Date :12/04/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	93	50	ug/L	EPA 8260B	12/15/2000
Toluene	< 50	50	ug/L	EPA 8260B	12/15/2000
Ethylbenzene	74	50	ug/L	EPA 8260B	12/15/2000
Total Xylenes	< 50	50	ug/L	EPA 8260B	12/15/2000
Methyl-t-butyl ether (MTBE)	65000	200	ug/L	EPA 8260B	12/16/2000
Diisopropyl ether (DIPE)	< 50	50	ug/L	EPA 8260B	12/15/2000
Ethyl-t-butyl ether (ETBE)	< 50	50	ug/L	EPA 8260B	12/15/2000
Tert-amyl methyl ether (TAME)	96	50	ug/L	EPA 8260B	12/15/2000
Tert-Butanol	6000	500	ug/L	EPA 8260B	12/15/2000
TPH as Gasoline	< 5000	5000	ug/L	EPA 8260B	12/15/2000
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	12/15/2000
4-Bromofluorobenzene (Surr)	97.4		% Recovery	EPA 8260B	12/15/2000

Approved By:  Joel Kiff



Report Number : 18575

Date : 01/02/2001

Project Name : BEACON 720

Project Number : 60048101

Sample : MW-2-POST

Matrix : Water

Lab Number : 18575-03

Sample Date :12/04/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	51	20	ug/L	EPA 8260B	12/15/2000
Toluene	< 20	20	ug/L	EPA 8260B	12/15/2000
Ethylbenzene	92	20	ug/L	EPA 8260B	12/15/2000
Total Xylenes	190	20	ug/L	EPA 8260B	12/15/2000
Methyl-t-butyl ether (MTBE)	12000	20	ug/L	EPA 8260B	12/15/2000
Diisopropyl ether (DIPE)	< 20	20	ug/L	EPA 8260B	12/15/2000
Ethyl-t-butyl ether (ETBE)	< 20	20	ug/L	EPA 8260B	12/15/2000
Tert-amyl methyl ether (TAME)	< 20	20	ug/L	EPA 8260B	12/15/2000
Tert-Butanol	990	200	ug/L	EPA 8260B	12/15/2000
TPH as Gasoline	3300	2000	ug/L	EPA 8260B	12/15/2000
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	12/15/2000
4-Bromofluorobenzene (Surr)	97.9		% Recovery	EPA 8260B	12/15/2000

Approved By:  _____
Joel Kiff



Report Number : 18575

Date : 01/02/2001

Project Name : **BEACON 720**

Project Number : **60048101**

Sample : **MW-3-POST**

Matrix : Water

Lab Number : 18575-04

Sample Date :12/04/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 100	100	ug/L	EPA 8260B	12/16/2000
Toluene	< 100	100	ug/L	EPA 8260B	12/16/2000
Ethylbenzene	< 100	100	ug/L	EPA 8260B	12/16/2000
Total Xylenes	< 100	100	ug/L	EPA 8260B	12/16/2000
Methyl-t-butyl ether (MTBE)	47000	100	ug/L	EPA 8260B	12/16/2000
Diisopropyl ether (DIPE)	< 100	100	ug/L	EPA 8260B	12/16/2000
Ethyl-t-butyl ether (ETBE)	< 100	100	ug/L	EPA 8260B	12/16/2000
Tert-amyl methyl ether (TAME)	100	100	ug/L	EPA 8260B	12/16/2000
Tert-Butanol	2700	1000	ug/L	EPA 8260B	12/16/2000
TPH as Gasoline	< 10000	10000	ug/L	EPA 8260B	12/16/2000
Toluene - d8 (Surr)	97.9		% Recovery	EPA 8260B	12/16/2000
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	12/16/2000

Approved By:  _____
Joel Kiff



Report Number : 18575

Date : 01/02/2001

Project Name : BEACON 720

Project Number : 60048101

Sample : MW-2-INF

Matrix : Air

Lab Number : 18575-05

Sample Date :12/04/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.59	0.10	Molar ppm	EPA 8260B	12/07/2000
Toluene	1.3	0.10	Molar ppm	EPA 8260B	12/07/2000
Ethylbenzene	4.6	0.10	Molar ppm	EPA 8260B	12/07/2000
Total Xylenes	12	0.10	Molar ppm	EPA 8260B	12/07/2000
TPH as Gasoline	450	10	Molar ppm	EPA 8260B	12/07/2000
Methyl-t-butyl ether (MTBE)	67	0.20	Molar ppm	EPA 8260B	12/07/2000
Diisopropyl ether (DIPE)	< 0.10	0.10	Molar ppm	EPA 8260B	12/07/2000
Ethyl-t-butyl ether (ETBE)	< 0.10	0.10	Molar ppm	EPA 8260B	12/07/2000
Tert-amyl methyl ether (TAME)	< 0.10	0.10	Molar ppm	EPA 8260B	12/07/2000
Tert-Butanol	1.3	1.0	Molar ppm	EPA 8260B	12/07/2000
Toluene - d8 (Surr)	94.6		% Recovery	EPA 8260B	12/07/2000
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	12/07/2000

Approved By:  Joel Kiff

ENCLOSURE D

Soil Vapor Extraction System Performance Data

TABLE 1

SVE SYSTEM THROUGHPUT CALCULATIONS

Beacon Station No. 3720
 1088 Marina Boulevard
 San Leandro, California

Date	Influent Flow Rate (ft ³ /min)	Effluent Flow Rate (ft ³ /min)	TPH Influent (ppmv)	TPH Effluent (ppmv)	Benzene Influent (ppmv)	Benzene Effluent (ppmv)	TPH Removal (%)	Benzene Removal (%)	TPH Extraction Rate (lbs/day)	TPH Mass Emission (lbs/day)	Benzene Extraction Rate (lbs/day)	Benzene Emission Rate (lbs/day)	FID or LAB	Cumulative TPH Extraction (lbs)	Cumulative TPH Extraction (gallons)	Total Hours	Change in hours of operation
08/18/98	---	---	---	---	---	---	---	---	---	---	---	---	---	1,715	---	---	---
09/10/98	98	98	16	<5.0	0.16	<0.05	NC	NC	0.50	<0.16	0.005	<0.002	LAB	1,721	282	2,587	552
09/23/98	98	98	9.4	<5.0	0.16	<0.05	NC	NC	0.29	<0.16	0.005	<0.002	LAB	1,726	283	2,907	320
10/20/98	59	59	28	<5.0	0.63	<0.05	NC	NC	0.53	<0.09	0.012	<0.001	LAB	1,727	283	2,962	55
12/08/98	49	49	43	<5.0	0.73	<0.05	NC	NC	0.67	<0.08	0.011	<0.001	LAB	1,727	283	3,803	0*
01/13/99	49	49	6.5	5.4	0.068	<0.05	16.9	NC	0.10	0.08	0.001	<0.001	LAB	1,738	285	4,495	692
02/10/99	44	44	56	<5.0	1.1	<0.05	NC	NC	0.79	<0.07	0.016	<0.001	LAB	1,738	285	4,496	1
03/10/99	15	15	<5.0	<5.0	0.07	<0.05	NC	NC	<0.02	<0.02	0.001	<0.001	LAB	1,750	287	5,172	676
06/08/99	35	35	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.06	<0.06	<0.001	<0.001	LAB	1,750	287	5,173	1
07/12/99	39	39	11	<5.0	0.16	<0.05	NC	NC	0.14	<0.06	0.002	<0.001	LAB	1,753	287	5,982	809
08/04/99	39	39	12	<5.0	0.092	<0.05	NC	NC	0.15	<0.06	0.001	<0.001	LAB	1,756	288	6,534	552
09/07/99	39	39	16	<5.0	0.069	<0.05	NC	NC	0.20	<0.06	0.001	<0.001	LAB	1,762	289	7,351	817
10/12/99	54	54	150	<5.0	0.96	<0.05	NC	NC	2.59	<0.09	0.015	<0.001	LAB	1,772	290	7,998	167**
11/17/99	49	49	21	<5.0	0.22	<0.05	NC	NC	0.33	<0.08	0.003	<0.001	LAB	1,825	299	8,866	868
12/28/00	49	49	570	<5.0	1.2	<0.05	NC	NC	8.96	<0.08	0.017	<0.001	LAB	1,825	299	8,867	1
01/12/00	79	79	110	<5.0	0.45	<0.05	NC	NC	2.77	<0.13	0.010	<0.001	LAB	1,907	313	9,202	335
01/26/00	79	79	14	<5.0	0.059	<0.05	NC	NC	0.35	<0.13	0.001	<0.001	LAB	1,929	316	9,540	338
02/09/00	79	79	59	<5.0	0.45	<0.05	NC	NC	1.48	<0.13	0.010	<0.001	LAB	1,933	317	9,662	122
03/16/00	79	79	46	<5.0	0.1	<0.05	NC	NC	1.16	<0.13	0.002	<0.001	LAB	1,981	325	10,525	863
04/04/00	41	41	23	<5.0	0.17	<0.05	NC	NC	0.30	<0.07	0.002	<0.001	LAB	1,981	325	10,526	2
05/12/00	41	41	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.07	<0.07	<0.001	<0.001	LAB	1,986	326	11,164	638
06/19/00	41	41	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.07	<0.07	<0.001	<0.001	LAB	1,988	326	12,071	907
07/11/00	41	41	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.07	<0.07	<0.001	<0.001	LAB	1,990	326	12,601	530
07/25/00	41	41	140	<5.4	2.4	<0.05	96.1	NC	1.85	0.07	0.029	<0.001	LAB	2,003	328	12,937	336
08/09/00	41	41	2200	<5.0	25	<0.05	NC	NC	29.05	<0.07	0.299	<0.001	LAB	2,004	329	12,938	1
09/06/00	41	41	6.8	<5.0	<0.05	<0.05	NC	NC	0.09	<0.07	<0.001	<0.001	LAB	2,409	395	13,606	668

TABLE 1

SVE SYSTEM THROUGHPUT CALCULATIONS

Beacon Station No. 3720
 1088 Marina Boulevard
 San Leandro, California

Date	Influent Flow Rate (ft ³ /min)	Effluent Flow Rate (ft ³ /min)	TPH Influent (ppmv)	TPH Effluent (ppmv)	Benzene Influent (ppmv)	Benzene Effluent (ppmv)	TPH Removal (%)	Benzene Removal (%)	TPH Extraction Rate (lbs/day)	TPH Mass Emission (lbs/day)	Benzene Extraction Rate (lbs/day)	Benzene Emission Rate (lbs/day)	FID or LAB	Cumulative TPH Extraction (lbs)	Cumulative TPH Extraction (gallons)	Total Hours	Change in hours of operation
10/17/00	40	40	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.06	< 0.06	< 0.001	< 0.001	LAB	2,411	395	14,054	448
11/29/00	40	40	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.06	< 0.06	< 0.001	< 0.001	LAB	2,414	396	15,062	1,008
12/07/00	40	40	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.06	< 0.06	< 0.001	< 0.001	LAB	2,414	396	15,328	266

* The system was running on ambient air, thus change in hours are zero.

** The system was running on ambient air from 9/22/99 to 10/12/99, the change in hours only represents time the system was extracting soil vapor.

NC = Not Calculated

ENCLOSURE E

Historical Ground Water Monitoring Data

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Comments
MW-1	03/12/98	33.10	11.09	22.01	<0.5	<0.5	5.0	2.8	100	<5.0	No sheen
	05/28/98		11.36	21.74	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	08/31/98		12.61	20.49	<0.5	<0.5	6.4	1.4	130	<5.0	No sheen
	11/19/98		13.84	19.26	0.75	<0.5	<0.5	3.0	120	<5.0	No sheen
	03/15/99		11.95	21.15	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	06/07/99		13.45	19.65	1.6	1.9	230	110	5,200	<5.0	No sheen
	09/07/99		13.10	20.00	1.0	<0.5	22	15	490	<5.0	No sheen
	12/13/99		14.29	18.81	<2.5	<2.5	170	110	4,100	<25	No sheen
	03/08/00		11.22	21.88	<0.5	<0.5	21	7.7	1,200	150	No sheen
	06/12/00		12.85	20.25	1.5	0.9	160	98	3,000	34	No sheen
08/30/00	13.64	19.46	9.2	4.8	1,100	900	10,000	8,900	No sheen		
MW-2	03/12/98	32.80	10.92	21.88	32	1.0	12	6.5	440	20	No sheen
	05/28/98		10.41	22.39	<0.5	<0.5	<0.5	<0.5	<50	27	No sheen
	08/31/98		12.29	20.51	9.3	0.95	4.9	8.8	270	20	No sheen
	11/19/98		13.47	19.33	16	0.72	<0.5	4.3	180	7.4	No sheen
	03/15/99		11.95	20.85	12	3.5	59	840	2,400	10	No sheen
	06/07/99		13.11	19.69	21	0.99	6.9	10	690	6.1	No sheen
	09/07/99		12.92	19.88	7.8	1.2	42	100	610	<5.0	No sheen
	12/13/99		13.96	18.84	26	0.93	52	96	3,000	<5.0	No sheen
	03/08/00		10.87	21.93	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	06/12/00		12.53	20.27	51	17	170	320	5,500	18	No sheen
08/30/00	13.34	19.46	95	24	180	440	6,500	35,000	No sheen		
MW-3	03/12/98	32.30	10.81	21.49	0.67	<0.5	7.1	3.4	1,200	7.3	No sheen
	05/28/98		11.45	20.85	<0.5	0.5	<0.5	<0.5	350	<5.0	No sheen
	08/31/98		12.21	20.09	<0.5	0.89	0.69	<0.5	240	<5.0	No sheen
	11/19/98		13.26	19.04	5.3	0.72	0.86	4.2	440	<5.0	No sheen
	03/15/99		11.89	20.41	3.3	1.3	0.77	<0.5	410	<5.0	No sheen
	06/07/99		12.91	19.39	<0.5	2.0	<0.5	0.66	680	<5.0	No sheen
	09/07/99		12.81	19.49	<0.5	0.62	<0.5	8.7	150	12	No sheen
	12/13/99		13.75	18.55	<0.5	0.52	<0.5	1.0	830	<5.0	No sheen
	03/08/00		11.39	20.91	0.58	<0.5	0.77	<0.5	960	<5.0	No sheen
	06/12/00		12.58	19.72	1.7	<0.5	46	6.3	1,700	<5.0	No sheen
08/30/00	13.19	19.11	54	3.5	87	1.1	3,200	50,000	No sheen		

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Comments
MW-4	03/12/98	32.90	11.31	21.59	2,200	1,500	630	3,000	14,000	440	No sheen
	05/28/98		10.40	22.50	<0.5	0.75	0.68	6.9	67	26	No sheen
	08/31/98		12.54	20.36	1.8	2.5	0.65	3.4	<50	<5.0	No sheen
	11/19/98		13.99	18.91	<0.5	<0.5	<0.5	0.61	<50	17	No sheen
	03/15/99		12.06	20.84	1.2	1.6	0.76	4.5	160	9.3	No sheen
	06/07/99		13.57	19.33	210	370	350	2,000	5,800	<20	No sheen
	09/07/99		10.30	22.60	2.2	2.8	4.8	25	130	12	No sheen
	12/13/99		14.18	18.72	1.3	1.0	1.2	4.8	<50	12	No sheen
	03/08/00		11.77	21.13	78	200	160	750	3,700	11	No sheen
	06/12/00		13.47	19.43	<0.5	<0.5	<0.5	<0.5	<50	24	No sheen
	08/30/00		13.75	19.15	15	6.2	12	42	420	12,000	No sheen
MW-5	03/12/98	32.70	11.11	21.59	2,600	160	470	2,200	12,000	<250	No sheen
	05/28/98		10.92	21.78	480	99	160	730	4,700	<250	No sheen
	08/31/98		12.79	19.91	200	14	55	220	1,400	180	No sheen
	11/19/98		13.39	19.31	1.4	<0.5	<0.5	<0.5	<50	39	No sheen
	03/15/99		11.71	20.99	320	17	290	780	3,400	33	No sheen
	06/07/99		13.26	19.44	220	8.9	240	290	3,200	<25	No sheen
	09/07/99		9.70	23.00	8.5	<0.5	8.5	12	140	38	No sheen
	12/13/99		14.06	18.64	<0.5	<0.5	<0.5	13	140	<5.0	No sheen
	03/08/00		11.80	20.90	0.66	<0.5	2.5	30	280	<5.0	No sheen
	06/12/00		12.99	19.71	22	1.2	79	170	2,700	6.4	No sheen
	08/30/00		13.52	19.18	25	1.1	58	100	2,000	12	No sheen
MW-6	03/12/98	30.40	10.49	19.91	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	05/28/98		10.58	19.82	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	08/31/98		10.85	19.55	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	11/19/98		10.88	19.52	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	03/15/99		10.83	19.57	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	06/07/99		11.01	19.39	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	09/07/99		11.89	18.51	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	12/13/99		12.09	18.31	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	03/08/00		10.02	20.38	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	06/12/00		11.07	19.33	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	08/30/00		11.66	18.74	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Comments
MW-7	03/12/98	31.20	10.14	21.06	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	05/28/98		10.93	20.27	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	08/31/98		12.01	19.19	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	11/19/98		12.54	18.66	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	03/15/99		10.94	20.26	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	06/07/99		12.05	19.15	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	09/07/99		12.67	18.53	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	12/13/99		12.73	18.47	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	03/08/00		10.90	20.30	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	06/12/00		12.61	18.59	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
08/30/00	12.35	18.85	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen		
MW-8	03/12/98	33.80	11.81	21.99	1.4	<0.5	<0.5	<0.5	72	<5.0	No sheen
	05/28/98		12.14	21.66	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	08/31/98		13.16	20.64	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	11/19/98		14.56	19.24	510	24	1,200	2,800	14,000	<5.0	No sheen
	03/15/99		12.40	21.40	160	16	910	2,100	14,000	<50	No sheen
	06/07/99		14.06	19.74	330	14	470	880	7,800	<50	No sheen
	09/07/99		14.01	19.79	150	2.6	260	370	3,200	<5.0	No sheen
	12/13/99		14.91	18.89	35	<5.0	280	730	6,700	<50	No sheen
	03/08/00		11.85	21.95	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	06/12/00		13.59	20.21	4.0	<0.5	4.9	2.1	140	<5.0	No sheen
08/30/00	14.35	19.45	53	1.6	180	290	4,100	5.1	No sheen		
MW-9	03/12/98	32.56	10.93	21.63	320	23	180	720	3,700	190	No sheen
	05/28/98		11.31	21.25	110	6.4	87	300	2,200	220	No sheen
	08/31/98		12.16	20.40	240	23	690	1,900	11,000	<50	No sheen
	11/19/98		11.04	21.52	7.7	<0.5	10	22	280	67	No sheen
	03/15/99		11.81	20.75	<0.5	<0.5	<0.5	1.2	<50	<5.0	No sheen
	06/07/99		12.21	20.35	9.3	0.86	9.7	12	340	<5.0	No sheen
	09/07/99		10.10	22.46	0.76	<0.5	1.9	0.8	72	9.9	No sheen
	12/13/99		13.64	18.92	<0.5	<0.5	<0.5	<0.5	60	<5.0	No sheen
	03/08/00		10.88	21.68	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	06/12/00		12.50	20.06	0.9	<0.5	2.7	1.3	640	10	No sheen
08/30/00	13.11	19.45	<0.5	<0.5	0.67	<0.5	150	150	No sheen		

TPH = Total petroleum hydrocarbons.

MTBE = Methyl tertiary butyl ether.

µg/L = Micrograms per liter.