

LETTER OF TRANSMITTAL

Headquarters: Rancho Cordova, CA 916.638.3696 DATE JOB NO. Alameda, CA 415.521.5200 ATTENTION Burbank, CA 818.841.0606 RE: Irvine, CA 714.756.2667 TO: WE ARE SENDING YOU Attached Under seperate cover via______the following items: ☐ Reports ☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications ☐ Copy of letter ☐ Change order DESCRIPTION COPIES DATE THESE ARE TRANSMITTED as checked below: ☐ Resubmit — copies for approval ☐ Approved as submitted ☐ For approval ☐ For your use ☐ Approved as noted ☐ Submit — copies for distribution As requested ☐ Returned for corrections ☐ Return — corrected prints ☐ For review and comment ☐ PRINTS RETURNED AFTER LOAN TO US _19 . ☐ FOR BIDS DUE_ REMARKS COPY TO: _____

JUNE 1993 QUARTERLY GROUND WATER
MONITORING AND INTERIM
REMEDIATION REPORT FOR THE
FORMER ALAMEDA
SERVICE STATION A-528
7608 AMADOR VALLEY BOULEVARD
DUBLIN, CALIFORNIA

September 13, 1993

Prepared For:

Target Stores
33 South Sixth Street
Minneapolis, Minnesota 55440-1342

Prepared By:

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Project No: 04.0122617.000

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INTRODUCTION

This report presents the June 1993 quarterly ground water monitoring results at the former Alameda Service Station A-578, located at 7608 Amador Valley Boulevard in Dublin, California. This report was prepared in accordance with McLaren/Hart's sampling plan entitled "Proposal to Conduct Quarterly Ground Water Sampling and Interim Remediation at the Target Store T-328 Dublin, California" dated September 10, 1992. The sampling plan followed recommendations presented in the "June 1992 Quarterly Monitoring and Interim Remediation Report" for the site. Recommendations included a schedule of six episodes of interim remediation and four sampling events between September 1992 and June 1993. This work was verbally approved by Ms. Eva Chu of the Alameda County Health Care Services Agency, Department of Environmental Health, Hazardous Materials division.

Based on McLaren/Hart's December 14, 1992 written recommendations for revising the quarterly monitoring program and Ms. Eva Chu's written approval of December 18, 1992, monitoring wells MW-1 and MW-3 were not sampled. Water elevations were collected in all wells.

OBJECTIVES AND SCOPE OF WORK

A site location map is presented as Figure 1 and a site map showing monitoring well locations is included as Figure 2. Quarterly monitoring of site wells is being conducted to monitor the lateral extent of petroleum hydrocarbons in the shallow ground water beneath the site, while ground water removal from MW-6 serves as interim remediation of impacted ground water in the area of the former underground fuel tanks.

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The work associated with the June quarterly monitoring event included: sampling monitoring wells MW-2, MW-4, MW-5, and MW-6 for the presence of gasoline constituents; collecting water elevations from six monitoring wells (MW-1 through MW-6); and extracting 400 gallons of impacted ground water from monitoring well MW-6.

Ground Water Elevations

Ground water surface elevations were measured prior to sampling and pumping activities on June 28, 1993 (Table 1). This data was used to construct the June 1993 ground water contour map (Figure 2). The inferred ground water flow direction is generally toward the east and is apparently influenced by the presence of more permeable materials in the excavation area causing a small ground water mound to form. This flow direction is generally consistent with historic ground water flow directions. Based on the observed contour pattern, MW-2, MW-4 and MW-5 appear to be downgradient of the former excavation area.

The static depth to ground water ranges from 3.79 to 5.52 feet below ground surface or 335.60 to 336.98 feet above mean sea level. The average hydraulic gradient is approximately 0.012 feet/foot. The June water level measurements indicate that ground water levels have decreased in all of the six wells since March 1993, ranging from 0.09 to 0.22 feet, with an average decrease of 0.16 feet. Historic ground water elevation data are presented in Table 2.

Interim Remediation

Ten interim remediation episodes have occurred at MW-6, seven in conjunction with quarterly sampling. The first remediation event occurred on October 17 and 18, 1991, shortly after MW-6 was constructed. The next four episodes took place during quarterly sampling on December 30 and 31, 1991, March 26 and 27, 1992, June 23 and 24, 1992, and September 24 and 25, 1992. Three interim remediation episodes took place between September and December 1992. On both October 29, 1992 and November 30, 1992, 200 gallons of ground water were extracted from MW-6 as part of a monthly interim remediation schedule. The frequency of interim remediation returned to a quarterly schedule in December 1992 when four hundred gallons of ground water were extracted. The most recent interim remediation occurred during June 1993 quarterly sampling when 400 gallons were removed from the well.

Depth to ground water was measured at the six wells during each day of the ten interim remediation episodes, once before pumping started then again just before pumping stopped for the day. As shown on Table 3, the extraction of ground water from MW-6 typically reduces the water level in each of the six wells. The exception to this was during the excessive rainfall in October and December 1992 when water levels rose during interim remediation pumping.

The June 1993 water level measurements reveal that the greatest response during the first day of pumping was at MW-4 and MW-5 (decreases of 0.25 and 0.18 feet, respectively). Measurements collected after the second day of pumping showed that MW-4 (0.24 feet) and MW-3 (0.12 feet) registered the most response.

Monitoring Well Sampling Protocol

Ground water samples were collected at MW-2 and MW-5 on June 28, and at MW-4 and MW-6 on June 29, 1993. Prior to sampling MW-2, MW-4 and MW-5, four casing volumes were purged from each well using a centrifugal pump. During purging, the temperature, pH, electric conductivity, and turbidity were measured after each casing volume was removed. After all parameters had stabilized, with the turbidity below 5 NTU's, sampling was performed using a disposable bailer. At MW-6, in conjunction with the interim remediation, 61 casing volumes were removed prior to sample collection and parameters were collected during the last casing volume. Sampling event data sheets are enclosed as Attachment I.

Ground water samples were stored in a container filled with ice and delivered to MBT Environmental Laboratories, state-certified laboratory located in Rancho Cordova, California. A chain-of-custody record was completed during sampling and accompanied each sample shipment to the laboratory. The samples were submitted for analysis by the California Department of Health Services (DHS) LUFT Manual Method for total petroleum hydrocarbons as gasoline (TPH/G) and for benzene, toluene, ethyl benzene, and xylenes (BTEX) analyses by EPA Method 8020. Trip blanks were included in the shipments to the laboratory to be analyzed for TPH/G and BTEX.

Monitoring Well Sampling Results

Table 4 and Figure 3 present the analytical results of the ground water samples collected during the June 1993 sampling event. For the second consecutive time, benzene and TPH/G concentrations were not detected in a water sample from MW-6, constructed within the excavation at the former fuel tanks. However, ethyl benzene (0.72 ppb) and total

not used for drinking water or other beneficial uses, and the MCL concentrations are presented only for purposes of comparison.

CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are based on data collected to date:

- No free-floating petroleum product was observed in any of the wells.
- The general analytical results from water samples collected at MW-6 continue to show a decrease in concentration levels with each of the last five sampling events. For the second consecutive sampling event neither benzene nor TPH/G were detected at well MW-6. The consistent decrease in concentrations of petroleum constituents imply that the interim remediation at MW-6 appears to be cleaning up ground water in the vicinity of MW-6.
- Interim remediation also appears effective in reducing chemical concentrations in ground water at MW-4.
- The level of benzene (17 ppb) reported in well MW-2 during the June 1993 sampling was higher than recent sampling results (March 1993 was 3.2 ppb) but lower than December 1992 levels (35 ppb).
- As shown on Figure 2, the apparent ground water flow direction at the site is generally to the east, consistent with historic flow directions.

- Ground water elevations in all six wells decreased an average of 0.16 feet since March 1993.
- Based on historical analytical results from downgradient wells MW-2 and MW-5, chemicals of concern do not appear to be migrating towards MW-5.
 However, low levels of petroleum constituents are present in ground water at MW-2.
- The interim remediation at MW-6 has removed a total of approximately 3,300 gallons of ground water and appears to be capable of lowering water levels at other wells on-site.

Future work currently planned at the site includes:

- As the June 1993 sampling event represented the completion of the current quarterly sampling program, a new ground water sampling plan and interim remediation schedule will be developed for the site and submitted for agency approval prior to September 1993 sampling.
- The proposed sampling program will continue the frequency of monitoring well sampling and current chemical analyses. Ground water will be extracted from well MW-2 as part of quarterly interim remediation. Due to the improved water _____ at MW-6 ground water will no longer be extracted from this well.

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FIGURE 1 SITE LOCATION MAP TARGET STORE T-328 DUBLIN, CA.



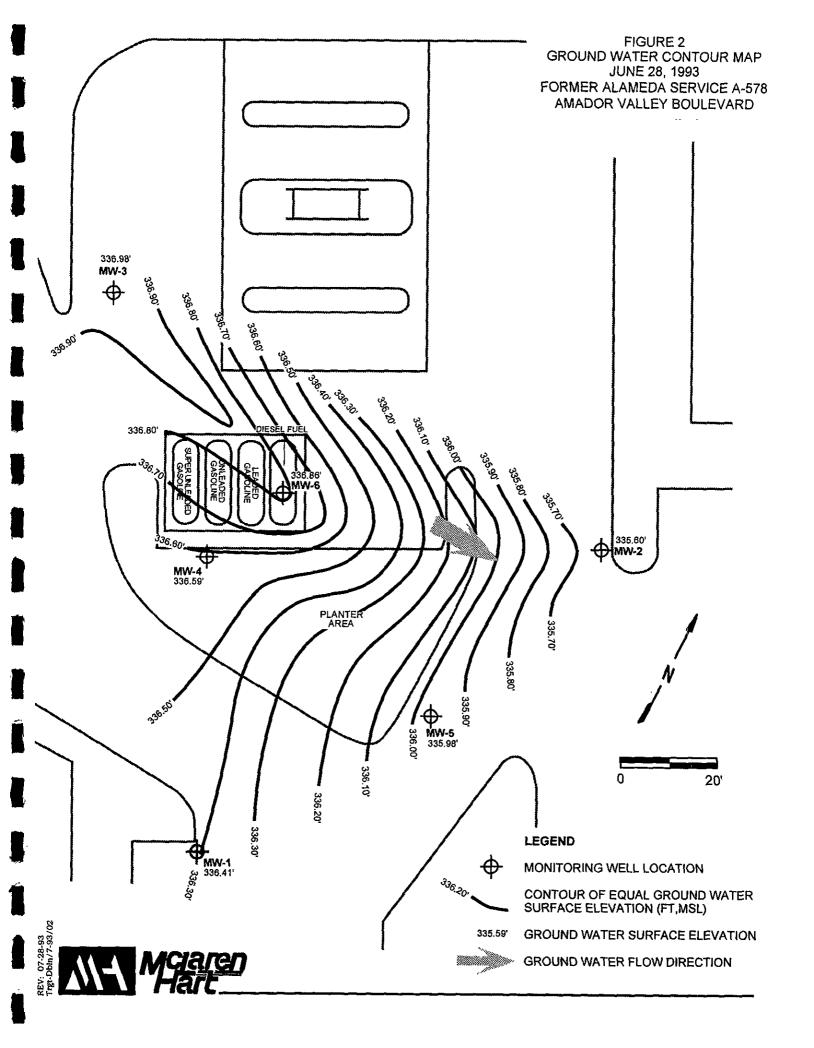


FIGURE 3 GROUNDWATER MONITORING WELL CHEMICAL CONCENTRATIONS JUNE, 1993 **PLANTER AREA** FORMER ALAMEDA SERVICE STATION A-578 DUBLIN, CA COPELAND'S SPORT 20' SCALE MW-3 MW-6 ppb TPH/G ND ND Benzene Toluene ND FORMER TANK EXCAVATION Ethylbenzene 0.72 **Xylenes** 1,48 MW-2 ppb TPH/G ND Benzene 17.0 LEADED GASOLINE Toluene ND Ethylbenzene 0.93 **Xylenes** 0.41 MW-2 + ₩w4 MW-4 ppb TPH/G ND Benzene 2.1 MW-5 Toluene ND ppb **PLANTER** AREA TPH/G Ethylbenzene ND ND TARGET PARKING LOT Benzene 0.31 ND **Xylenes** Toluene ND Ethylbenzene ND **Xylenes** ND **∜**-MW-5 **LEGEND** φ MONITORING WELL LOCATION NON-DETECT **→** MW-1 ND PARTS PER BILLION ppb **TOTAL PETROLEUM** TPH/G HYDROCARBONS AS GASOLINE

TABLE 2
SUMMARY OF GROUND WATER ELEVATION DATA
FORMER ALAMEDA SERVICE STATION A-578
DUBLIN, CALIFORNIA

WELL LD.	TOP OF CASING ELEVATION (MSL)*	DATE MEASURED	DEPTH TO WATER (ft)	WATER ELEVATIONS (MSL)	CHANGE SINCE LAST READING (ft)
MW-1	340.20	2/28/91	5.00	335.20	
	2.13.24	6/14/91	5.53	334.67	-0.59
	- 1.0	9/26/91	5.97	334.23	-0,38
	35.30-320.30 *	12/30/91	5.50	334.70	0.47
2	535 30-310.30	3/26/92	4.65	335.55	0.85
•		6/23/92	4.92	335.28	-0.27
		9/24/92	5,10	335.10	-0.18
		12/29/92	4.89	335.31	0.21
		3/24/93	3.57	336.63 €	1.32
		6/28/93	3.79	336.41 0	-0.22
MW-2	340.27	2/28/91	5.46	334.81	
V1 VV -Z	340.27	6/14/91	5.90	334.37	-0,44
		9/26/91	6.54	333.73	-0.64
			5.83	334.44	0.71
		12/30/91	5.35	334.92	0.48
11	12 ca . 2.10 Ea	3/27/92			
55	55.52·51 ⁰ .52	6/23/92	5.69 5.70	334.58	-0.34
		9/24/92	5.70	334.57	-0.01
		12/29/92	S.52	334.75	0.18
		3/24/93	4.48	335.79	1.04
		6/28/93	4.67	335.60	-0.19
/W-3	341.00	2/28/91	5.61	335.39	
		6/14/91	5.40	335.60	0.21
		9/26/91	6.29	334.71	-0.89
		12/30/91	5.75	335.25	0.54
1	36.12-321.67	3/26/92	4.58	336.42	1.17
っ ち	76.61.201.01	6/23/92	5.27	335.73	-0.69
		9/24/92	5.47	335.53	-0.20
		12/29/92	5.08	335.92	0.39
		3/24/93	3.83	337.17 336.98	1.25
		6/28/93	4.02	336.98	-0.19
MW-4	342.11	2/28/91	7.01	335.10	
	2.2.2.2	6/14/91	7.01	335.10	0.00
		9/26/91	7.81	334.30	~0.80
		12/30/91	7.17	334.94	0.64
	0 . 1	3/27/92	6.44	335.67	0.73
23	7.31-322.31		6.70	335.41	-0.26
,		6/23/92	6.84	335.27	-0.20 -0.14
		9/24/92		335.52	0.25
		12/29/92	6.59		
		3/24/93 6/28/93	5.38 5.52	336.73 336.59	1.21 -0.14
en e	240.00		5.81	334.28	
MW-5	340.09	6/14/91			0.11
		9/26/91	5.92	334.17	-0.11
		12/30/91	5.52	334.57	0.40
	A	3/26/92	4.80	335.29	0.72
24	5.52.320.52	6/23/92	5.23	334.86	-0.43
, ,	70.36	9/24/92	5.07	335.02	0.16
		12/29/92	5.04	335.05	0.03
		3/24/93 6/28/93	3.99 4.11	336.10 ₆ 335.98	1.05 -0.12
					7,12
	340.81	9/26/91	6.45	334.36	
∕W-6		12/30/91	5.71	335.10	0.74
AW-6			5.02	335.78	0.68
∕IW-6		3/27/92	5,03		
		3/27/92 6/23/92		335.43	-0.35
	0.63-326.63	6/23/92	5.38		
	o. 63-326.63	6/23/92 9/24/92	5.38 5.57	335.43 335.24	-0.35 -0.19
યw-લ ઉજે	o. 63-326.63	6/23/92	5.38	335.43	-0.35

^{*} MSL = Mean Sea Level

screen interval (MSL)

0: Done screeningrand

TABLE 3 CHANGE IN GROUND WATER ELEVATION AT MONITORING WELLS **DURING INTERIM REMEDIATION AT MW-6** FORMER ALAMEDA SERVICE STATION A-578
DUBLIN, CALIFORNIA
(continued)

		M	W-1	M	W-2	M	W-3	M	W-4	M	W-5	M	W-6
DATE	TIME	Depth	Change	Depth	Change								
10-17-91	1000	6.19		6.74		6.40		7.96		6.28		6.65	
	1600	6.24	-0.05	6.80	-0.06	6.59	-0.19	8.10	-0.14	6.45	-0 .17	11.26	-4.61
10-18-91	0900	6.24	-0.05	6.82	-0.08	6.55	-0.15	8.04	-0.08	6.40	-0.12	6.72	-0.07
	1600	6.28	-0.09	6.84	-0.10	6.64	-0.24	8.13	-0.17	6.48	-0.20	12.80	-6.15
12-30-91	0800	5.50		5.83		5.75		7.17		5.52		5.72	
12-31-91	1500	5.69	-0.19	6.00	-0.17	5.83	-0.08	7.29	-0.12	5.68	-0.16	7.36	-1.65
3/26/92	1000	4.65		5.35		4.58		6.44		4.80		5.03	
	1500	4.82	-0.17	5.43	-0.08	5.01	-0.43	6.70	-0.26	5.15	-0.35	12.72	-7.69
3/27/92	0845	4.74	-0.09	5.41	-0.06	4.95	-0.37	6.52	-0.08	5.01	-0.21	5.10	-0.07
	1400	4.80	-0.15	5.48	-0.13	5.04	-0.46	6.72	-0.28	6.11	-1.31	13.12	-8.07
6/23/92	0930	4.92		5.69		5.27		6.70		5.23		5.38	
	1830	5.04	-0.12	5.82	-0.13	5.38	-0.11	6.95	-0.25	5.39	~0.16	13.70	-8.32
6/24/92	0900	5.04	-0.12	5.76	-0.07	5.33	-0.06	6.84	-0.14	5.34	-0.11	5.48	-0.10
	1130	5.09	-0.17	5.79	-0.10	5.38	-0.11	6.95	-0.25	5.39	-0.16	9.77	-4.39
9/24/92	0845	5.10		5.70		5.47	* = ±	6.84		5.07		5.57	
~, ~ ., , , _	1530	5.33	-0.23	5.91	-0.21	5.68	-0.21	7.16	-0.32	5.50	-0.43	13.50	-7. 9 3

TABLE 3

CHANGE IN GROUND WATER ELEVATION AT MONITORING WELLS
DURING INTERIM REMEDIATION AT MW-6

FORMER ALAMEDA SERVICE STATION A-578
DUBLIN, CALIFORNIA
(continued)

		M	W-1	M	W-2	M	W-3	M	W-4	M	W-5	M	W-6
DATE	TIME	Depth	Change										
9/25/92	0705	5.35	-0.25	5.98	-0.28	5.69	-0.22	7.14	-0.30	5.53	-0.46	5.79	-0.22
	1005	5.42	-0.32	6.07	-0.37	5.76	-0.29	7.64	-0.80	5.66	-0.59	13.50	-7.93
10/29/92	1030	5.95		6.77		6.46		8.00		6.34		6.65	
	1556	6.03	-0.08	6.64	0.13	6.47	-0.01	7.94	-0.06	6.21	0.13	13.16	-6.51
11/20/92	0820	6.06		6.85		6.47		8.04		6.42		6.73	
	1325	6.22	-0.16	6.88	-0.03	6.67	-0.20	8.12	-0.08	6.48	-0.06	13.85	-7.12
12/29/92	1150	4.89		5.52		5.08		6.59		5.04		5.22	
	1605	4.89	0.00	5.57	-0.05	5.08	0.00	6.71	-0.12	5.09	-0.05	12.25	-7.03
12/30/92	0935	4.66	0.23	5.26	0.26	4.82	0.26	6.33	0.26	4.83	0.21	4.81	0.41
	1420	4.72	0.17	5.31	0.21	4.92	0.16	6.54	0.05	4.93	0.11	13.90	-8.68
3/24/93	0912	3.57		4.48		3.83		5.38		3.99		3.86	
	1340	3.64	-0.07	4.63	-0.15	3.97	-0.14	5.63	-0.25	4.13	-0.14	9.98	-6.12
3/25/93	0918	3.53	0.04	4.46	0.02	3.77	0.06	5.35	0.03	3.97	0.02	3.79	0.07
	1130	3.62	-0.05	4.53	-0.05	3.93	-0.10	5.60	-0.22	4.10	-0.11	10.36	-6.50
		1		1		ł		1		1		1	:

TABLE 3

CHANGE IN GROUND WATER ELEVATION AT MONITORING WELLS **DURING INTERIM REMEDIATION AT MW-6** FORMER ALAMEDA SERVICE STATION A-578 **DUBLIN, CALIFORNIA** (continued)

		M	W-1	M	W-2	M	W-3	М	W-4	М	W-5	М	W-6
DATE	TIME	Depth	Change	Depth	Change	Depth	Change	Depth	Change	Depth	Change	Depth	Change
06-28-93	1120	3.79		4.67		4.02	~-~	5.52		4.11		3.95	
	1541	3.90	-0.11	4.82	-0.15	4.18	-0.16	5.77	-0.25	4.29	-0.18	8.05	-4.10
06-29-93	1032 1347	3.77 3.85	0.02 -0.06	4.59 4.70	0.08 -0.03	3.99 4.14	0.03 -0.12	5.50 5.76	0.02 -0.24	4.04	0.07 -0.08	3.87 11.26	0.08 -7.31

*NOTE:

Changes in water elevation are measured from the initial depth to ground water on 10/17/91, 12/30/91, 3/26/92, 6/23/92, 9/24/92, 10/29/92, 11/20/92, 12/29/92, 3/24/93 and 6/28/93. Ground water was pumped from MW-6 at approximately 9.6 gpm during June 1993.

TABLE 4
6/93 ANALYTICAL RESULTS OF GROUND WATER SAMPLES (ppb)
FORMER ALAMEDA SERVICE STATION, A-578
DUBLIN, CALIFORNIA

WELL <u>DESIGNATION</u>	<u>DATE</u>	TPH/G	<u>TPH/D</u>	BENZENE	TOLUENE	ETHYL <u>BENZENE</u>	TOTAL XYLENES
MW-1	2/91 6/91 9/91 12/91 3/92 6/92 9/92	<50 <50 <50 <50 <50 <50 <50	<500	<0.5 <0.5 <0.5 <0.5 <0.3 <0.3	<0.5 <0.5 <0.5 <0.5 <0.3 <0.3	<0.5 <0.5 <0.5 <0.5 <0.3 <0.3	<0.5 <0.5 <0.5 <0.5 <0.3 <0.3
MW-2	2/91 6/91 9/91 12/91 3/92 6/92 9/92 12/92 3/93 6/93	50 51 <50 <50 <50 <50 150 <50	<500 	2.0 6.6 5.0 6.1 3.6 9.5 1.3 35 ^b 3.2 17.0	0.8 <0.5 <0.5 <0.5 <0.3 <0.3 0.81 <0.3 <0.3	1.1 1.1 0.64 <0.5 <0.5 <0.3 <0.3 4.0 <0.3 0.93	5.8 1.33 <0.5 <0.5 <0.5 <0.3 <0.3 3.2 0.86 0.41
MW-3	2/91 6/91 9/91 12/91 3/92 6/92 9/92	<50 <50 <50 <50 <50 <50 <50	<500 	<0.5 <0.5 <0.5 <0.5 <0.3 <0.3	<0.5 <0.5 <0.5 <0.5 <0.3 <0.3	<0.5 <0.5 <0.5 <0.5 <0.3 <0.3	<0.5 <0.5 <0.5 <0.5 <0.3 <0.3
MW-4	2/91 6/91 9/91 12/91 3/92 6/92 9/92 12/92 3/93 6/93	6,000 6,100 <50 180 560 <50 <50 <50 <50	<500	680 680 100 6.4 120 <0.3 <0.3 0.92 4.3 2.1	<20 <25 <0.5 <1.0 6.0 <0.3 <0.3 <0.3 <0.3	160 150 45 16 5.0 <0.3 <0.3 <0.3 0.98 <0.3	250 <25 8.1 25.8 <0.5 <0.3 <0.3 <0.3

TABLE 4

6/93 ANALYTICAL RESULTS OF GROUND WATER SAMPLES (ppb) FORMER ALAMEDA SERVICE STATION, A-578 DUBLIN, CALIFORNIA (Continued)

WELL DESIGNATION	<u>DATE</u>	TPH/G	TPH/D	<u>BENZENE</u>	TOLUENE	ETHYL <u>BENZENE</u>	TOTAL XYLENES
MW-5	6/91 9/91	<50 -50		<0.5	<0.5	<0.5	<0.5
	12/91	<50 <50		<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
	3/92 6/92	<50 <50		<0.3 <0.3	<0.3 <0.3	<0.3 <0.3	<0.3 <0.3
	9/92	<50		<0.3	<0.3	<0.3	<0.3
	12/92 3/93	<50 <50		<0.3 <0.3	<0.3 <0.3	<0.3 <0.3	<0.3 <0.3
	6/93	<50		<0.3	<0.3	<0.3	<0.3
MW-6	9/91 10/91 12/91 3/92 6/92 9/92 12/92 3/93 6/93	2,300 1,900 2,500 2,600 1,500 <480 ^b 250 <50 <50	<500 <500 <500	760 230 360 400 220 28 16 ^b <0.3 <0.3	11 <5 <50° <50° <3° <3° <0.3 <0.3 <0.3	360 140 260 280 190 120 33 ^b 0.37 0.72	236 12.1 <50° <50° <3° 16.4 0.88 1.48

The analysis was run at a 1:100 dilution to bring target analytes within linear working range of the GC.
 The analysis was run at a 1:10 dilutions to bring target analytes within linear working range of the GC.
 Not analyzed.

b

ATTACHMENT I SAMPLING EVENT DATA SHEETS

	MoLaren		<u></u>	YDRODATA		DATE: 6/28/9
PR	DJECT: TARGET	DuBle	∠ EVENT:	Guar tinly	SA	MPLER: D. WATTS
NO	WELL OR LOCATION	DATE MOI DAIYR	TIME	MEASUREMENT	CODE	COMMENTS
1	MW-1	6 28 93	11/20	3,79	SWL	VAULT BOX FLOORE
2	17N-3	11111	1122	4.02		
3	17W-5		11 24	4.11		
4	47W-2		11 25	4.67		
5	mw-4		1/ 26	5,52		
6	mm-6		11 27	3.95		
7	MW-1	!	15 41	3.90		
8	mw-3		15 43	4.18		
9	111W-5		15:45	4.29		
10	M2W-2	i	15 47	4.82		
11	mw-4	i	15 49	5.77		
12	MW-6	4 4 4	15/50	8.05	7	(Puthing)
13		j				
14						
15						
16		1				
17						
18						
19						
20						
CODE	S: •SWI - Stat	Ilc Water Le			<u> </u>	ntat (Haura)

(IC Water Level (Feet)

*IWL - Instant Water Level; Non-Static (Feet)

*OIL - OII Level (Feet)

*OWI - Oll/Water Interface (Feet)

*MTD - Measured Total Depth (Feet)

FLO - Flow Rate (Gallons/Minute)

CUM - Cumulative (Gallons)

HRS - Total (Hours)

PSI - Pressure (psi)2

pH - 1 to 14

Ec - Conductivity (µm HOS)

TMP - Temperature (°C)

TRB - Turbidity (NTU)

_ (Additional Code)

Note in comments column if well is not: properly tabeled, locked, or able to be locked. Describe corrective action. Note flooding of vault box, odor, socess problems.

[&]quot;All levels are depth from inner essing - describe any other reference points in comments column; when in doubt, describe reference point.

^{*}Negative pressure (Vacuum) psi = apprex -(1/2 x mmHg)

DATE: 6/29/93

PR	OJECT: TARGET	Ditten	_EVENT:	Quarterly	SA	MPLER: D. WATTS
МО	WELL OR LOCATION	DATE MOI DAIYA	TIME	MEASUREMENT	CODE	COMMENTS
1	1774-1	6 29 93	10 32	3.77	SWL	
2	MW-3	1111	10 33	3,99	1	
3	MW-5		10 34	4.04		
4	127W-2		10/36	4.59		
5	mW-4		10 37	5,50		
6	mw-6		10 38	3,87		
7	mW-1		1347	3,85		
8	MW-3		1349	4.14		
9	M14-5		13:51	4.19		
10	MW-2		1353	4.70		
11	MW-4	1 1 1 1	13 55	5.76		
12	MW-6	4 4 4	13/56	11.26.	4	(Burking)
13		!				
14						
15						
16						
17						
18						
19						
20 CODE						·

CODES:

'SWL - Static Water Level (Feet)

*!WL - instant Water Level; Non-Static (Feet)

'OIL - Oil Level (Feet)

*OWI - Oil/Water Interface (Feet)

*MTD - Measured Total Depth (Feet)

FLO - Flow Rate (Gallons/Minute)

CUM - Cumulative (Gallons)

HRS - Total (Hours)

PSI - Pressure (psi)2

pH - 1 to 14

Ec - Conductivity (µm HOS)

TMP - Temperature (°C)

TRB - Turbidity (NTU)

___ - ____ (Additional Code)

Note in comments column if well is not: properly labeled, locked, or able to be locked. Describe corrective action. Note flooding of vault box, odor, access problems.

^{*}All levels are depth from inner casing - describe any other reference points in comments column; when in doubt, describe reference point,

^{*}Negative pressure (Vacuum) psi = approx -(1/2 x mmHg)

SAMPLING EVENT DATA SHEET

(fill our completely)

WELL OR LOCATION 17W- 2 PROJECT PARKET PLEIN EVENT JUNE TERL SAMPLER V WATIS DATE 6/28/ Well / Hydrologic statistics Time Pump rate Action (low viek West type MW Start pump / Begin 11430 1.25 SPm (MW. EW. etc.) 6Pm 15.68 1143812 1443 1448 1453 equals 165 galdt casing Stop 14541 Cacacar 1500 Sampled 11.40 (Final IWL) Purge calculation .65 gaint. 15.47h. = 10 gais \$3 = 40 gais. SWL-SWL to BOP or one (if in screen) ontae Adinwepacker to BOP volume 3 casings 2.0 BOP Head purge calculation (Airlift only) gavit:: T.D. packer to SWE... Equipment Used / Sampling Method / Description of Event: Actual gallons purged CENTRIFULAL Pum & Disposable Anilia. USLO MENSURIO T.D. FOR Punte Calculation. Actual volumes purged Well yield (see below) 20234 COC # Sample I.D. Lab Anaivsis 236756-59 Additional comments: 50% RECEVERY: 12.40 80% RECEVERY: 7.76 SAMPLE TURBIO. L.: 2.91 TEMP C/F Gallons purged * EC PH TURBIDITY (circle one) (US / CITI) 1. 10 1320 クリロ 20 1380 3 40 70.5 1390 70.4 1350 Take measurement at MY - WL drop - sole to purge 3 HY- Minimal VLY - Minimat recharge -LY - Abie to purge 3 W.L. drop unable to burde RECEIVED WATER volumes during one sitting volumes by returning by reducing pump rate or 3 volumes. casing volume purged, later or next day. cycling pump.

SAMPLING EVENT DATA SHEET

(fill out computery)

McLaren				WEL	LORLO	CATION L	2W-4
PROJECT TIFE	ET POSTWE	VENT GUART	enty SAL	PLER D	Wall	DATE 6	/29/93
Well/I	lydrologic statis	tics	Ac	tten.	Ппе	Pump rate	(low viek
	Wedt	ype MN	Start pun	np / Begin	1127	12 6Pm	1
		EW. etc.)			1132		10.02
					1137		11.60
<u> </u>	┥┊┝═╣	μ''			1142	12 58m	1/2.42
	d diame				1146	12 6Pm	1/3.00
(if above screen)	equali	.65 gaint case	g			 	
			Stop		1147	 	1/3.00
intake 14 tt		1	Sampled		1158		7.65
batter deoth (circle one)	5	-	(Final IWL	.)	1210		5.92
	1988	TOP	1 -		ruge ca	iculation	
sm 5.50	12 1		,65 gair	tt. •14.50 tt.	= 9.5	gaus x,22=	38 gars.
(If in screen)		f.		SWL to BOP		חטפ	is voinus-
,	20			packer to BOF	yotun		casings
		BOP		Head pur	de calcu	lation (Airlift	onty)
T.D. 19.80	20	T.D. (as built)	ga	Vita:	<u> </u>	<u>gais:</u>	
				packer to 51	NE	, .	
Equipment Used / Sar	mpting Method / D	escription of Eve	nt:	Actual gall	ons pura	ed 3	8
CENTRIFULAL	Find W.	VisposmBLE	Bailton.	1			7
USED DESIGN ?	T.D. FOR 1	WALE CAL	culation.	Actual void	ımes pur	ged	
			•	Well yield	⊕	m	<u>y</u>
				(see Delow	()		
				COC #		00234	
				Sample	.D.	Analysis	Lab
				236760	-63 7	Off (knf1) + Stex (luf1)	MBT
Additional comments:						BTEX (Luft)	
	10.00					·····	
50% RECOVERY	1:16:15						
71 /0 RECOVER	8.40 <	IMPLE TURB.	21.19				
Gallons purged *	TEMP °C (°F)	EC (us / cm)	PH	TURBIDIT	Y		
1. 10	72.5	1090	7.07	4.53	-		
2 20	74.1	1040	7.05	4.08			
3 30	74.3	1020	7.17	3.91			
4 38	74.1	1010	7.17	4.09			
5.		7 7 7 9		1.07			
Take measurement at approximately each casing volume purged.	⊕ <u>HY-</u> Minimas W.1_ drop	by reducing pump	ng one silling outno rais or),		purge 3 by return lext day.	ing una	nzi recharge - pie to purge iumas.
··	15	57×	.15				

SAMPLING EVENT DATA SHEET

(fill our completely)

WELL OR LOCATION MW-5 PROJECT THREFT DUBLIN EVENT GUAR TORLY WATTS DATE 6/28/73 SAMPLER _ Well / Hydrologic statistics Action Time Pump rate (low viek Weil type /17W (MW. EW. etc.) Start pump / Begin 1248 4PM1 6,33 68414,25 6Ph 16.23 (if above screen) Stop 6.26 Sampled 1/3401 (Final IWL) Purge calculation , 65 gaint . 15. 88 H. = 10.5 gais 3= SWL-SWL to BOP or one purge volumeof in screens packet to 80P volume 3 casmos Head Durge calculation (Airlift only) gai/it: ft: ---gais: packer to SWE... Equipment Used / Sampling Method / Description of Event:

CENTRIFULAL JUMP W PISTABLE DAILETT.

USEN DESIGN T.D. FOR BURKE CALCULATION. Actual gallons purged Actual volumes purged Well yield (see below) 10234 COC # Sample I.D. Lab Anatysis 207198 TPH-6/LUFTY Additional comments: BIEXILUP 237199 237200 50% RECOVERY: 12.05 236751 231752-55 41% RECEVERY: 7,28 SAMPLE THRESPITY: D.81 TEMP "C/"F Gallions purged * EC TURBIDITY (circle ane) (us / cm) (NTU) 121 1. 10 16 20 31 4.64 7.38 21 6.03 31 HY- Minimus Take measurement at MY - WL drop - sole to purge 3 LY - Able to purge 3 VLY - Minimat recharge -W.L. drop prime and british semilion unable to purce ADDITIONAL SECTION volumes by returning ph teanered british term of casing volume ourged. 3 volumes. later or next day. cycling pump.

SAMPLING EVENT DATA SHEET (fill out completely) WELL OR LOCATION MW-PROJECT TARGET DUBLE EVENT QUARTERLY SAMPLER D. WATTS DATE 6/28/ Well / Hydrologic statistics Action Пте Pump rate (low viek Weil type MW (MW, EW, etc.) Start pump / Begin 85 hlm RE-START/6/29/13/1045 98 61m 3.87 equals 165 gaint casing (if above screen) Stop 114021 26 раскег Samoled intake (Final IWL) baller depth Purge calculation , 65 galite. 11.55tt. = 195 gals/x 2 27.4 gals. SWL-SWL to BOP or bride Aginue-(if in screen) pages to SOP volume 3 casinos 14.5 BOP Head purge calculation (Airlift only) 1 gal/ft::" __ gais:.. Cacker to SWE 420 Equipment Used / Sampling Method / Description of Event: Actual dalions burded CENTRIFUGAL PUMP (D) DISPOSABLE BAILER. Actual volumes purged Well yield **(** (see below) 10238 COC # Sample I.D. Lab Analysis TEMP. ELEVATED ON ASSHALT (SHALLOW SUL) MBT Additional comments: SLIGHT PETROLEUM DOOR. 50% RECEVERY: 9,22 81% RECOVERY: 6.06 STAMPLE TURBIDITY: 10.15 Gallons purged • TEMP C (F) (circle one) EC PH TURBIDITY (us / cm) SAMPLE 460 83.8 7 38 10.15. Take measurement at MY - WL drop - apte to purge 3 HY- Minimat LY - Abie to purge 3 VLY - Minimat recharge - -

W.L. drop

IF

SUDPLIMENTAL ORCH

caking volume purped.

. 15

volumes during one sitting

by reducing pump rate or

cycling pump.

egruq of eidenu

3 volumes.

volumes by returning

later or next day.

ATTACHMENT II

ANALYTICAL DATA SHEETS AND CHAIN-OF-CUSTODY

Analytical Method: Modified EPA 8020 (BTEX) and Total Petroleum Hydrocarbons Gasoline by LUFT Preparation Method: EPA 5030

Project Project

Name: Target Dublin Number: 04.0122617.000

Sample Lab Project-

Description: Trip Blank ID Number: 7759-001

Sample Date

Number: 237199 Sampled: 06/28/93

Date Date

Received: <u>07/01/93</u> Analyzed: <u>07/07/93</u>

ANALYTE	CONCENTRATION ug/L (ppb)	REPORTING LIMIT ug/L (ppb)
Benzene	BRL	0.30
Toluene	BRL	0.30
Ethylbenzene	BRL	0.30
1,2-Xylene	BRL	0.30
1,3-Xylene	\mathtt{BRL}	0.30
1,4-Xylene	BŖL	0.30
Total Petroleum Hydrocarbons - Gasoline	BRL	50
Surrogates	Percent <u>Recovery</u>	Acceptance <u>Limits</u>
a,a,a-Trifluorotoluene (PID)	87	80 - 120

88

Comments:

a,a,a-Trifluorotoluene (FID)

Approved By: Nancy McDonald, Quality Control Chemist Date: 7/4/93

The cover letter and attachments are integral parts of this report.

052493btxtphgw

80 - 120



Analytical Method: Modified EPA 8020 (BTEX) and Total Petroleum Hydrocarbons Gasoline by LUFT Preparation Method: EPA 5030

Project Name:	Target Dublin		Project Number:	04.0122617.000
Sample Description:	<u>MW-2</u>		Lab Projec ID Number:	
Sample Number:	236759		Date Sampled:	06/28/93
Date Received:	07/01/93		Date Analyzed:	07/06/93
ANALYTE		CONCENTRATE ug/L (p)		REPORTING LIMIT ug/L (ppb)
Benzene Toluene Ethylbenzene 1,2-Xylene 1,3-Xylene 1,4-Xylene		17 BRL 0.9 BRL BRL		3.0 {b} 0.30 0.30 0.30 0.30 0.30
Total Petrole Gasoline	eum Hydrocarbons -	BRL		50
Surrogates		Percent Recovery		Acceptance Limits
	protoluene (PID) protoluene (FID)	79 {a} 81		80 - 120 80 - 120
	(a) Sample surrogate reco All other quality con (b) The data is reported on 07/07/93 at a 10 i	ntrol is ac from a dif	ceptable. ferent anal	(c) Lytical run

Approved By: Nancy McDonald, Quality Control Chemist Date: 7.79-93

The cover letter and attachments are integral parts of this report.

052493btxtphgw

MBT Environmental Laboratories

within linear range.

{c} Revised 07/29/93.



Analytical Method: Modified EPA 8020 (BTEX) and Total Petroleum Hydrocarbons Gasoline by LUFT Preparation Method: EPA 5030

Project Project

Name: Target Dublin Number: 04.0122617.000

Sample Lab Project-

Description: MW-4 ID Number: _7759-004

Sample Date

Number: 236763 Sampled: 06/29/93

Date Date

Received: 07/01/93 Analyzed: 07/06/93

ANALYTE	CONCENTRATION ug/L (ppb)	REPORTING $\frac{LIMIT}{ug/L}$ (ppb)
Benzene	2.1	0.30
Toluene	BRL	0.30
Ethylbenzene	BRL	0.30
1,2-Xylene	BRL	0.30
1,3-Xylene	BRL	0.30
1,4-Xylene	0.31	0.30
Total Petroleum Hydrocarbons -	BRL	50

Surrogates	Percent <u>Recovery</u>	Acceptance <u>Limits</u>
a,a,a-Trifluorotoluene (PID)	106	80 - 120
a,a,a-Trifluorotoluene (FID)	129 {a}	80 - 120

Comments:

Gasoline

(a) Sample surrogate recovery is beyond acceptance limits. All other quality control is acceptable.

129 {a}

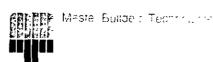
Non-target analytes are present on the chromatograph.

Date: 7/9/93 McDonald, Quality Control Chemist

The cover letter and attachments are integral parts of this report.

052493btxtphgw

80 - 120



Analytical Method: Modified EPA 8020 (BTEX) and Total Petroleum Hydrocarbons Gasoline by LUFT Preparation Method: EPA 5030

Project Project Name: Target Dublin Number: 04.0122617.000 Sample Lab Project-Description: MW-5 ID Number: <u>7759-002</u> Sample Date Number: 236755 Sampled: 06/28/93 Date Date Received: 07/01/93 Analyzed: 07/06/93 REPORTING ANALYTE CONCENTRATION LIMIT ug/L (ppb) ug/L (ppb) Benzene BRL 0.30 Toluene BRL 0.30 Ethylbenzene BRL 0.30 1,2-Xylene BRL 0.30 1,3-Xylene BRL 0.30 1,4-Xylene BRL 0.30 Total Petroleum Hydrocarbons -BRL50 Gasoline Percent Acceptance Surrogates Recovery <u>Limits</u> a,a,a-Trifluorotoluene (PID) 77 (a) 80 - 120

Comments:

(a) Sample surrogate recovery is beyond acceptance limits. All other quality control is acceptable. (b)

79 {a}

{b} Revised 07/29/93.

a,a,a-Trifluorotoluene (FID)

Approved By: UM Date: 7-79-93

Nancy McDonald, Quality Control Chemist

. The cover letter and attachments are integral parts of this report.

052493btxtphgw

80 - 120

MBT Environmental Laboratories



Analytical Method: Modified EPA 8020 (BTEX) and Total Petroleum Hydrocarbons Gasoline by LUFT Preparation Method: EPA 5030

Project Project

Name: Target Dublin Number: 04.0122617.000

Sample Lab Project-

Description: MW-6 ID Number: 7759-005

Sample Date

Number: <u>236767</u> Sampled: <u>06/29/93</u>

Date

Received: <u>07/01/93</u> Analyzed: <u>07/06/93</u>

ANALYTE	CONCENTRATION ug/L (ppb)	REPORTING <u>LIMIT</u> ug/L (ppb)
Benzene	BRL	0.30
Toluene	BRL	0.30
Ethylbenzene	0.72	0.30
1,2-Xylene	BRL	0.30
1,3-Xylene	0.61	0.30
1,4-Xylene	.0.87	0.30
Total Petroleum Hydrocarbons - Gasoline	BRL	50

Surrogates	Percent <u>Recovery</u>	Acceptance <u>Limits</u>
a,a,a-Trifluorotoluene (PID) a,a,a-Trifluorotoluene (FID)	91 95	80 - 120 80 - 120

Comments: Non-target analytes are present on the chromatograph.

Approved By: Mancy McDonald, Quality Control Chemist Date: 7/9/93

The cover letter and attachments are integral parts of this report.

052493btxtphgw



QUALITY CONTROL DEFINITIONS

METHOD BLANK RESULTS: A method blank (MB) is a laboratory generated sample free of any contamination. The method blank assesses the degree to which the laboratory operations and procedures cause false-positive analytical results for your samples.

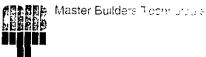
LABORATORY CONTROL SPIKES

The LCS Program:

The laboratory control spike is a well-characterized matrix (organic pure type II water for water samples and contamination-free sand for soil samples) which is spiked with certain target parameters, and analyzed in duplicate at approximately 5% of the sample load, in order to assure the accuracy and precision of the analytical method.

Control limits for accuracy and precision are different for different methods and may vary with the different sample matrices. They are based on laboratory average historical data and EPA limits which are approved by the Quality Assurance Department.

(DC2-CN7759)



QUALITY CONTROL REPORT

METHOD BLANK

Method: Mod. EPA 8020 (BTEX) & TPH/G

Date Analyzed: 07/06/93

ug/L (ppb) Units:

Analyte	Reporting <u>Limit</u>	<u>Concentration</u>
Benzene	0.30	BRL
Toluene	0.30	BRL
Ethylbenzene	0.30	BRL
1,2-Xylene	0.30	BRL
1,3-Xylene	0.30	BRL
1,4-Xylene	0.30	BRL
Total Petroleum Hydrocarbons - Gasoline	50	BRL
Surrogate	% Recovery	Acceptance Limits
a,a,a-Trifluorotoluene (PID)	93	80 - 120
a,a,a-Trifluorotoluene (FID)	91	80 - 120

QUALITY CONTROL REPORT

METHOD BLANK

Method: Mod. EPA 8020 (BTEX) & TPH/G Date Analyzed: 07/07/93

Units: ug/L (ppb)

Analyte	Reporting <u>Limit</u>	Concentration
Benzene	0.30	BRL
Toluene	0.30	BRL
Ethylbenzene	0.30	BRL
1,2-Xylene	0.30	BRL
1,3-Xylene	0.30	BRL
1,4-Xylene	0.30	BRL
Total Petroleum Hydrocarbons - Gasoline	50	BRL
Surrogate	% Recovery	Acceptance Limits
a,a,a-Trifluorotoluene (PID)	96	80 - 120
a,a,a-Trifluorotoluene (FID)	94	80 - 120

Laboratory Control Sample/Laboratory Control Sample Duplicate Method 8020 LP#: 7759

Analyst: TL

Spike Sample ID: LCS/LCSDW - 42

Date Of Analysis: 06/30/93

Spike ID Code: W-1-733

Column: DB Wax

Surrogate ID Code: W-1-740

Instrument #: 6

Matrix: Water Units: ug/L

		(a)	(b)	(c)	(d)	(e)	(f)	(g)		
EPA METHOD	COMPOUNDS	SAMPLE CONC.	SPIKE CONC.	SAMPLE + SPIKE CONC.	SPIKE REC.%	SAMPLE DUP. + SPIKE CONC.	SPIKE DUP. REC. %	RPD%	ACCEPTA LIMIT % REC.	
8020	Chlorobenzene	0	4.00	4.72	118	4.16	104	13	80 - 120	≤20
8020	Benzene	0	4.00	4.32	108	3.86	96	11	80 - 120	≤20
8020	Ethyl Benzene	0	4.00	4.43	111	3.81	95	15	80 - 120	≤20

Spike Recovery = d = ((c-a)/b) x 100 Spike Duplicate Recovery = f = ((e-a)/b) x 100 Relative Percent Difference = g = (|c-e|)/((c+e) x .5) x 100

			(h)	(i)	(i)	(k)	(1)	
EPA METHOD	SURROGATE COMPOUNDS	DET.	SUR. SPIKE CONC.	SAMPLE + SUR. SPIKE CONC.	SUR. REC. %	SAMPLE DUP. + SUR.SPIKE CONC.	SUR. DUP. RECOVERY %	ACCEPTANCE LIMITS % REC.
8020	a,a,a,-Trifluorotoluene	PID	4.00	3.45	86	3.47	87	80 - 120

Surrogate % Recovery = $j = (i/h) \times 100$ Surrogate Dup % Recovery = $1 = (k/h) \times 100$



ABBREVIATIONS USED IN THIS REPORT

BRL	Below Reporting Limit
MB	Method Blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
LCS	Laboratory Control Spike
LCSD	Laboratory Control Spike Duplicate
RPD	Relative Percent Difference
NS	Not Specified
NA	Not Applicable

COMMENTS

Test methods may include minor modifications of published EPA methods (e.g., reporting limits or parameter lists). Reporting limits are adjusted to reflect dilution of the sample when appropriate. Solids and waste are analyzed with no correction made for moisture content.

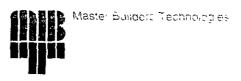
The reporting limits for BTEX meet those specified in the California LUFT Manual.

(DC2-CN7759)



MBT Environmental Laboratories

3083 Gold Canal Drive Rancho Cordova CA 95670 Phone 916/852-6600 Fax 916/852-7292



Date: July 9, 1993

LP #: 7759

Campbell McLeod McLaren/Hart Environmental Engineering 1135 Atlantic Avenue Alameda, CA 94501

Dear Mr. McLeod:

Enclosed are the laboratory results for the five samples submitted by you to the MBT Environmental Laboratories on July 1, 1993, for the project Target Dublin.

The analyses you requested are:

EPA 8020 (BTEX) and TPH/G (5 - Water)

The report consists of the following sections:

- 1. A copy of the Chain-of-Custody
- 2. Quality Control Definitions and Report
- 3. Abbreviations and Comments
- 4. Analytical results

Unless otherwise instructed by you, samples will be disposed of two weeks from the date of this letter.

Thank you for choosing MBT Environmental Laboratories. We are looking forward to serving you in the future. Should you have any questions concerning this analytical report or the analytical methods employed, please do not hesitate to call.

Sincerely,

Shakoora Azimi

Laboratory Director, Principal Scientist



MBT Environmental Laboratories ~ 3083 Gold Canal Drive Rancho Cordova CA 95670 Phone 916/852-6600

CHAIN OF CUSTODY RECORD 00238

SEE SIDE 2 FOR COMPLETE INSTRUCTIONS

Technologies		Fax 916/	/852-729	3 2																	I	
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OR LABORATORY USE ONLY	Sample	an l		ľ		Descript	tion	C	ontainer	(s)		_	-		2 5				1]		11	Acidity Alkalinity
Lab ID	Numb		Date	Time	Loc	alor	Depti	۱ #	Тур		latrix Гуре	Pres. Type	TA	L		1 1		[BTEX Chloride
1 7759-001	23719	8	1/28/9	1219	TRIFE	Jan.V	NA	17	17			17 CL	4				-	+	┦╌┦	- -	-	CLP (see Si COD Color
2 7759 -001	23719		7-7/-	17	1	(SPARE)	1	15	1	- "	70	1	17	K	\bigstar	 	- -		╂╌╂		-	Conductivity Corrosivity
3 7759 -001	2372					1		11			T		1-1-	- 5	X	 			╁			Cyanide Flashpoint
4 7759 -001	23675	51		1	1	4		1	 			\vdash	+	K	X	4-1			╁╌╂	-+-		Fluoride General Mine
5 7759 -002	23675	2-55		1340	mw	-5		4		1		<u> </u>	1	X	X			- -	+			Hex. Chromii Ion Balance Metals (write
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9								T			·	<u>-</u>	1-*		Y			1			+	(see Sid Nitrate
)	<u></u>													1	1		7	1-	† †	\dashv	++	Nitrite Odor Org Lead
pecial Instructions/Comm	ients:									-			•			<u> </u>						Org Mercury Percent Mois
	-]		iner Ty _l iss Tube		C=C	Liter A	;	1	IAI (. I = 24	Analyi hours	ical T	$\frac{\text{um A}}{2} = 4$	round ' 8 hours	Time)	Percent Solid Perchlorate
//				<u> </u>					G=Gla			P=Pc	olyethy oa Via	/lene	3	3 = 1 :	week			weeks		pH Phosphates
PLEASE RE	TURN	Cool	1321	19.	me)			\Box	0-00			_ \=\	02 412	.)	,	3 = O1	ner				— [Phosphorus Sulfate
OR LABORATORY USE C	ONLY Samp	de Condit	ion Upor	1 Receipt:	TEMP, LOOS	O, SAMPLES	D. TKS		SEND	DOCU	MENT	TATION	AND	RES	ULTS	TO (Check	one):				Sullides TCLP: VOA
237/98 has AIR	BUBBLE				···			131	⊠ Pi	oject M	1anage:	r/Office:	<u>e.</u>	117	<u>C L</u>	EU		96°	141	1901	1	Semivoa Metals
									□ c	lient Na	ame: _										[Pesticide TDS
					<u> </u>															_		Total Hardnes Total Solids
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