



HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

September 30, 2008

Mr. Jerry Wickham
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

RECEIVED

2:34 pm, Oct 02, 2008

Alameda County
Environmental Health

Subject: **Transmittal of Semi-Annual Monitoring Report**
Third Quarter 2008
Former Beacon Station 12574
22315 Redwood Road, Castro Valley, California

Mr. Wickham:

At the request of Ultramar Inc., Horizon Environmental Inc. (Horizon) is forwarding the enclosed *Semi-Annual Groundwater Monitoring Report* dated September 30, 2008. The report documents results of third quarter 2008 groundwater monitoring at the subject site.

Please call Horizon at 916-939-2170 if you have any questions or require additional information.

Sincerely,

HORIZON ENVIRONMENTAL INC.

Karen P. Liptak
Staff Geologist

Enclosure

cc: Mr. Robert Ehlers, Valero Energy Corp.
Mr. Bill Courtney



HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

September 30, 2008

Mr. Jerry Wickham, Haz Mat Specialist
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Subject: **Semi-Annual Groundwater Monitoring Report**
Third Quarter 2008
Former Beacon Station No. 12574 RWQCB Case No. 01-0167
22315 Redwood Road, Castro Valley, California ACDEH: RO0000355

Mr. Wickham:

At the request of Ultramar Inc. (Ultramar), Horizon Environmental Inc. (Horizon) has prepared this Monitoring Report which documents third quarter 2008 groundwater monitoring at the above-referenced site (Figure 1). There are currently five groundwater monitoring wells (MW-1 through MW-4 and MW-6) associated with this site. Wells MW-1 through MW-4 are located within the property boundaries, while well MW-6 is located off-site to the south of the property on an adjoining property (Figure 2).

Groundwater Monitoring

Groundwater monitoring activities were performed by Doulos Environmental Company (Doulos) on July 29, 2008 according to Ultramar Field Procedures (Attachment A). Monitoring activities included measurement of static groundwater levels, purging groundwater from the wells, collection of groundwater samples, and preparation and delivery of the groundwater samples to the analytical laboratory by Doulos.

The depth to water (DTW) levels in four of the five monitoring wells were measured to the nearest 0.01-foot from the top-of-casing (TOC). According to Doulos' field notes, monitoring well MW-3 appears to have been paved over and was inaccessible. Water level measurements were subtracted from surveyed TOC elevations to obtain groundwater elevations, as listed in Table 1. The groundwater physical parameters of conductivity, pH and temperature were monitored with field instrumentation during the purging process. Groundwater levels and purge data are recorded on the Doulos Sampling Information Sheets (Attachment B). Doulos transported the approximately 40 gallons of purged groundwater to Instrat Inc. for disposal. Purge water disposal documentation is included in Attachment B.

Groundwater samples were collected by Doulos from monitoring wells MW-1 and MW-2 and were submitted under chain-of-custody documentation to Kiff Analytical LLC, a California Department of Health Services-certified analytical laboratory (ELAP No. 2236) located in

Davis, California. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg); the volatile aromatic compounds benzene, toluene, ethylbenzene and total xylenes (BTEX); and the fuel oxygenate methyl-t-butyl ether (MTBE) by Environmental Protection Agency (EPA) Method 8260B.

Groundwater Monitoring Results

Groundwater elevation data was used to construct the Groundwater Elevation Contour Map (Figure 2). The groundwater flow direction beneath the site is primarily towards the southwest at an average rate of 0.01 foot / foot. Groundwater monitoring previously performed at the site has indicated a similar groundwater flow direction and magnitude.

Groundwater analytical results are summarized in Table 1. The distribution of TPHg, Benzene and MTBE analytical data are shown on Figure 3. The analytical report is contained in Attachment C. Historical groundwater data as reported by previous consultants is included as Attachment D.

GeoTracker Electronic Data Deliverables

The analytical electronic data deliverable (EDD) was prepared and uploaded by Kiff. The groundwater level EDD (GEO_WELL) was prepared and uploaded by Horizon. The GEO_WELL upload confirmation sheet for this quarter and the Quarterly Monitoring Report EDD (GEO_REPORT) upload confirmation sheet for the previous quarter are contained in Attachment E.

Discussion and Recommendations

Continued elevated concentrations of TPHg, BTEX and MTBE in onsite wells MW-1 and MW-2 indicate limited hydrocarbon degradation beneath the site. Horizon has recommended that high-vacuum dual-phase extraction (HVDPE) remedial testing be performed to evaluate the effectiveness in reducing the elevated concentrations of TPHg, BTEX and MTBE and to advance the site towards eventual Closure status.

Horizon contacted the Alameda County Department of Environmental Health (ACDEH), which requested that a Work Plan describing the HVDPE methods be prepared and submitted for the proposed remedial testing work. Horizon has initiated preparation the Work Plan for the proposed HVDPE testing, which should be submitted to the ACDEH during the Fourth Quarter 2008.

If you have any questions, please contact Horizon at (916) 939-2170.

Sincerely,

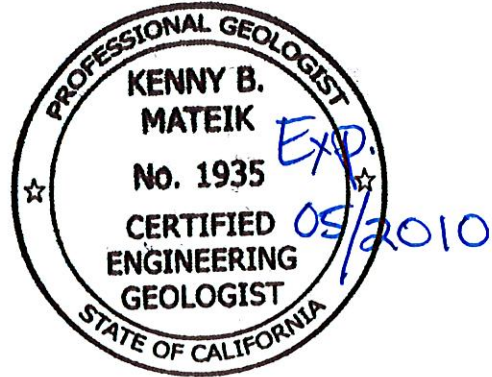
HORIZON ENVIRONMENTAL INC.



Kenny B. Mateik
Professional Geologist, C.E.G. No. 1935



Karen P. Liptak
Staff Geologist



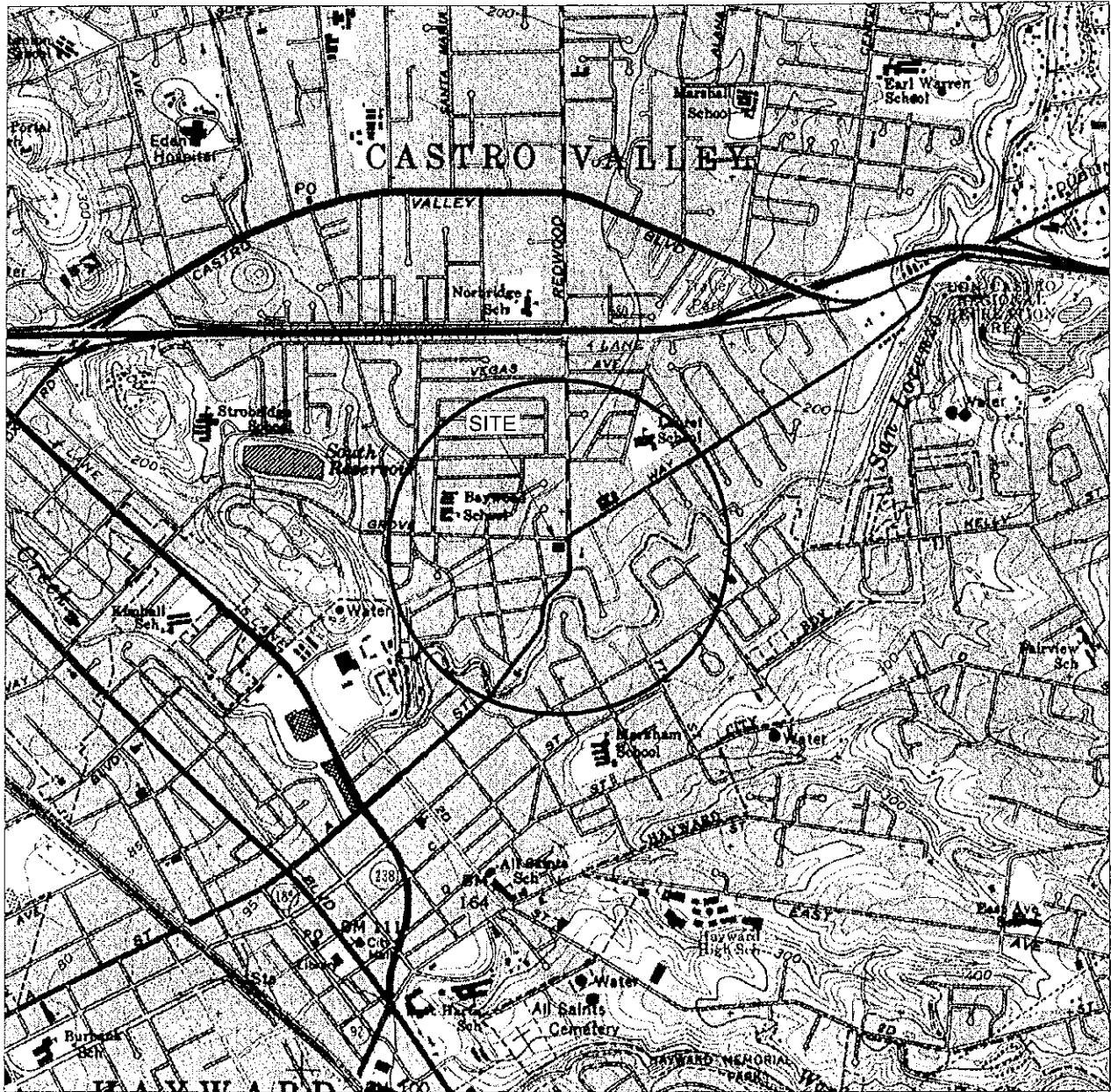
Attachments:

- Figure 1: Site Vicinity Map
- Figure 2: Site Map / Groundwater Elevation Contour Map
- Figure 3: Groundwater Analytical Summary

Table 1: Groundwater Monitoring Data

- Attachment A: Ultramar Field Procedures
- Attachment B: Doulos Sampling Information Sheets / Purge Water Disposal Documentation
- Attachment C: Analytical Report
- Attachment D: Historical Groundwater Data
- Attachment E: GeoTracker Electronic Data Deliverable Confirmation Sheets

c: Mr. Robert Ehlers, Valero Energy Corp.
Mr. Bill Courtney, Property Manager



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

R.2 W.



QUADRANGLE LOCATION



SCALE 1:24,000



NORTH



HORIZON ENVIRONMENTAL INC.

Project Number: 1574.41
 Prepared By: K. Liptak
 Reviewed By: K. Matek

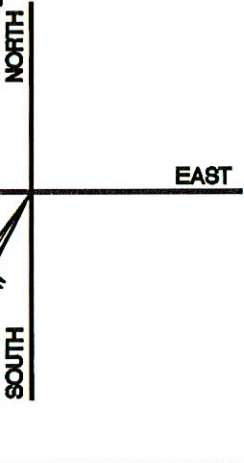
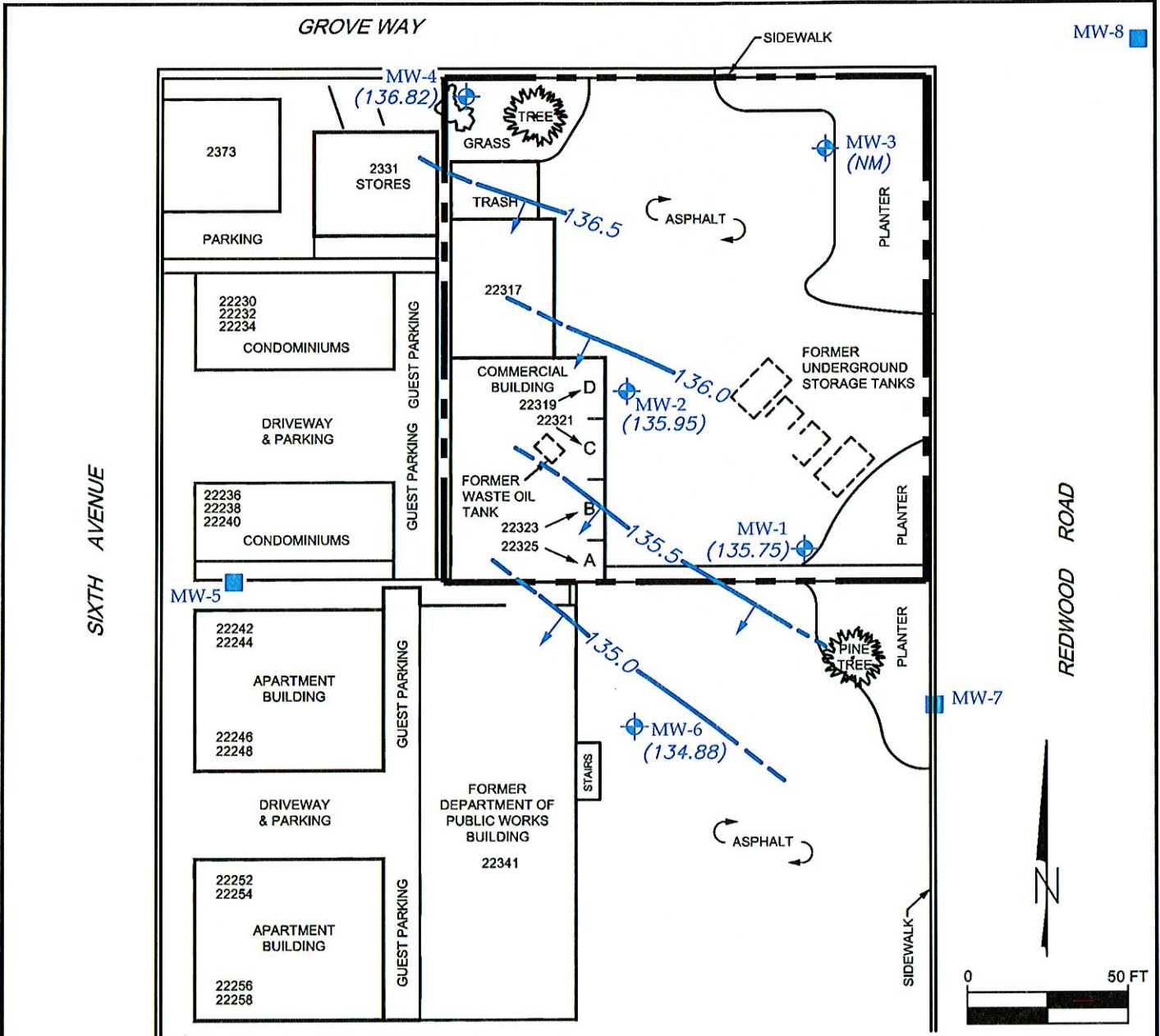
Drawn By: M. LaCoste
 Date: 10/7/04
 Revised Date:

SITE LOCATION MAP

FORMER BEACON STATION NO. 12574
 22315 REDWOOD ROAD
 CASTRO VALLEY, CA.

FIGURE

1

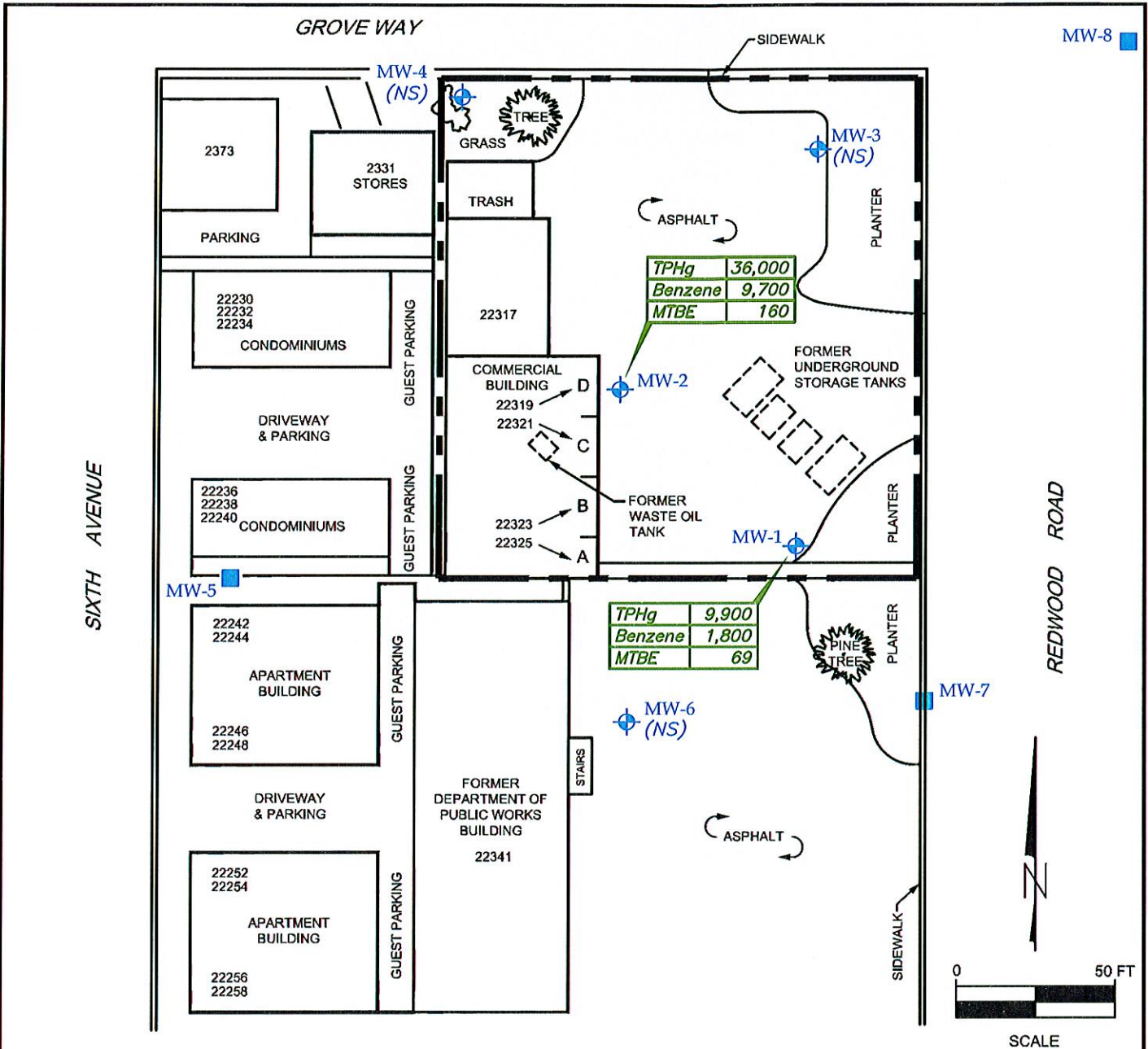


Date	Direction Of Groundwater Flow	ID No.
08/31/04	S 26 W	#1
02/01/05	S 35 W	#2
07/29/05	S 32 W	#3
01/16/05	S 36 W	#4
08/30/06	S 28 W	#5
02/13/07	S 35 W	#6
08/13/07	S 32 W	#7
02/11/08	S 28 W	#8
07/29/08	S 26 W	#9

- EXPLANATION:**
- MW-6 Groundwater Monitoring Well
 - MW-8 Abandoned Monitoring Well
 - (136.82)* Elevation of Groundwater Measured In Feet; Datum Is Mean Sea Level
 - Line Of Equal Elevation Of Groundwater Measured In Feet; Datum Is Mean Sea Level
 - Direction Of Groundwater Flow
 - (NM)* Not Measured
 - Wells Measured 7/29/08

Source: Figure Modified From Survey Drawing Prepared By Majors For Tesoro Refining.

<p>HORIZON ENVIRONMENTAL INC.</p>	<p>SITE MAP/GROUNDWATER ELEVATION CONTOUR MAP</p>	<p>FIGURE</p>
	<p>FORMER BEACON STATION NO. 12574 22315 REDWOOD ROAD CASTRO VALLEY, CA.</p>	<p>2</p>
<p>Project Number: 1574.45 Prepared By: K. Liptak Reviewed By: K. Mateik</p>	<p>Drawn By: C. Bechtell Date: 8/08 Revised Date:</p>	



EXPLANATION:

⊕ MW-6 Groundwater Monitoring Well

■ MW-8 Abandoned Monitoring Well


TPHg	36,000
Benzene	9,700
MTBE	160

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE IN PARTS PER MILLION (ppm)
 BENZENE CONCENTRATION IN ppm
 METHYL-TERT BUTYL ETHER IN ppm

(NS) Not Sampled

Wells Sampled 07/29/08

Source: Figure Modified From Survey Drawing Prepared By Majors For Tesoro Refining.

 HORIZON ENVIRONMENTAL INC.		GROUNDWATER ANALYTICAL SUMMARY FORMER BEACON STATION NO. 12574 22315 REDWOOD ROAD CASTRO VALLEY, CA.	FIGURE 3
Project Number: 1574.45 Prepared By: K. Liptak Reviewed By: K. Mateik	Drawn By: C. Bechtell Date: 08/08 Revised Date:		

**Table 1 - Groundwater Monitoring Data
Former Beacon Station No. 12574
22315 Redwood Road
Castro Valley, California**

Well Number	Date	TPHg ppb	Benzene ppb	Toluene ppb	Ethylbenz. ppb	Xylenes ppb	MTBE ppb	Depth to GW	T.O.C. Elevation	GW Elevation	Comments
MW-1	02/11/02	41,000	7,600	160	1,600	4,200	640	22.58	158.70	136.12	
	08/21/02	7,400	2,000	31	220	510	270	23.18		135.52	
	03/04/03	30,000	6,000	130	1,300	2,900	490	22.43		136.27	
	09/09/03	18,000	3,900	69	760	1,700	390	23.02		135.68	
	03/23/04	24,000	4,500	89	1,000	2,000	410	21.97		136.73	
	08/31/04	22,000	4,000	77	780	1,600	290	23.35		135.35	no comments
	02/01/05	36,000	6,800	160	1,800	3,000	360	21.98		136.72	no comments
	07/29/05	14,000	2,400	54	460	750	170	22.55		136.15	no comments
	01/16/06	18,000	2,900	61	860	1,300	200	21.75		136.95	no comments
	08/30/06	4,800	1,400	22	150	240	110	22.74		135.96	no comments
	02/13/07	5,300	1,100	49	210	280	110	22.31		136.39	no comments
	08/13/07	10,000	2,300	49	11	630	160	23.10		135.60	no comments
	02/11/08	30,000	5,400	260	2,300	3,400	150	21.10		137.60	no comments
07/29/08	9,900	1,800	28	720	220	69	22.95		135.75	no comments	
MW-2	02/11/02	17,000	3,100	270	690	1,600	660	21.03	157.33	136.30	
	08/21/02	6,800	1,600	44	290	260	440	21.60		135.73	
	03/04/03	20,000	3,400	200	590	1,100	670	20.86		136.47	
	09/09/03	19,000	3,200	120	630	940	630	21.45		135.88	
	03/23/04	18,000	3,200	110	640	740	580	20.41		136.92	
	08/31/04	13,000	2,800	59	510	420	430	21.75		135.58	no comments
	02/01/05	17,000	3,200	110	700	730	440	20.42		136.91	no comments
	07/29/05	22,000	3,900	210	770	930	360	20.97		136.36	no comments
	01/16/06	20,000	3,900	120	770	790	370	20.19		137.14	slight sheen / odor
	08/30/06	14,000	3,000	79	480	450	390	21.14		136.19	no comments
	02/13/07	14,000	3,100	110	600	620	340	20.73		136.60	sheen
	08/13/07	14,000	4,600	150	560	410	240	21.41		135.92	no comments
	02/11/08	46,000	12,000	4,400	1,700	5,200	150	19.35		137.98	no comments
07/29/08	36,000	9,700	840	1,400	4,000	160	21.38		135.95	no comments	
MW-3	02/11/02	ns	ns	ns	ns	ns	ns	21.55	159.23	137.68	
	08/21/02	ns	ns	ns	ns	ns	ns	22.00		137.23	
	03/04/03	ns	ns	ns	ns	ns	ns	21.48		137.75	
	09/09/03	ns	ns	ns	ns	ns	ns	21.84		137.39	
	03/23/04	ns	ns	ns	ns	ns	ns	20.82		138.41	
	08/31/04	ns	ns	ns	ns	ns	ns	21.93		137.30	no comments
	02/01/05	ns	ns	ns	ns	ns	ns	20.56		138.67	no comments
	07/29/05	ns	ns	ns	ns	ns	ns	21.37		137.86	no comments
	01/16/06	ns	ns	ns	ns	ns	ns	20.75		138.48	no comments
	08/30/06	ns	ns	ns	ns	ns	ns	21.60		137.63	no comments
	02/13/07	ns	ns	ns	ns	ns	ns	21.37		137.86	no comments
	08/13/07	ns	ns	ns	ns	ns	ns	nm		nm	well paved over
	02/11/08	ns	ns	ns	ns	ns	ns	nm		nm	well paved over
07/29/08	ns	ns	ns	ns	ns	ns	nm		nm	well paved over	

**Table 1 - Groundwater Monitoring Data
Former Beacon Station No. 12574
22315 Redwood Road
Castro Valley, California**

Well Number	Date	TPHg ppb	Benzene ppb	Toluene ppb	Ethylbenz. ppb	Xylenes ppb	MTBE ppb	Depth to GW	T.O.C. Elevation	GW Elevation	Comments
MW-4	02/11/02	ns	ns	ns	ns	ns	ns	16.81	154.13	137.32	
	08/21/02	ns	ns	ns	ns	ns	ns	17.58		136.55	
	03/04/03	ns	ns	ns	ns	ns	ns	16.70		137.43	
	09/09/03	ns	ns	ns	ns	ns	ns	17.48		136.65	
	03/23/04	ns	ns	ns	ns	ns	ns	16.35		137.78	
	08/31/04	ns	ns	ns	ns	ns	ns	nm		nm	no comments
	02/01/05	ns	ns	ns	ns	ns	ns	16.70		137.43	no comments
	07/29/05	ns	ns	ns	ns	ns	ns	17.06		137.07	no comments
	01/16/06	ns	ns	ns	ns	ns	ns	16.56		137.57	no comments
	08/30/06	ns	ns	ns	ns	ns	ns	17.18		136.95	no comments
	02/13/07	ns	ns	ns	ns	ns	ns	17.01		137.12	no comments
	08/13/07	ns	ns	ns	ns	ns	ns	17.94		136.19	no comments
	02/11/08	ns	ns	ns	ns	ns	ns	15.68		138.45	not sampled
07/29/08	ns	ns	ns	ns	ns	ns	17.31		136.82	not sampled	
MW-5	02/11/02	ns	ns	ns	ns	ns	ns	15.70	150.73	135.03	
	08/21/02	ns	ns	ns	ns	ns	ns	16.17		134.56	
	03/04/03	ns	ns	ns	ns	ns	ns	15.46		135.27	
	09/09/03	ns	ns	ns	ns	ns	ns	16.05		134.68	
	03/23/04	ns	ns	ns	ns	ns	ns	14.88		135.85	
	08/31/04	ns	ns	ns	ns	ns	ns	nm		nm	unable to locate due to construction
	02/01/05	ns	ns	ns	ns	ns	ns	nm		nm	unable to locate due to construction
	07/29/05	ns	ns	ns	ns	ns	ns	nm		nm	unable to locate due to construction
01/16/06	--	--	--	--	--	--	--		--	well destroyed	
MW-6	02/11/02	ns	ns	ns	ns	ns	ns	20.78	156.11	135.33	
	08/21/02	ns	ns	ns	ns	ns	ns	21.41		134.70	
	03/04/03	ns	ns	ns	ns	ns	ns	20.64		135.47	
	09/09/03	ns	ns	ns	ns	ns	ns	21.23		134.88	
	03/23/04	ns	ns	ns	ns	ns	ns	20.21		135.90	
	08/31/04	ns	ns	ns	ns	ns	ns	21.50		134.61	no comments
	02/01/05	ns	ns	ns	ns	ns	ns	20.22		135.89	no comments
	07/29/05	ns	ns	ns	ns	ns	ns	20.78		135.33	no comments
	01/16/06	ns	ns	ns	ns	ns	ns	19.92		136.19	no comments
	08/30/06	<50	<0.50	<0.50	<0.50	<0.50	71	20.94		135.17	no comments
	02/13/07	ns	ns	ns	ns	ns	ns	20.35		135.76	no comments
	08/13/07	ns	ns	ns	ns	ns	ns	21.29		134.82	no comments
	02/11/08	ns	ns	ns	ns	ns	ns	19.50		136.61	not sampled
07/29/08	ns	ns	ns	ns	ns	ns	21.23		134.88	not sampled	

Notes:

TPHg = Total Petroleum Hydrocarbons as gasoline
 TPHd = Total Petroleum Hydrocarbons as diesel
 MTBE = Methyl Tertiary-Butyl Ether
 < = less than the specified laboratory detection limit
 ppb = parts per billion

nm = not measured
 ns = not sampled
 nc = not calculated
 na = not analyzed

T.O.C. = Top of casing
 Depths and Elevations recorded in feet.
 GW = Groundwater

ATTACHMENT A

ULTRAMAR FIELD PROCEDURES

ATTACHMENT A - ULTRAMAR FIELD PROCEDURES

The following section describes procedures used by field personnel in the performance of ground water sampling at Ultramar Inc. sites.

Ground Water Level and Total Depth Determination

A water level indicator is lowered down the well and a measurement of the depth to water from an established reference point on the casing is taken. The indicator probe is used to sound the bottom of the well and a measurement of the total depth of the well is taken. Both the water level and total depth measurements are taken to the nearest 0.01-foot.

Visual Analysis of Ground Water

Prior to purging and sampling ground water monitoring wells, a water sample is collected from each well for subjective analysis. The visual analysis involves gently lowering a clean, disposable, polyethylene bailer to approximately one-half the bailer length past the water table interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating product or the appearance of a petroleum product sheen. If measurable free product is noted in the bailer, a water/product interface probe is used to determine the thickness of the free product to the nearest 0.01-foot. The thickness of free product is determined by subtracting the depth to product from the depth to water.

Monitoring Well Purging and Sampling

Monitoring wells are purged by removing approximately four casing volumes of water from the well using a clean disposable bailer or electrical submersible purge pump. Purge volumes are calculated prior to purging. During purging, the temperature, pH, and electric conductivity of the purge water are monitored. The well is considered to be sufficiently purged when: The four casing volumes have been removed; the temperature, pH, and conductivity values have stabilized to within 10% of the initial readings; and the ground water being removed is relatively free of suspended solids. After purging, ground water levels are allowed to stabilize to within 80% of the initial water level reading. A water sample is then collected from each well with a clean, disposable polyethylene bailer. If the well is bailed or pumped dry prior to removing the minimum volume of water, the ground water is allowed to recharge. If the well has recharged to within 80% of the initial depth to water reading within two hours, the well will continue to be purged until the minimum volume of water has been removed. If the well has not recharged to at least 80% of the initial depth to water reading within two hours, the well is considered to contain formational water and a ground water sample is collected. Ground water removed from the well is stored in 55-gallon drums at the site and labeled pending disposal.

In wells where free product is detected, the wells will be bailed to remove the free product. An estimate of the volume of product and water well be recorded. If the free product thickness is reduced to the point where a measurable thickness is no longer present in the well, a ground water sample will be collected. If free product persists throughout the purging process, a final free product thickness measurement will be taken and a ground water sample will not be collected.

Ground water samples are stored in 40-milliliter vials so that air passage through the sample is minimized (to prevent volatilization of the sample). The vial is tilted and filled slowly until an upward convex meniscus forms over the mouth of the vial. The Teflon™ side of the septum (in cap) is then placed against the meniscus, and the cap is screwed on tightly. The sample is then inverted and the bottle is tapped lightly to check for air bubbles. If an air bubble is present in the vial, the cap is removed and more sample is transferred from the bailer. The vial is then resealed and rechecked for air bubbles. The sample is then appropriately labeled and stored on ice from the time of collection through the time of delivery to the laboratory. The Chain-of-Custody form is completed to ensure sample integrity. Ground water samples are transported to a state-certified laboratory and analyzed within the U.S. Environmental Protection Agency-specified hold times for the specified analytes.

ATTACHMENT B

DOULOS SAMPLING INFORMATION SHEETS

PURGE WATER DISPOSAL DOCUMENTATION

DOULOS ENVIRONMENTAL, INC.
GROUNDWATER/LIQUID LEVEL DATA
(measurements in feet)

Project Address: Beacon # 12574 22315 Redwood Rd.
Castro Valley, Ca.

Date: 7/29/08

Project No.: 12574-28

Recorded by: ROBERTO

Well No.	Time	Well Elev. TOC	Depth to Groundwater	Measured Total Depth	Groundwater Elevation	Depth to Product	Product Thickness	Comments
MW-1	8:20		22.95	29.73				
MW-2	8:14		21.38	29.50				
MW-3								→ PAVED OVER
MW-4	8:09		17.31	24.75				
MW-6	8:00		21.23	27.99				

Notes:

Client: Ultramar
 Site: Beacon #12574
22315 Redwood Rd.
Castro Valley, Ca.

Sampling Date: 7/29/08
 Project No.: _____
 Well Designation: MW-1

Is setup of traffic control devices required? NO YES
 Is there standing water in the well box? NO YES
 Is top of casing cut level? NO YES
 Is well cap sealed and locked? NO YES
 Height of well casing riser (in inches): 4
 Well cover type: 8" or 12" UV _____ 12" EMCO _____ 8" or 12" BK _____ 8" Christy _____
 12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____
 12" CNI _____ 36" CNI _____ 12" Pomoco _____ Other: 12" ELIZABETH.NJ
 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 _____ Disposable Tubing _____

Well Diameter: 2" _____ 4" 6" _____ 8" _____
 Purge Vol. Multiplier: _____ 0.16 _____ 0.65 _____ 1.47 _____ 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 8:20 Time: 10:25 Calculated purge: 17.6
 Depth of well: 29.73 Depth to water: 24.01 Actual purge: 18
 Depth to water: 22.95

Start purge: 8:25 Sampling time: 10:27

Time	Temperature	E.C.	pH	Turbidity	Volume
8:28	22.4	923	7.83		1
8:30	22.6	875	7.54		2
8:32	23.0	856	7.39		3
8:35	23.3	821	7.31		4

Sample appearance: clear Lock: DOLPHIN

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

Remarks: _____

Signature: _____

Client: Ultramar
 Site: Beacon #12574
22315 Redwood Rd.
Castro Valley, Ca.

Sampling Date: 7/29/08
 Project No.: _____
 Well Designation: MW-2

Is setup of traffic control devices required? NO YES
 Is there standing water in the well box? NO YES
 Is top of casing cut level? NO YES
 Is well cap sealed and locked? NO YES
 Height of well casing riser (in inches): 4
 Well cover type: 8" or 12" UV _____ 12" EMCO _____ 8" or 12" BK _____ 8" Christy _____
 12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____
 12" CNI _____ 36" CNI _____ 12" Pomeco _____ Other: TD ELIZABETH
 General condition of wellhead assembly: Excellent _____ Good _____ Fair _____ Poor _____

time: _____ hours
 Above TOC _____ Below TOC
 If no, see remarks
 If no, see remarks

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer _____ Centrifugal pump
 Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" _____ 4" 6" _____ 8" _____
 Purge Vol. Multiplier: _____ 0.16 _____ 0.65 _____ 1.47 _____ 2.61 gal/ft.
 Initial Measurement
 Time: 8:14 Recharge Measurement
 Time: 10:03 Calculated purge: 21.1
 Depth of well: 29.50 Depth to water: 22.20 Actual purge: 21.5
 Depth to water: 21.38

Start purge: 8:43 Sampling time: 10:05

Time	Temperature	E.C.	pH	Turbidity	Volume
8:47	23.2	1183	6.97		1
8:50	24.3	1172	6.78		2
8:53	24.8	1165	6.70		3
8:56	24.9	1159	6.67		4

Sample appearance: clear Lock: NA

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

Remarks: _____

Signature: _____

NON-HAZARDOUS WATER TRANSPORT FORM

GENERATOR

Name: Valero Corporation
Address: P. O. Box 696000
San Antonio, TX 78269-6000
Phone: (210) 345-2227

CUSTOMER

Name: Doulos Environmental, Inc.
Address: P. O. Box 2559
Orangevale, CA 95662
Phone: 916-990-0333

DESCRIPTION

Description of Water : Purge water from Monitoring Wells

Volume/Weight: 40 Units: gallons Container(s): Poly tank

This non-hazardous waste water is monitoring well purge water, auger rinsate, sampling equipment rinsate, tank rinsate, combination thereof, or as described above. Described water may contain dissolved hydrocarbons. I certify that the above named material has been properly described and classified according to applicable regulations, and possesses no characteristics that would require its handling as hazardous waste.

Generator/Authorized Agent: Hal Hansen Hal Hansen 9/4/08
Print Sign Date

TRANSPORTER

Name: Doulos Environmental
Address: P. O. Box 2559
Orangevale, CA 95662
Phone: 916-990-0333

Job No: 12574 - Castro Valley
Truck ID: _____
Driver: met 9/4/08
Sign Date

DISPOSAL FACILITY

Name: InStrat Inc.
Address: P. O. Box 2279
Davis, CA

Quantity: 40
Units: gallons
Disposal Method: GAC

Received by: Matt Belcher Matt Belcher 9-4-08
Print Sign Date

ATTACHMENT C

ANALYTICAL REPORT



Report Number : 63939

Date : 07/31/2008

Ken Mateik
Horizon Environmental
4970 Windplay Drive, Suite 5
El Dorado Hills, CA 95762

Subject : 2 Water Samples
Project Name : Beacon
Project Number : 12574 Castro Valley
P.O. Number : 12574-32

Dear Mr. Mateik,

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 : 63939

Date : 07/31/2008

Project Name : **Beacon**

Project Number : **12574 Castro Valley**

Sample : **MW-1**

Matrix : Water

Lab Number : 63939-01

Sample Date :07/29/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1800	5.0	ug/L	EPA 8260B	07/30/2008
Toluene	28	5.0	ug/L	EPA 8260B	07/30/2008
Ethylbenzene	720	5.0	ug/L	EPA 8260B	07/30/2008
Total Xylenes	220	5.0	ug/L	EPA 8260B	07/30/2008
Methyl-t-butyl ether (MTBE)	69	5.0	ug/L	EPA 8260B	07/30/2008
TPH as Gasoline	9900	500	ug/L	EPA 8260B	07/30/2008
1,2-Dichloroethane-d4 (Surr)	99.6		% Recovery	EPA 8260B	07/30/2008
Toluene - d8 (Surr)	96.9		% Recovery	EPA 8260B	07/30/2008

Sample : **MW-2**

Matrix : Water

Lab Number : 63939-02

Sample Date :07/29/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	9700	25	ug/L	EPA 8260B	07/31/2008
Toluene	840	6.0	ug/L	EPA 8260B	07/30/2008
Ethylbenzene	1400	6.0	ug/L	EPA 8260B	07/30/2008
Total Xylenes	4000	6.0	ug/L	EPA 8260B	07/30/2008
Methyl-t-butyl ether (MTBE)	160	6.0	ug/L	EPA 8260B	07/30/2008
TPH as Gasoline	36000	600	ug/L	EPA 8260B	07/30/2008
1,2-Dichloroethane-d4 (Surr)	97.4		% Recovery	EPA 8260B	07/30/2008
Toluene - d8 (Surr)	97.4		% Recovery	EPA 8260B	07/30/2008

Report Number : 63939

Date : 07/31/2008

QC Report : Method Blank Data

Project Name : **Beacon**

Project Number : **12574 Castro Valley**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/30/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/30/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/30/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/30/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/30/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/30/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/30/2008
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	07/30/2008
Toluene - d8 (Surr)	97.4		%	EPA 8260B	07/30/2008

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 63939

Date : 07/31/2008

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Beacon**

Project Number : **12574 Castro Valley**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	63922-03	<0.50	39.8	40.0	37.3	37.8	ug/L	EPA 8260B	7/30/08	93.8	94.5	0.733	70-130	25
Benzene	63932-01	<0.50	39.8	40.1	37.5	38.0	ug/L	EPA 8260B	7/30/08	94.1	94.6	0.497	70-130	25
Methyl-t-butyl ether	63932-01	<0.50	39.8	40.1	37.7	37.2	ug/L	EPA 8260B	7/30/08	94.8	93.0	2.01	70-130	25
Toluene	63932-01	<0.50	39.2	39.5	36.7	37.0	ug/L	EPA 8260B	7/30/08	93.5	93.7	0.212	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 63939

Date : 07/31/2008

QC Report : Laboratory Control Sample (LCS)

Project Name : **Beacon**

Project Number : **12574 Castro Valley**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.1	ug/L	EPA 8260B	7/30/08	94.0	70-130
Benzene	40.1	ug/L	EPA 8260B	7/30/08	94.2	70-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	7/30/08	89.3	70-130
Toluene	39.5	ug/L	EPA 8260B	7/30/08	92.6	70-130

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800



2795 2nd Street, Suite 300
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4802

SRG # / Lab No. 63939

Page 1 of 1

Project Contact (Hardcopy or PDF to):
 k. Mateik

EDF Report? Yes No

Company/Address:
 Horizon

Recommended but not mandatory to complete this section:
 Sampling Company Log Code: DEIO

Phone No.: 939-2170 FAX No.: 939-2172
 Global ID: T0600100155

Project Number: 12574 Castro Valley P.O. No.: 12574-32
 EDF Deliverable to (Email Address):
 kmateik@horizonenvironmental.net

Project Name: Beacon Project Address: Castro Valley

Sampler Signature (below):

Chain-of-Custody Record and Analysis Request														TAT														
Analysis Request														For Lab Use Only														
40 ml VOA	Sieve	Poly	Glass	Tedlar	HCl	HNO ₃	None	Water	Soil	Air	MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)		TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav (1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 824.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 8010)	W.E.T. Lead (STLC)			
MW-1					X	X		X			X	X	X															STAT 01
MW-2					X	X		X			X	X	X															STAT 02

Relinquished by: Date: _____ Time: _____ Received by: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: _____

Relinquished by: _____ Date: 073008 Time: (1100) Received by Laboratory: KTH

Remarks: 3rd Quarter Groundwater Monitoring

Bill to: Robert Ehlers

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
2.6	JEH	073008	1325	IR 1	(Yes) No

ATTACHMENT D

HISTORICAL GROUNDWATER DATA

Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet) ¹	Date Sounded	Depth to Groundwater (Feet) ¹	Groundwater Elevation (Feet) ²	Well Depth (Feet)
MW-1	156.55	03/27/92	22.43	134.12	-
		06/04/92	23.40	133.15	-
		09/23/92	24.07	132.48	-
		11/12/92	24.16	132.39	29.33
		02/02/93	21.87	134.68	29.80
		05/07/93	22.58	133.97	29.84
		05/18/93	22.66	133.89	-
		08/11/93	23.41	133.14	29.81
		11/05/93	24.09	132.46	29.81
		03/01/94	22.76	133.79	29.85
		06/02/94	23.24	133.31	29.85
		09/09/94	23.93	132.62	29.86
		12/20/94	22.94	133.61	29.85
		03/08/95	22.20	134.35	29.71
		06/14/95	22.65	133.90	29.70
		09/26/95	23.44	133.11	29.71
		12/27/95	23.04	133.51	29.72
		03/26/96	21.39	135.16	29.71
		06/05/96	22.43	134.12	29.73
		09/16/96	24.42	132.13	29.74
		12/02/96	23.14	133.41	29.75
		03/10/97	22.30	134.25	29.76
		06/12/97	22.97	133.58	29.76
		09/29/97	23.35	133.20	29.78
		12/01/97	22.73	133.82	29.79
		03/19/98	20.56	135.99	29.78
		05/28/98	21.78	134.77	29.76
		08/31/98	22.64	133.91	29.78
		12/08/98	22.87	133.68	29.76
		02/17/99	21.53	135.02	29.75
06/10/99	22.74	133.81	29.74		
09/07/99	23.06	133.49	29.73		
12/13/00	23.06	133.46	29.74		
		3/16/00	20.66	135.89	29.75
		6/12/00	22.53	134.02	29.76
		9/5/00	22.73	133.82	29.74
		11/13/00	23.20	133.35	29.74
		2/26/01	21.75	134.80	29.73
		6/12/01	22.70	133.85	29.73
		9/21/01	23.40	133.15	29.73
MW-2	155.17	03/27/92	20.82	134.35	-
		06/04/92	21.81	133.36	-
		09/23/92	22.45	132.72	-
		11/12/92	22.60	132.57	29.71

Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet) ¹	Date Sounded	Depth to Groundwater (Feet) ¹	Groundwater Elevation (Feet) ²	Well Depth (Feet)
		02/02/93	20.28	134.89	29.73
		05/07/93	20.97	134.20	29.73
		05/18/93	21.06	134.11	-
		08/11/93	21.85	133.32	29.70
		11/05/93	22.32	132.85	29.70
		03/01/94	21.19	133.98	29.68
		06/02/94	21.59	133.58	29.69
		09/09/94	22.33	132.84	29.66
		12/20/94	21.37	133.80	29.65
		03/08/95	20.60	134.57	29.52
		06/14/95	21.04	134.13	29.54
		09/26/95	21.84	133.33	29.53
		12/27/95	21.44	133.73	29.56
		03/26/96	19.81	135.36	29.56
		06/05/96	20.83	134.34	29.59
		09/16/96	21.93	133.24	29.58
		12/02/96	21.54	133.63	29.58
		03/10/97	20.71	134.46	29.58
		06/12/97	21.41	133.76	29.52
		09/29/97	21.26	133.91	29.51
		12/01/97	20.97	134.20	29.50
		03/19/98	18.98	136.19	29.51
		05/28/98	20.22	134.95	29.50
		08/31/98	21.09	134.08	29.51
		12/08/98	21.31	133.86	29.50
		02/17/99	20.02	135.15	29.51
		06/10/99	21.30	133.87	29.50
		09/07/99	21.49	133.68	29.50
		12/13/99	21.52	133.65	29.50
		3/16/00	19.13	136.04	29.50
		6/12/00	20.93	134.24	29.50
		9/5/00	21.15	134.02	29.50
		11/13/00	21.66	133.51	29.50
		2/26/01	20.17	135.00	29.50
		6/12/01	21.15	134.02	29.50
		9/21/01	21.63	133.54	29.50
MW-3	157.13	03/27/92	21.46	135.67	-
		06/04/92	22.34	134.79	-
		09/23/92	22.84	134.29	-
		11/12/92	23.04	134.09	29.55
		02/02/93	21.03	136.10	29.45
		05/07/93	21.59	135.54	29.53
		05/18/93	21.73	135.40	-
		08/11/93	22.31	134.82	29.41
		11/05/93	22.85	134.28	29.41

Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet) ¹	Date Sounded	Depth to Groundwater (Feet) ¹	Groundwater Elevation (Feet) ²	Well Depth (Feet)
		03/01/94	21.97	135.16	29.55
		06/02/94	22.29	134.84	29.56
		09/09/94	22.91	134.22	29.56
		12/20/94	22.11	135.02	29.54
		03/08/95	21.40	135.73	29.38
		06/14/95	21.80	135.33	29.36
		09/26/95	22.38	134.75	29.37
		12/27/95	22.07	135.06	29.37
		03/26/96	20.73	136.40	29.38
		06/05/96	21.54	135.59	29.40
		09/16/96	22.37	134.76	29.43
		12/02/96	22.35	134.78	29.45
		03/10/97	21.44	135.69	29.47
		06/12/97	21.97	135.16	29.45
		09/29/97	22.30	134.83	29.45
		12/01/97	21.78	135.35	29.46
		03/19/98	19.88	137.25	29.46
		05/28/98	20.91	136.22	29.47
		08/31/98	21.61	135.52	29.47
		12/08/98	21.83	135.30	29.47
		02/17/99	20.81	130.32	29.45
		06/10/99	21.61	135.52	29.45
		09/07/99	21.91	135.22	29.45
		12/13/99	21.93	135.20	29.44
		3/16/00	19.86	137.27	29.46
		6/12/00	21.61	135.52	29.46
		9/5/00	21.54	135.59	29.47
		11/13/00	21.98	135.15	29.46
		2/26/01	20.65	136.48	29.46
		6/12/01	21.70	135.43	29.46
		9/21/01	22.05	135.07	29.46
MW-4	151.96	05/18/93	17.55	134.41	-
		08/11/93	17.50	134.46	28.43
		11/05/93	15.84	136.12	28.43
		03/01/94	17.35	134.61	28.11
		06/02/94	17.68	134.28	28.12
		09/09/94	18.19	133.77	28.13
		12/20/94	17.52	134.44	28.10
		03/08/95	16.82	135.14	27.97
		06/14/95	17.22	134.74	27.97
		09/26/95	17.79	134.17	27.91
		12/27/95	17.47	134.49	27.89
		03/26/96	16.32	135.64	27.89
		06/05/96	17.10	134.86	27.88
		09/16/96	17.85	134.11	27.89

Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet) ¹	Date Sounded	Depth to Groundwater (Feet) ¹	Groundwater Elevation (Feet) ²	Well Depth (Feet)
		12/02/96	17.59	134.37	27.88
		03/10/97	16.79	135.17	27.89
		06/12/97	17.49	134.47	27.90
		09/29/97	18.33	133.63	27.91
		12/01/97	17.36	134.60	27.90
		03/19/98	15.90	136.06	27.91
		05/28/98	16.34	135.62	27.90
		08/31/98	16.83	135.13	27.90
		12/08/98	17.37	134.59	27.91
		02/17/99	16.49	135.47	27.98
		06/10/99	17.63	134.33	24.76
		09/07/99	17.80	134.16	24.75
		12/13/99	17.82	134.14	24.73
		3/16/00	15.81	136.15	24.71
		6/12/00	16.64	135.32	24.70
		9/5/00	16.71	135.25	24.70
		11/13/00	17.24	134.72	24.70
		2/26/01	15.83	136.13	24.70
		6/12/01	16.80	135.16	24.70
		9/21/01	17.30	134.66	24.71
MW-5	148.68	05/18/93	15.72	132.96	-
		08/11/93	16.42	132.26	28.43
		11/05/93	16.92	131.76	28.43
		03/01/94	15.54	133.14	28.11
		06/02/94	16.19	132.49	28.12
		09/09/94	16.87	131.81	28.13
		12/20/94	15.87	132.84	28.10
		03/08/95	15.11	133.57	27.97
		06/14/95	15.69	132.99	27.97
		09/26/95	16.46	132.22	27.91
		12/27/95	15.91	132.77	27.89
		03/26/96	14.31	134.37	27.89
		06/05/96	15.43	133.25	27.88
		09/16/96	16.52	132.16	27.89
		12/02/96	16.05	132.63	27.88
		03/10/97	14.80	133.88	27.89
		06/12/97	15.95	132.78	27.90
		09/29/97	16.33	132.35	27.91
		12/01/97	15.48	133.20	27.90
		03/19/98	13.16	135.52	27.91
		05/28/98	14.04	134.64	27.90
		08/31/98	14.81	133.87	27.90
		12/08/98	15.75	132.93	27.91
		02/17/99	14.80	133.88	27.98
		06/10/99	15.54	133.14	24.76

Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet) ¹	Date Sounded	Depth to Groundwater (Feet) ¹	Groundwater Elevation (Feet) ²	Well Depth (Feet)
		09/07/99	16.01	132.67	24.75
		12/13/99	16.21	132.47	24.73
		3/16/00	14.35	134.33	29.60
		6/12/00	15.21	133.47	29.61
		9/5/00	15.80	132.88	29.60
		11/13/00	16.21	132.47	29.60
		2/26/01	14.71	133.97	29.61
		6/12/01	15.72	132.96	29.60
		9/21/01	16.21	132.47	29.60
MW-6	153.96	05/18/93	20.80	133.16	-
		08/11/93	21.64	132.32	31.15
		11/05/93	22.11	131.85	31.15
		03/01/94	20.80	133.16	29.96
		06/02/94	21.37	132.59	29.98
		09/09/94	22.05	131.91	29.96
		12/20/94	21.06	132.90	29.89
		03/08/95	20.29	133.67	29.67
		06/14/95	20.81	133.15	29.65
		09/26/95	21.62	132.34	29.66
		12/27/95	21.12	132.84	29.63
		03/26/96	19.50	134.46	29.60
		06/05/96	20.56	133.40	29.63
		09/16/96	21.70	132.26	29.65
		12/02/96	21.25	132.71	29.66
		03/10/97	20.16	133.80	29.64
		06/12/97	21.16	132.80	29.62
		09/29/97	21.51	132.45	29.62
		12/01/97	20.89	133.07	29.61
		03/19/98	18.71	135.25	29.60
		05/28/98	19.99	133.97	29.62
		08/31/98	20.81	133.15	29.63
		12/08/98	21.00	132.96	29.64
		02/17/99	19.54	134.42	29.63
		06/10/99	20.74	133.22	27.98
		09/07/99	21.23	132.73	27.98
		12/13/99	21.22	132.74	27.98
		3/16/00	18.79	135.17	27.99
		6/12/00	20.49	133.47	27.99
		9/5/00	20.95	133.01	27.98
		11/13/00	21.44	132.52	27.98
		2/26/01	19.86	134.10	27.99
		6/12/01	20.91	133.05	27.98
		9/21/01	21.22	132.74	27.99
MW-7	156.09	05/18/93	22.64	133.45	-

Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet) ¹	Date Sounded	Depth to Groundwater (Feet) ¹	Groundwater Elevation (Feet) ²	Well Depth (Feet)
		08/11/93	23.25	132.84	30.75
		11/05/93	23.93	132.16	30.75
		03/01/94	22.72	133.37	30.11
		06/02/94	23.22	132.87	30.12
		09/09/94	23.90	132.19	30.12
		12/20/94	22.98	133.11	30.10
		03/08/95	22.14	133.95	29.91
		06/14/95	22.61	133.48	29.91
		09/26/95	23.43	132.66	29.90
		12/27/95	23.01	133.08	29.90
		03/26/96	21.32	134.77	29.87
		06/05/96	22.37	133.72	29.91
		09/16/96	23.51	132.58	29.90
		12/02/96	23.08	133.01	29.91
		03/10/97	21.94	134.15	29.90
		06/12/97	22.96	133.13	29.88
		09/29/97	23.35	132.74	29.87
		12/01/97	22.68	133.41	29.88
		03/19/98	20.52	135.57	29.88
		05/28/98	21.76	134.33	29.88
		08/31/98	22.66	133.43	29.86
		12/08/98 ³			
MW-8	158.04	05/18/93	21.55	136.49	-
		08/11/93	22.43	135.61	34.82
		11/05/93	23.00	135.04	34.82
		03/01/94	22.05	135.99	34.04
		06/02/94	22.29	135.75	34.04
		09/09/94	22.99	135.05	34.04
		12/20/94	22.14	135.90	33.98
		03/08/95	21.25	136.79	34.48
		06/14/95	21.70	136.34	34.49
		09/26/95	22.29	135.75	34.40
		12/27/95	21.96	136.08	34.43
		03/26/96	20.48	137.56	34.42
		06/05/96	21.50	136.54	34.41
		09/16/96	22.38	135.66	34.43
		12/02/96	22.39	135.65	34.42
		03/10/97	20.89	137.16	34.43
		06/12/97	21.80	136.24	34.42
		09/29/97	22.81	135.23	34.40
		12/01/97	21.70	136.34	34.41
		03/19/98	19.35	138.69	34.42
		05/28/98	20.52	137.52	34.41
		08/31/98	21.40	136.64	34.40
		12/08/98 ³			

Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet) ¹	Date Sounded	Depth to Groundwater (Feet) ¹	Groundwater Elevation (Feet) ²	Well Depth (Feet)
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NOTES:

- 1 : Measurement and reference elevation taken from notch/mark on top north side of well casing.
- 2 : Elevation reference to mean sea level.
- Well Depth : Measured from top of casing to bottom of well.
- 3 : Well abandoned.

Table 3
Summary of Groundwater Analytical Results
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-2	9/21/01	23,000	NA	NA	4,600	75	1,200	2,300	450
	03/27/92	18,000	<50	<50	2,400	2,300	870	3,300	-
	06/04/92	14,000	<5,000	NA	1,900	1,700	580	2,300	-
	09/23/92	22,000	NA	NA	2,100	1,500	760	2,900	-
	11/12/92	29,000	NA	NA	2,400	860	540	3,500	-
	02/02/93	24,000	NA	NA	2,700	1,900	590	2,600	-
	05/07/93	19,000	NA	NA	1,800	1,300	460	2,600	-
	08/11/93	23,000	NA	NA	2,300	1,500	550	2,300	-
	11/05/93	30,000	NA	NA	3,100	2,900	860	3,700	-
	03/01/94	13,000	NA	NA	1,500	490	350	1,100	-
	06/02/94	12,000	NA	NA	2,000	790	460	1,300	-
	09/09/94	13,000	NA	NA	1,800	660	440	1,000	-
	12/20/94	16,000	NA	NA	2,300	1,000	650	1,900	-
	03/08/95	16,000	NA	NA	2,200	1,000	550	2,100	-
	06/14/95	NS	NS	NS	NS	NS	NS	NS	-
	09/26/95	18,000	NA	NA	2,500	1,000	770	2,700	-
	12/27/95	NS	NS	NS	NS	NS	NS	NS	-
	03/26/96	33,000	NA	NA	4,200	2,600	1,000	5,000	-
	06/05/96	NS	NS	NS	NS	NS	NS	NS	-
	09/16/96	19,000	NA	NA	2,600	490	560	2,000	940
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS
	03/10/97	23,000	NA	NA	3,700	870	650	3,000	1,400
	06/12/97	NS	NS	NS	NS	NS	NS	NS	NS
	09/29/97	30,000	NA	NA	4,900	880	990	3,800	1,400
	12/01/97	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/98	72,000	NA	NA	14,000	9,500	2,300	11,000	<1,500
	05/28/98	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/98	29,000	NA	NA	4,900	1,600	960	3,900	890
	12/08/98	NS	NS	NS	NS	NS	NS	NS	NS
	02/17/99	26,000	NA	NA	5,200	930	1,200	4,400	640
	06/10/99	NS	NS	NS	NS	NS	NS	NS	NS
	09/07/99	32,000	NA	NA	5,700	600	1200	3,500	1,100
12/13/99	NS	NS	NS	NS	NS	NS	NS	NS	
3/16/00	38,000	NA	NA	4,900	780	1,100	3,700	870	
6/12/00	NS	NS	NS	NS	NS	NS	NS	NS	
9/5/00	21,000	NA	NA	3,400	490	730	2,200	1,000	
11/13/00	NS	NS	NS	NS	NS	NS	NS	NS	
2/26/01	33,000	NA	NA	5,200	260	1,400	3,200	740	

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Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-3	6/12/01	NS	NS	NS	NS	NS	NS	NS	NS
	9/21/01	63,000	NA	NA	4,400	180	1,000	2,000	730
	03/27/92	160	<50	<50	9.2	4.8	10	23	-
	06/04/92	120	<50	NA	7.5	2.7	0.5	15	-
	09/23/92	220	NA	NA	8.3	4.3	62	19	-
	11/12/92	230	NA	NA	12	5.5	77	19	-
	02/02/93	86	NA	NA	2.4	0.71	27	6.2	-
	05/07/93	140	NA	NA	2.6	1.2	39	8.4	-
	08/11/93	490	NA	NA	15	8.1	14	37	-
	11/05/93	820	NA	NA	45	24	34	93	-
	03/01/94	410	NA	NA	7.4	2.7	56	10	-
	06/02/94	440	NA	NA	13	4.9	14	31	-
	09/09/94	620	NA	NA	12	4.8	97	20	-
	12/20/94	770	NA	NA	24	11	16	36	-
	03/08/95	300	NA	NA	6.1	0.97	4.8	7.5	-
	06/14/95	NS	NS	NS	NS	NS	NS	NS	-
	09/26/95	130	NA	NA	4.8	1.6	4.8	9.4	-
	12/27/95	NS	NS	NS	NS	NS	NS	NS	-
	03/26/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	-
	06/05/96	NS	NS	NS	NS	NS	NS	NS	-
	09/16/96	170	NA	NA	10	2.9	44	15	<5.0
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS
	03/10/97	84	NA	NA	2.3	<0.50	14	2.6	<5.0
	06/12/97	NS	NS	NS	NS	NS	NS	NS	NS
	09/29/97	740	NA	NA	61	9.8	42	61	<5.0
	12/01/97	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	05/28/98	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/98	320	NA	NA	6.7	1.0	10	9.3	3.4
	12/08/98	NS	NS	NS	NS	NS	NS	NS	NS
	02/17/99	310	NA	NA	<5.0	8.6	1.8	13	14
	06/10/99	NS	NS	NS	NS	NS	NS	NS	NS
	09/07/99	99	NA	NA	4.2	0.51	4.0	3.0	<5.0
12/13/99	NS	NS	NS	NS	NS	NS	NS	NS	
3/16/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0	
6/12/00	NS	NA	NA	NS	NS	NS	NS	NS	
9/5/00	240	NA	NA	3.0	0.53	9.6	4.0	<5.0	
11/13/00	NS	NA	NA	NS	NS	NS	NS	NS	

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Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	
MW-4	2/26/01	100	NA	NA	0.84	<0.50	3.5	1.7	0.84	
	6/12/01	NS	NS	NS	NS	NS	NS	NS	NS	
	8/27/01 ³	-	-	-	-	-	-	-	-	
	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-	
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-	
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-	
	03/01/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-	
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-	
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-	
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-	
	03/08/95	NS	NS	NS	NS	NS	NS	NS	-	
	06/14/95	NS	NS	NS	NS	NS	NS	NS	-	
	09/26/95	NS	NS	NS	NS	NS	NS	NS	-	
	12/27/95	NS	NS	NS	NS	NS	NS	NS	-	
	03/26/96	NS	NS	NS	NS	NS	NS	NS	-	
	06/05/96	NS	NS	NS	NS	NS	NS	NS	-	
	09/16/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/10/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06/12/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/29/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/01/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/28/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/08/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/17/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06/10/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/07/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/13/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	MW-5	3/16/00	NS	NS	NS	NS	NS	NS	NS	NS
		6/12/00	NS	NS	NS	NS	NS	NS	NS	NS
		9/5/00	NS	NS	NS	NS	NS	NS	NS	NS
11/13/00		NS	NS	NS	NS	NS	NS	NS	NS	
2/26/01		NS	NS	NS	NS	NS	NS	NS	NS	
6/12/01		NS	NS	NS	NS	NS	NS	NS	NS	
8/27/01 ³		-	-	-	-	-	-	-	-	
05/18/93		<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-	
08/11/93		<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-	

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Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	03/01/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
MW-5 (cont.)	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	03/08/95	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	06/14/95	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	09/26/95	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	-
	12/27/95	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	-
	03/26/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	15
	06/05/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	20
	09/16/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	12
	12/02/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	7.0
	03/10/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	7.2
	06/12/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	09/29/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	12/01/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	03/19/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	05/28/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	08/31/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	12/08/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	02/17/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	06/10/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	09/07/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	12/13/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	3/16/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	6/12/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
9/5/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
11/13/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
2/26/01	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-6	6/12/01	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	8/27/01 ³	-	-	-	-	-	-	-	-
	05/18/93	170	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	08/11/93	78	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	11/05/93	170	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	03/01/94	210	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	06/02/94	190	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	09/09/94	140	NA	NA	<0.5	<0.5	<0.5	<0.5	-
12/20/94	210	NA	NA	<0.5	<0.5	<0.5	<0.5	-	

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	03/08/95	180 ¹	NA	NA	<0.5	<0.5	<0.5	<0.5	
	06/14/95	220 ¹	NA	NA	<0.5	<0.5	<0.5	<0.5	
	09/26/95	110 ¹	NA	NA	<0.50	<0.50	<0.50	<0.50	
	12/27/95	130 ¹	NA	NA	<0.50	<0.50	<0.50	<0.50	
	03/08/95	100 ¹	NA	NA	<0.50	<0.50	<0.50	<0.50	
MW-6 (cont.)	06/05/96	100 ¹	NA	NA	<0.50	<0.50	<0.50	<0.50	430
	09/16/96	170	NA	NA	<0.50	<0.50	<0.50	<0.50	430
	12/02/96	160	NA	NA	<0.50	<0.50	<0.50	<0.50	160
	03/10/97	140	NA	NA	<0.50	<0.50	<0.50	<0.50	390
	06/12/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	330
	09/29/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	130
	12/01/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	200
	03/19/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	240
	05/28/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	290
	08/31/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	290
	12/08/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	230
	02/17/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	200
	06/10/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	290
	09/07/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	230
	12/13/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	180
	3/16/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	260
	6/12/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	160
	9/5/00	<50	NA	NA	<0.50	0.50	<0.50	0.81	170
	11/13/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	190
	2/26/01	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	130
6/12/01	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	96	
8/27/01 ³	-	-	-	-	-	-	-	-	
MW-7	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	03/01/94	60	NA	NA	<0.5	<0.5	<0.5	<0.5	
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	03/08/95	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	06/14/95	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	09/26/95	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	
	12/27/95	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	

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	03/08/95	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	
	06/05/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	20
	09/16/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	26
	12/02/96	140	NA	NA	<0.50	<0.50	<0.50	<0.50	140
	03/10/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	29
	06/12/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	28
	09/29/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	27
MW-7	12/01/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	29
(cont.)	03/19/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	6.0
	05/28/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	25
	08/31/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	20
	12/08/98 ²								
MW-8	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	03/01/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	03/08/95	NS	NS	NS	NS	NS	NS	NS	-
	06/14/95	NS	NS	NS	NS	NS	NS	NS	-
	09/26/95	NS	NS	NS	NS	NS	NS	NS	-
	12/27/95	NS	NS	NS	NS	NS	NS	NS	-
	03/08/95	NS	NS	NS	NS	NS	NS	NS	-
	06/05/96	NS	NS	NS	NS	NS	NS	NS	-
	09/16/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS
	03/10/97	NS	NS	NS	NS	NS	NS	NS	NS
	06/12/97	NS	NS	NS	NS	NS	NS	NS	NS
	09/29/97	NS	NS	NS	NS	NS	NS	NS	NS
	12/01/97	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/98	NS	NS	NS	NS	NS	NS	NS	NS
	05/28/98	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/98	NS	NS	NS	NS	NS	NS	NS	NS
	12/08/98 ²								

Notes:

<: Below indicated detection limit.

NS : Not sampled.

NA: Not Analyzed.

Table 3
Summary of Groundwater Analytical Results
Former Beacon Station # 12574 - Castro Valley, California

Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
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¹ : Product not typical gasoline.

² : Well abandoned

³ : As directed by Alameda County, Monitoring wells not sampled.

ATTACHMENT E

**GEOTRACKER ELECTRONIC DATA DELIVERABLE
CONFIRMATION SHEETS**

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

**Processing is complete. No errors were found!
Your file has been successfully submitted!**

<u>Submittal Type:</u>	GEO_WELL
<u>Submittal Title:</u>	1574-Q308
<u>Facility Global ID:</u>	T0600100155
<u>Facility Name:</u>	BEACON #12574
<u>File Name:</u>	GEO_WELL.zip
<u>Organization Name:</u>	Horizon Environmental Inc.
<u>Username:</u>	HORIZON
<u>IP Address:</u>	76.173.204.237
<u>Submittal Date/Time:</u>	8/23/2008 11:18:31 PM
<u>Confirmation Number:</u>	8384098887

Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

UPLOADING A GEO_REPORT FILE

YOUR DOCUMENT UPLOAD WAS SUCCESSFUL!

Facility Name: BEACON #12574
Global ID: T0600100155
Title: 12574-SAMR-Q108
Document Type: Monitoring Report - Semi-annual
Submittal Type: GEO_REPORT
Submittal Date/Time: 4/9/2008 10:20:32 AM
Confirmation Number: 2921284556

Click [here](#) to view the document.

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