



# HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

August 21, 2015

Mr. Jeffrey W. Hannel, Engineering Geologist  
Central Valley Regional Water Quality Control Board  
1685 E. Street, Fresno, California 93706

Subject: **Additional Site Assessment Report**  
Former Beacon Station No. 363  
1267 Oller Street, Mendota, California  
**Regional Board Case No. 5T10000011**

Mr. Hannel:

At the request of Ultramar Inc. (Ultramar), Horizon Environmental Inc. (Horizon) has prepared this report documenting the findings of an additional site assessment at the subject site (Site). The purpose of the additional assessment was to evaluate for the presence of separate phase product (SPH) and petroleum hydrocarbon impacts that may have originated from the Site. The Central Valley Regional Water Quality Control Board (CVRWQCB) reviewed and approved the Work Plan for Additional Site Assessment (Horizon, March 9, 2015) (Work Plan) and Revision to Work plan for Additional Site Assessment (Horizon, April 23, 2015) (Revision) in a letter dated April 29, 2015 (attachment A).

The currently operating Corner Store (Valero) station is located approximately 150 feet northwest of the corner of Oller Street and Belmont Avenue in the city of Mendota in Fresno County, as shown on the Site Location Map (Figure 1). Current Site features include a convenience store building in the east-central portion of the property, three gasoline underground storage tanks (USTs) in the southern portion of the Site, and four dispensers arranged on two pump islands between the USTs and the store building, as shown on the Site Area Map (Figure 2).

Restaurante de Maria occupies 1285 Oller Street (APN 013-162-09) southeast of the Site. Across Oller Street and to the south of the Site, an environmental investigation is ongoing at the Gonzales Site (GS) at 1278 Oller Street (APN 013-161-13). Three of the nine groundwater monitoring wells installed at the GS, wells MW-5, MW-8 and MW-9, are located across Oller Street on the 1285 Oller Street property. Concentrations of dissolved hydrocarbons found in these wells initiated the request for this work. The approximate well locations are depicted on Figure 2.

The Site background information, including removal of former USTs, soil and groundwater investigations, and Site remediation, was summarized in the attached CVRWQCB's Closure Summary letter dated September 29, 1998 (Attachment A). Between August 1986 and January 1988, floating product (SPH) was found in seven of the eight original Site groundwater monitoring wells. Seven other additional groundwater monitoring wells were installed as the water table level lowered over time. Approximately 2,000 gallons of floating product were pumped or bailed from the groundwater monitoring wells. A soil vapor

extraction system removed the hydrocarbon equivalent of approximately 31,000 gallons of gasoline.

### **Field Work**

Prior to performing fieldwork, Horizon retained All Well Abandonment (AWA) of Rancho Cordova (License C-57 #848359) to provide drilling and sampling services. Horizon requested and obtained from the property owner of 1285 Oller Street (APN 013-162-09), written approval (right-of-entry agreement) to perform investigation work at the Restaurante de Maria parking lot. Horizon and AWA obtained a City of Mendota business license and obtained Combination Permit No. 2015-59 for drilling and sampling activities within the city limits. These permits are included in Attachment A. Horizon updated the Site Health and Safety Plan (SHSP) to reflect the drilling, soil, and groundwater sampling activities and notified Underground Services Alert (USA) to mark the locations of known underground utilities. One week in advance of the field work, Horizon notified the 1285 Oller Street property owner, and gave 24-hours advance notification to the City of Mendota Public Works Department staff.

Horizon was onsite on July 15 and 16, 2015, to witness AWA advance soil borings HB-1, HB-2, and HB-3 at the locations shown on Figure 2. Mr. Jeff Hannel of RWQCB visited the site on July 16, 2015. The borings were advanced vertically with 8-inch diameter hollow-stem augers and sampled with a split-spoon sampler every 5-foot interval to a total depth of approximately 60 feet below surface grade (bsg), in accordance with the Work Plan and Horizon's Field Methods and Procedures included in Attachment B. The soil samples were field-screened for hydrocarbon vapors using a portable photo-ionizing detector (PID). The sediments from each boring were classified using the Unified Soil Classification System (USCS) and recorded on the Boring Logs (Attachment B). Groundwater was encountered in each boring at a depth of approximately 52 feet bsg. A dedicated 10-foot length of one-inch diameter PVC pipe, perforated with 0.010-inch slots, was placed inside each boring between the depths of 50 to 60 feet bsg. After allowing groundwater levels to equilibrate for approximately 30 minutes, a 1/2-inch diameter dedicated plastic bailer was lowered inside the PVC screened pipe and visually inspected for the presence of SPH. Groundwater samples were collected from each boring via dedicated plastic bailers. After completion of sampling activities, the borings were backfilled with neat cement grout, as per City of Mendota guidelines, and under partial inspection of a City of Mendota Public Works representative.

The soil and groundwater samples were submitted under chain-of-custody documentation to ESC Lab Sciences (ESC), a California Department of Health Services-certified analytical laboratory located in Mt. Juliet, Tennessee (Certification No. 01157CA). The selected soil samples were analyzed for Diesel-range (C12-C22) organic hydrocarbons (TPHd) and for Gasoline-range (C5-C12) organic hydrocarbons (TPHg) by Environmental Protection Agency (EPA) Method 8015, and for the volatile aromatic compounds benzene, toluene, ethylbenzene, and xylenes (BTEX), and the fuel oxygenate methyl tert-butyl ether (MTBE) by EPA Method 8260B.

Analytical laboratory results for the soil and groundwater samples from the three borings are summarized in Table 1 and Table 2, respectively. Copies of the soil and groundwater

analytical reports are contained in Attachment C. Investigation-derived waste generated during the drilling and sampling activities was managed in conformance with Horizon's Field Methods and Procedures. Copies of the waste disposal manifests are included as Attachment D.

### **Results**

Current soil investigation data indicate that soil beneath the Site generally consists of poorly graded sand (SP) to silt (ML) sediments to a depth of approximately 11 to 15 feet bsg, underlain by fine-grained sediments of clay (CL/CH) with discontinued lenses of sand to a depth of approximately 27 to 30 feet bsg. Below 30 feet soils are predominantly silty to poorly-graded sand (SM/SP) to approximately 60 feet bsg, the maximum depth explored during this event.

Groundwater was encountered and measured at a depth of approximately 52 feet in the three borings. According to ASR Engineering, Inc. (ARS) of Fresno, California, currently monitoring the groundwater beneath the Gonzales Site, the depth to groundwater was approximately 53 to 54 feet bsg in December 2014. The groundwater flow direction beneath the Gonzales Site and historically was reported to be towards the northeast.

Soil samples analyzed were at depths with the highest PID field measurements, the first sample above the first encountered groundwater, and the soil sample at the bottom of the boring. Additional soil samples were analyzed from boring HB-1 for bracketing of elevated PID readings at 25 feet bsg. Concentrations of diesel- and gasoline-range hydrocarbons were reported in the vadose zone at a depth of 25 feet in all three borings, and at a depth of 50 feet bsg, just above groundwater in boring HB-3, located to the southeast of the Site property. The highest TPHd and TPHg soil concentrations were 90 parts per million (ppm) of TPHd and 470 ppm of TPHg, respectively, collected at a depth of 25 feet from boring HB-1, which is located approximately 10 feet northeast of a former Site satellite dispenser island shown on the historical maps in Attachment E. No Benzene was detected in any soil samples analyzed.

Visual inspection of groundwater and the analytical groundwater data from this investigation indicate that SPH was not present at the locations and depths explored. Groundwater analytical concentrations reported for TPHg and TPHd up to 10,000 ppb of TPHg and 2,800 ppb of TPHd, respectively, and Benzene at 160 ppb at boring location HB-3. Borings HB-1 and HB-2 reported similar but lower concentrations (Table 2).

### **Conclusions**

Based on the results of this additional site assessment, concentrations of TPHd, TPHg, and BTEX are present in the subsurface soil and groundwater, however, no evidence of SPH was found. Prior to closure in 1998, Ultramar Site monitoring well MW-15 (total depth 75 feet bsg) located on the southeastern property boundary had reported no detectable for TPH and Benzene in consecutive quarters. Remediation performed at the Site between 1986 and 1996 included pumping, bailing, and operation of a soil vapor extraction (SVE) system that effectively removed the SPH with a reduction in dissolved concentrations acceptable for closure in an area with groundwater of no beneficial use that was degraded. Historical data

collected by various consultants at the Site between 1986 and 1993 indicated that the predominant groundwater flow direction during that time was towards the north to northeast to east beneath the Site, which is similar to data collected at the Gonzales site since 2010, towards Oller Street and the [Beacon] Site. Historical maps and tables demonstrating these groundwater flow directions are included in Attachment E. Furthermore, the dissolved concentrations reported in groundwater from borings HB-1, HB-2 and HB-3 are similar to the dissolved concentrations reported beneath the Gonzales site and areas downgradient across Oller Street from the Gonzales site.

Therefore, it is Horizon's conclusion that the dissolved concentration of hydrocarbons in groundwater reported in HB-2 and HB-3 during this investigation is likely from the Gonzales site rather than the [Beacon] Site historical release. Concentrations of dissolved hydrocarbons detected in groundwater at location HB-1 may be from the Site historical release or the Gonzales release, however, concentrations present and the poor quality of groundwater do not warrant further work in this area. Therefore, we recommend that no additional investigation be required of Ultramar for this site.

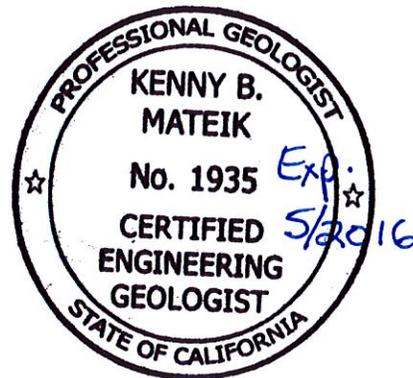
If you have any questions, please contact Horizon at (916) 939-2170.

Sincerely,

**HORIZON ENVIRONMENTAL INC.**

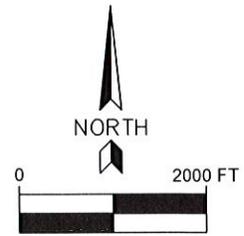
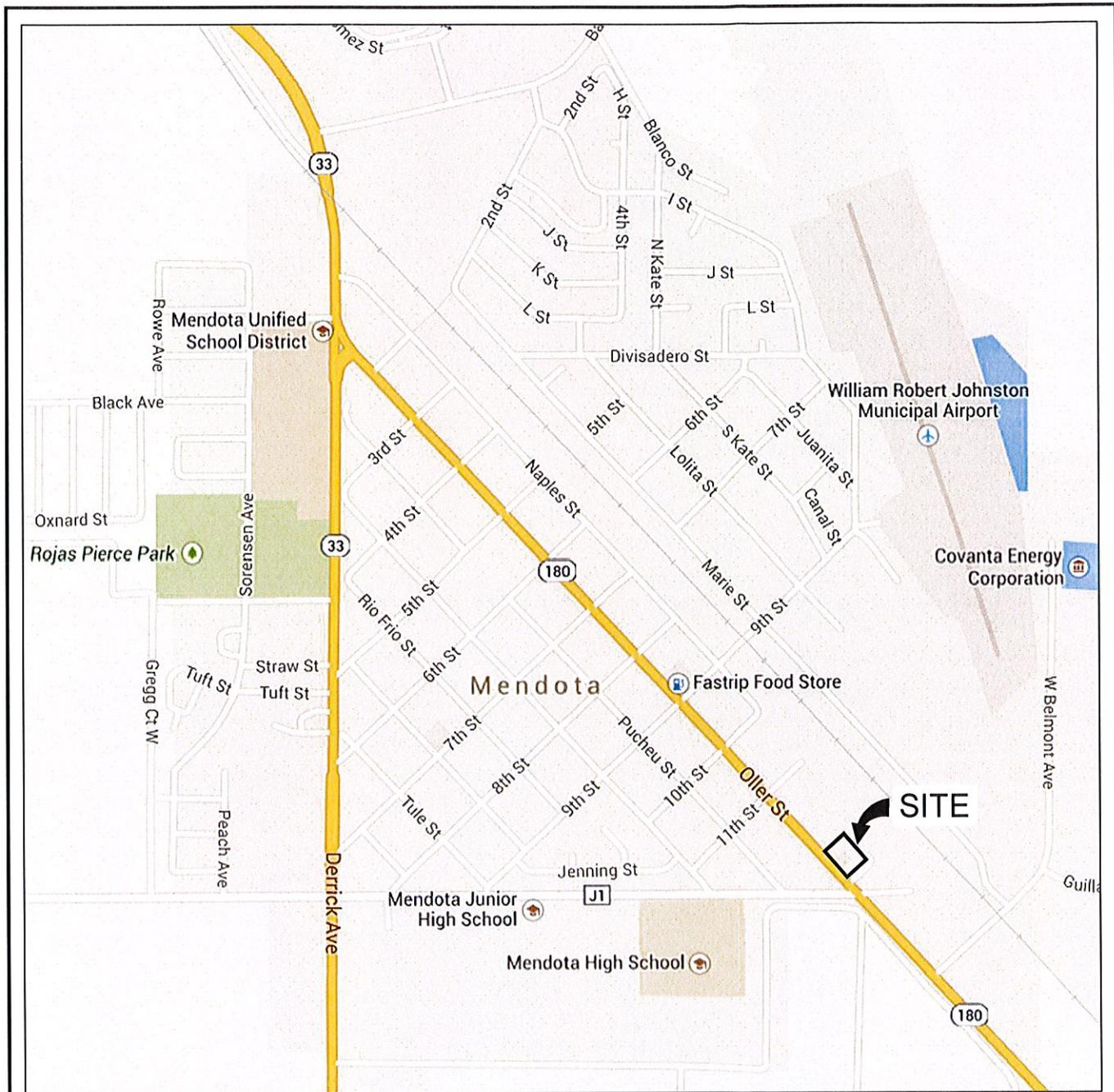
Gary D Barker  
Senior Project Manager

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



- Attachments: Figure 1: Site Vicinity Map  
Figure 2: Site Plan  
Table 1: Soil Analytical Data  
Table 2: Groundwater Analytical Data  
Attachment A: Central Valley RWQCB Correspondence  
Central Valley RWQCB Closure Letter  
Permits and Right of Entry  
Attachment B: Horizon Field Methods and Procedures  
Boring Logs  
Attachment C: Laboratory Analytical Reports  
Attachment D: Waste Disposal Manifests  
Attachment E: Historical Data and Maps

c: Mr. Kent Swanson, CST Brands, Inc.



MAP DATA 2015 GOOGLE



**HORIZON ENVIRONMENTAL INC.**

Project Number: 1363  
 Prepared By: E. Kruck  
 Reviewed By: G. Barker

Drawn By: C. Bechtell  
 Date: 02/23/15  
 Revised Date:

**SITE LOCATION MAP**

FORMER ULTRAMAR/BEACON STA. 363  
 1267 OLLER STREET (HIGHWAY 180)  
 MENDOTA, CALIFORNIA

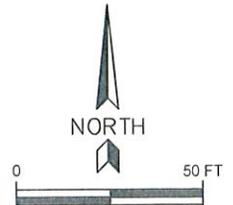
**FIGURE**

**1**



LEGEND:

- HB-3 BORING LOCATION
- ⊕ MW-8 GONZALES SITE MONITORING WELLS



**HORIZON ENVIRONMENTAL INC.**

Project Number: 1363.11  
Prepared By: E. Kruck  
Reviewed By: G. Barker

Drawn By: C. Bechtell  
Date: 02/23/15  
Revised Date: 02/26/15

**SITE AREA MAP**

FORMER ULTRAMAR/BEACON STA. 363  
1267 OLLER STREET (HIGHWAY 180)  
MENDOTA, CALIFORNIA

**FIGURE**

**2**

**Table 1 - Soil Analytical Data  
Former Beacon Station No. 3363  
Mendota, California**

Sample Number	Date	Depth (bsg)	TPHD (ppm)	TPHg (ppm)	B (ppm)	T (ppm)	E (ppm)	X (ppm)	MTBE (ppm)	LEAD (ppm)
HB1-20	07/15/15	20 feet	< 5.0	6.0	<0.0063	<0.031	<0.0063	<0.019	<0.0063	NA
HB1-25	07/15/15	25 feet	90	470	<0.012	<0.60	1.4	9.1	<0.12	NA
HB1-30	07/15/15	30 feet	< 5.3	0.67	<0.0067	<0.033	<0.0067	<0.020	<0.0067	NA
HB1-50	07/15/15	50 feet	< 4.8	<0.60	<0.0060	<0.030	<0.0060	<0.018	<0.0060	NA
HB1-60	07/15/15	60 feet	< 4.8	<0.60	<0.0060	<0.030	<0.0060	<0.018	<0.0060	NA
HB2-25	07/16/15	25 feet	54	270	<0.28	<1.4	0.85	5.1	<0.28	NA
HB2-50	07/16/15	50 feet	< 4.8	<0.60	<0.0060	<0.030	<0.0060	<0.018	<0.0060	NA
HB2-60	07/16/15	60 feet	< 5.3	<0.66	<0.0066	<0.033	<0.0066	<0.020	<0.0066	NA
HB3-25	07/15/15	25 feet	28	64	<0.032	<0.16	0.15	0.15	<0.032	NA
HB3-50	07/15/15	50 feet	30	320	<0.030	<0.15	0.29	<0.090	<0.030	NA
HB3-60	07/15/15	60 feet	<5.0	<0.62	<0.0062	<0.031	<0.0062	<0.019	<0.0062	NA
SP-1 (A,B,C,D)	07/16/15	N/A	<23	1.4	<0.0057	<0.028	<0.0057	<0.017	<0.0057	6.1

Notes:

TPHD = total petroleum hydrocarbons as diesel

TPHg = total petroleum hydrocarbons as gasoline

B = benzene

T = toluene

E = ethylbenzene

X = xylenes

MTBE = Methyl tert-butyl ether

bsg = depth below surface grade

ppm = parts per million

NA = Not analyzed

**Table 2 - Groundwater Analytical Data  
Former Beacon Station No. 3363  
Mendota, California**

Sample Number	Date	TPHd (ppb)	TPHg (ppb)	B			T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
				(ppb)	(ppb)	(ppb)				
HB-1	07/15/15	1100	4800	4.0	7.5	42	160	<0.37		
HB-2	07/16/15	830	1500	20	33	91	74	1.8		
HB-3	07/15/15	2800	10000	160	<7.8	1400	1100	<3.7		

**Notes:**

TPHD = total petroleum hydrocarbons as diesel      ppb = parts per billion

TPHg = total petroleum hydrocarbons as gasoline

B = benzene

T = toluene

E = ethylbenzene

X = xylenes

MTBE = Methyl tert-butyl ether

## **ATTACHMENT A**

**Central Valley Regional Water Quality Control Board**

29 April 2015

Kent Swanson  
Environmental Specialist  
CST Brands  
5590 B Havana Street  
Denver, Colorado 80239

1363.11

**UNDERGROUND STORAGE TANK RELEASE, BEACON STATION 363, 1267 OLLER STREET, MENDOTA, FRESNO COUNTY, RB CASE 5T10000011**

The consultant, Horizon Environmental Inc. submitted the *Work Plan for Additional Site Assessment* (Work Plan) dated 9 March 2015, and an email *Revision to Work Plan for Additional Site Assessment* (Revision) dated 23 April 2015. The Work Plan and Revision were submitted in response to the Central Valley Regional Water Quality Control Board (Central Valley Water Board) letter of 16 January 2015. The Central Valley Water Board letter noted that previously floating product was present in monitoring wells located along the southeastern property line of the facility (Site). Floating product was also measured near the Site's northeastern fence. Central Valley Water Board staff determined that the Site case file contains no documentation to suggest that the extent of the floating product or the dissolved phase plume was ever defined offsite.

The Central Valley Water Board letter requested that if there is documentation, data, or investigation reports that define the extent of the offsite groundwater impacts, such as floating product or dissolved phase constituents, to please submit them. The letter further stated that if no such documentation exists, the Central Valley Water Board staff will reopen the case and a work plan to define the offsite extent (northeast, and east/southeast) of the plume needs to be submitted.

The submitted Work Plan and Revision propose to drill two soil borings near the fence along the northeast Site boundary, and one soil boring near the southeast Site boundary as depicted in the email Revision. The borings will be drilled to a depth of 45 feet below ground surface (bgs), or until groundwater is encountered. Soil samples will be collected at five-foot intervals. A hollow stem auger drill rig will be used, and a groundwater sample will be collected from each boring. Selected soil samples and the groundwater samples will be submitted for laboratory analyses.

**Comments**

Since no documentation has been submitted that defines the extent of offsite groundwater impacts, the case has been reopened.

Central Valley Water Board staff concurs with the scope of work proposed in the Work Plan and Revision.

Kent Swanson  
CST Brands  
Beacon Station 363  
Mendota, Fresno County

- 2 -

29 April 2015

**Prior to 3 August 2015, please submit a report of the results of the investigation. Please notify Central Valley Water Board staff at least two weeks prior to performing the field work so that staff can be present to obtain duplicate groundwater samples.**

All submittals need to be uploaded to the GeoTracker database. Paper copies are not normally required, but Central Valley Water Board staff may request copies of a report, data tables, or maps and figures, in certain instances.

Should you have questions regarding this matter, please contact Jeff Hannel at (559) 445-6193 or by email at [jhannel@waterboards.ca.gov](mailto:jhannel@waterboards.ca.gov).

JEFFREY W. HANNEL  
Engineering Geologist  
PG 5640, CHG 649

SHELTON R. GRAY  
Senior Engineering Geologist

cc: Harry Yee & Vince Mendes, FCDEH, Fresno  
Lois Arlene & Rowena Applewhite, Fresno  
Tony Lopez, Mendota  
Saboor Rahim, ASR, Fresno  
Kenny Mateik, Horizon, El Dorado Hills



Peter M. Rooney  
Secretary for  
Environmental  
Protection

# California Regional Water Quality Control Board

## Central Valley Region



Ed J. Schnabel  
Chair

Fresno Branch Office  
Internet Address: <http://www.swrcb.ca.gov/~rwqcb5/home.html>  
3614 East Ashlan Avenue, Fresno, California 93726  
Phone (209) 445-5116 • FAX (209) 445-5910

1363.33

29 September 1998

Mr. Joseph A. Aldridge  
Ultramar, Inc.  
P.O. Box 466  
Hanford, CA 93232-0466

### CASE CLOSURE - BEACON STATION NO 363, 1267 OLLER STREET, MENDOTA, FRESNO COUNTY

Dear Mr. Joseph A. Aldridge,

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on the information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

The groundwater monitoring wells that were used to investigate the release are no longer required. Accordingly, unless you choose to maintain the monitoring wells for future use, they must be properly abandoned in accordance with Fresno County Environmental Health Department requirements.

If you have any questions regarding this matter, please telephone Ray Bruun at (209) 445-5504.

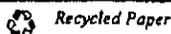
Sincerely,

BERT E. VAN VORIS  
Supervising Engineer  
RCE No. 24105

Enclosure

cc: Ms. Pam Rarick, SWRCB, UST Cleanup Fund Program, Sacramento  
Mr. Jim Armstrong, Fresno County Environmental Health System, Fresno  
Mr. Gary D. Barker, Horizon Environmental, Inc., El Dorado Hills ✓

*California Environmental Protection Agency*



072198A CLS



**California Regional Water Quality Control Board  
Central Valley Region**



Peter M. Rooney  
Secretary for  
Environmental  
Protection

Fresno Branch Office  
Internet Address: <http://www.swrcb.ca.gov/~rwqcb5/home.html>  
3614 East Ashlan Avenue, Fresno, California 93726  
Phone (209) 445-5116 • FAX (209) 445-5910

Ed J. Schnabel  
Chair

TO: John Noonan  
Senior Engineer

FROM: Ray Bruun  
Associate Engineer

DATE: 29 September 1998

SIGNATURE: 

SUBJECT: **CLOSURE SUMMARY FOR BEACON STATION NO 363, 1267 OLLER STREET,  
MENDOTA, FRESNO COUNTY**

**Background**

*UST Removal* - Four underground storage tanks (gasoline and diesel) were removed from the site in May 1986. The tanks were situated in two clusters of two tanks each: a 10,000-gallon diesel tank and a 6,000-gallon gasoline tank, in the north half of the property and two 10,000-gallon gasoline tanks in the south. Holes were noted in the three gasoline tanks; each had previously failed leak tests. New double-walled tanks have since been installed; piping and dispensers have also been upgraded.

*Soil Investigation* - About 17 soil borings were drilled on the property during the investigation phase. Depths drilled ranged from 30 to 77 feet below the ground surface (bgs). Groundwater was initially 16 feet bgs but later dropped to almost 65 feet bgs, necessitating deeper borings. Most of the contamination was near the former gasoline tanks to the south. At one point, over 11 feet of free product accumulated in a monitoring well.

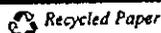
In 1988 and again in 1989 soil gas surveys were completed. The initial survey included off-site locations. A follow-up survey and vapor extraction test were conducted on-site to gather more detailed information for feasibility and design of a planned soil vapor extraction (SVE) system.

*Groundwater Investigation* - Fifteen monitoring wells have been installed in several phases. The first eight wells were built in 1986, then as the water table lowered four more wells (1989), and as it lowered even further, an additional three wells were put in (1993). One of the original wells (MW-2) was destroyed in 1993. All are on the property.

Free floating product was found in seven of the eight original monitoring wells (not in MW-1). Product was sometimes greater than 10 feet thick within well casings. From August 1986 to January 1988, groundwater samples were not taken due to the presence of free product in the wells. On 11 February 1988, groundwater samples were collected from four wells without free product. Relatively high concentrations of gasoline related compounds (e.g., TPH-g at 143,000 µg/l and benzene at 20,200 µg/l) were detected.

Groundwater was about 35 feet bgs and flowed northerly in May 1998. Flow has generally been to the north, ranging from northwest to east. Groundwater flow measurements made after January 1991 may

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have been influenced by the SVE system. As mentioned earlier, depth to groundwater has varied considerably over the years, from 16 to 65 feet bgs.

Currently four wells are screened across the water table. Seven wells are dry and three have submerged screens. Three of the four wells screened across the water table have been nondetect for all constituents tested over the past year-and-a-half. The detection limits are: TPH-g < 50 µg/l; MTBE < 5 µg/l; BTEX < 0.5 µg/l. MW-10 has had comparatively low detections of TPH-g and BTX during the last three quarters of monitoring: TPH-g < 200 µg/l; B < 30 µg/l; T < 20 µg/l; X < 15 µg/l. The submerged wells have been nondetect (see previously listed detection limits) over the last three monitoring rounds. One well with submerged screen, MW-13, has not been sampled since August 1996; it could not be located.

*Remediation* - At least two thousand gallons of free floating product have been pumped or bailed from groundwater monitoring wells. A soil vapor extraction (SVE) system, operated from January 1991 to December 1996, removed about 192,000 pounds of hydrocarbons, or about 31,000 gallons of gasoline. An undetermined amount of soil-bound gasoline was removed when the tank pits were excavated to groundwater in 1986.

*Request for Closure* - Closure was requested in a 31 December 1996 letter report from Ultramar. Our 29 May 1997 response letter explained that further monitoring was needed before closure could be revisited. The requested monitoring was completed and on 24 June 1998, Ultramar again asked that we close the site.

*Protection of Beneficial Uses* - The quality of first encountered groundwater is poor. It is high in sulfates and contains about 5,000 mg/l total dissolved solids (TDS). To my knowledge, the upper portion of first groundwater in the vicinity of the site, that which was and still is affected to some extent, is not being used for any purpose.

The deeper regions of the aquifer within the City of Mendota are being used. The realized beneficial uses include Municipal and Domestic Supply (MUN), Agricultural Supply (AGR), Industrial Service Supply (IND). In addition to the above, the *Water Quality Control Plan for the Tulare Lake Basin - Second Edition* (Basin Plan) identifies the following potential beneficial uses of groundwater: Industrial Process Supply (PRO), Water Contact Recreation (REC-I), and Wildlife Habitat (WILD). The Basin Plan states that "[g]round waters shall not contain chemical constituents in concentrations that adversely affect beneficial uses."

At present, the remaining pollution is restricted to a zone of poor quality (saline) groundwater within a few feet of the groundwater surface near MW-10. Given the present regional practice of installing deeper well screens to avoid this saline groundwater, one could reasonably conclude that realization of beneficial uses of saline groundwater at the site will not happen in the near future. While the potential beneficial uses outlined in the Basin Plan may be realized at some point, I expect for the following reasons that pollutant levels in the aquifer will drop below regulatory levels (e.g., 1 µg/l for benzene) before the saline groundwater is utilized: 1) extensive remediation has occurred resulting in a markedly reduced groundwater plume, both in concentration and size; and 2) there is no reason to drill a water supply well at the site because it is hooked up to the municipal water supply system.

*Threat to Human Health and the Environment* - The site has been intensively remediated and the mass of pollutants greatly reduced. The installation has been upgraded to comply with the December 1998

*California Environmental Protection Agency*

deadline for replacing or retrofitting the USTs. Beneficial uses are being protected. I am currently unaware of any actual or potential risks to human health or the environment.

#### **Summary and Conclusions**

- The soil and groundwater investigations are complete.
- Practicable remediation has been done. Impacted soils were excavated to groundwater; free floating product was removed; and a soil vapor extraction system was operated to further reduce pollutant mass.
- Groundwater impacts resulting from the release have declined to almost nondetectable levels and are expected to reach full beneficial use protective levels prior to utilization of the groundwater resource.
- MTBE was tested for and was not found.
- The site does not pose a present or future threat to water quality or to human health and the environment.

#### **Recommendation**

The site should be closed.

**City of Mendota**  
**Building Inspection Division**  
643 Quince Street  
Mendota, CA 93640  
559-655-3291 Ext. 104

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**Combination Permit**

**Permit Number:** 2015-59

**Job Site Address:** 1267 Oller St.

**Parcel #:** 013-162-08 **Lot #:**

**UBC Code Year:** 2013

**Date Applied:** 6/23/2015

**Occupancy:** C-3

**Issue Date:** 7/6/2015

**Construction Type:** Grading

**Expiration Date:** 1/2/2016

**Valuation:** \$6,000.00

**Project Desc:** (3) VERTICAL BORING FOR COLLECTING SOIL AND WATER SAMPLES

**Comments:** APPROVED LOCATION ONLY

**Nearest Cross Streets:**

---

**OWNER**

VALERO CALIFORNIA RETAIL COMPANY  
1 VALERO WAY,  
SAN ANTONIO, TX 78249  
1-916-363-9355

**CONTRACTOR**

ALL WELL ABANDONMENT  
3369 FITZGERALD ROAD  
RANCHO CORDOVA 95742  
916) 363-9355  
CSLB# 848359

---

**FEE DESCRIPTON**

Building Permit Fee	\$65.00	Develop Fees	Smot Fee
Water Meter	0	Plan Check Fee	
Christy Meter Box	0	Plan Check Deposit	Total Amount Due
			<b>\$65.00</b>

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**Inspection request must be called in 24 hours in advance; no later than 5:00 PM to 559 655-3425.**  
**Inspecciones are done Monday thru Friday. Inspecciones deben de ser solicitadas**  
**24 horas con anticipo; no mas tardar de las 5:00 PM al 559 655-3425.**

In accordance with Health & Safety Code Sections 19825, all required declarations attached to this form have been signed and dated by the permittee.

Approved By: \_\_\_\_\_



Verified By: \_\_\_\_\_

# Ultramar, Inc.

---

May 5, 2015

CERTIFIED MAIL

Mr. Felipe and Mrs. Eva Gutierrez  
14306 E Street  
Kerman, CA 93630

**RE: Right of Entry (ROE) Agreement ("Agreement")  
For Access on Property  
1285 Oller Street, Mendota, CA**

**South from Former Beacon Station No. 363  
1267 Oller Street, Mendota, CA 93640  
Central Valley RWQCB Case No. 5T10000011**

Mr. and Mrs. Gutierrez:

The California Regional Water Quality Control Board – Central Valley Region (Central Valley RWQCB) has required Ultramar Inc. ("Ultramar") to conduct an offsite groundwater assessment related to the past operation of Former Beacon Station No. 363 ("Site"), which was located at 1267 Oller Street in Mendota, California. This former gas station was located to the north of your property at 1285 Oller Street ("Property") and is now an operating Valero Station.

Ultramar requests permission, at its sole cost and expense, to advance and sample one exploratory boring, HB-3, (the "Work") on the Property, and to enter through your property to access other work areas on the adjacent property located behind (to the east) of the Site station building, as shown on the attached Site Plan as Exhibit A, and incorporated herein by reference.

NOW, THEREFORE, for and in consideration of the mutual covenants set forth herein, and other good and valuable consideration the receipt and sufficiency of which are hereby acknowledged, Mr. Felipe and Mrs. Eva Gutierrez ("Owner") and Ultramar agree as follows:

1. Owner warrants that they are the owner or lessee of the Property, or are an authorized representative of the Owner, and has the authority to grant permission for the Work to be conducted pursuant to this Agreement. Owner will permit Ultramar, its

employees, representatives, or agents to enter upon the Property and conduct the Work and remove equipment, materials, and facilities to be used in connection with the Work.

2. It is understood by the parties that such Work, as may be conducted pursuant to this Agreement, shall be under the sole jurisdiction of the State and/or County regulating agencies (Agencies), and that the Agencies shall have the sole discretion to determine the completeness of any work performed. This Agreement shall terminate when the Work is completed to the satisfaction of the Agencies. By conducting the Work, Ultramar in no way admits or acknowledges liability for the presence, if any, of petroleum hydrocarbons or any other contaminants on or under the Property.

3. Ultramar, or its Consultant, shall promptly remove from the Property, at Ultramar's sole expense, all waste material (such as drill cuttings and debris) generated by the activities, or the activities of the consultant's agents, employees or subcontractors in the exercise of their rights under this Agreement.

4. Ultramar, and its Consultant, shall restore any real and personal property, landscaping, fixtures, or equipment on the Property that is disturbed or damaged by Ultramar, or its Consultant, or its Consultant's agents, employees or subcontractors, in performing the tasks described in this Agreement to the condition in which such Property existed at the time Ultramar or its Consultant, first entered upon the Property.

5. Ultramar, or its Consultant, will be provided access to the Property to perform the Work at such time that will not unreasonably interfere with activities on the Property. Owner agrees not to prohibit, interfere with, or obstruct the Work or knowingly permit others to do so. Ultramar, or its Consultant, shall provide the Owner with at least seventy-two (72) hours notice of its intention to enter onto the Property for the purposes of conducting any of the Work.

6. Upon the completion of sampling, the ground surface will be restored to resemble the surrounding land surface.

7. Ultramar agrees to comply with all Federal, State, and Local Laws, rules, orders and regulations pertaining to the operations and activities permitted in this Agreement.

8. This Agreement contains the entire agreement and understanding concerning the subject matter hereof between the

parties hereto, and shall supersede any and all prior negotiations, agreements, and/or proposed agreements, whether written or oral, concerning the subject matter hereof. Each such party recognizes that, except as expressly specified herein, no other party, or agent of such other party, has made any promise, representation, warranty, whether express or implied, concerning the subject matter hereof.

9. This agreement shall be governed and interpreted in accordance with the laws of the state of California.

If the previously described conditions meet with your approval, please sign and return both signed copies of this Agreement to Ultramar's Consultant, Horizon Environmental in El Dorado Hills, California within 30 days, so that Horizon can forward the signed copies to Ultramar to sign. Horizon will then return a signed copy of the ROE to you, and will arrange for the exploratory borings work to be permitted and scheduled.

Ultramar Inc., a Nevada Corporation

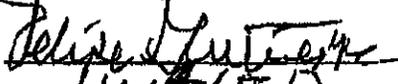
By:

  
Mr. Kent Swanson

Title: Lead Environmental Specialist

AGREED AND ACCEPTED:

By:

  
Title: OWNER

Date: 6-2-15

Phone: 559-360-7465

Mail To:

Horizon Environmental Inc.  
4970 Windplay Drive, Suite #5  
El Dorado Hills, CA 95762

## **ATTACHMENT B**

# **HORIZON ENVIRONMENTAL INC. FIELD METHODS AND PROCEDURES**

The following section describes field procedures that will be completed by Horizon Environmental Inc. (Horizon) personnel in performance of this project.

## **1.0 HEALTH AND SAFETY PLAN**

Field work performed by Horizon and subcontractors at the Site will be conducted according to guidelines established in a Site Health and Safety Plan (SHSP). The SHSP is a document that describes the hazards that may be encountered in the field and specifies protective equipment, work procedures, and emergency information. A copy of the SHSP will be at the Site and available for reference by appropriate parties during work at the Site.

## **2.0 LOCATING UNDERGROUND UTILITIES**

Prior to commencement of work at the Site, the location of underground utilities will be researched with the assistance of Underground Service Alert (USA). USA will contact the owners of the various utilities in the vicinity of the Site to have the utility owners mark the locations of their underground utilities. Work associated with the borings and monitoring well installations will be preceded by manual hand-augering to avoid contact with underground utilities.

## **3.0 SOIL BORING AND SOIL SAMPLING PROTOCOL**

Soil borings and soil sampling will be performed under the supervision of a Horizon geologist. The soil borings will be advanced using a truck-mounted hollow-stem auger drilling rig. To reduce the chances of cross-contamination between boreholes, downhole drilling equipment and sampling equipment will be cleaned between borings. To reduce cross-contamination between samples, the split-barrel sampler will be washed in a soap solution and double-rinsed between each sampling event.

Soil sampling will be conducted in accordance with ASTM 1586-84. Using this procedure, a split-barrel sampler (California-type sampler) lined with brass sample sleeves will be driven into the soil at approximately 5-foot intervals by a 140-pound weight falling 30 inches. The number of blow counts required to advance the sample 18 inches will be recorded at each sample interval. Generally, the bottom soil sample will be sealed in a brass or steel sleeve and stored at approximately 4°C for transport to the laboratory. The soil samples will be sealed in the sleeves using Teflon sheets and plastic caps; labeled; and promptly placed in iced storage.

Generally, the upper portions of each soil sample will be extruded from the sleeves, placed in a plastic bag, and sealed for later screening with a portable photo-ionization detector (PID). Another portion of the soil sample will be used for classification and description. After the portion of the soil sample is placed in the plastic bag, it will be allowed to warm, inducing volatilization of petroleum hydrocarbon vapors. The headspace vapors will then be screened with the PID. The highest observed reading will be recorded on the boring logs.

## **Horizon Field Methods and Procedures**

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### **4.0 GROUNDWATER DEPTH EVALUATION**

Depth to groundwater will be measured with an electronic water level indicator to the nearest 0.1-foot below surface grade. The tip of the probe will be inspected to evaluate whether liquid-phase hydrocarbons are present.

### **5.0 GROUNDWATER GRAB SAMPLING**

Groundwater grab samples will be collected utilizing either a clean disposable bailer from the inside of the hollow-stem augers, or alternately, a steel bailer washed in a soap solution and double-rinsed between each sampling event. Generally, a temporary PVC pipe fitted with a slotted screen interval, or a Hydropunch tool, lowered inside of the hollow-stem augers is used for the collection of groundwater grab samples. The groundwater samples will be transferred from the sampling tools to laboratory-prepared vials with a minimum of contact with air. Sample vials will be labeled to identify the job number, sample date, time of sample collection, and a sample number unique to that sample, and packed in an iced cooler for transport. Samples will be transported with a chain-of-custody form to a State-certified laboratory for the analyses requested.

### **6.0 BOREHOLE SEALING**

Upon termination of drilling and sampling activity, each borehole will be sealed following the applicable local or State standards and completed to match the existing surrounding surface. Generally, each borehole will be backfilled with neat cement grout placed into the open borehole via a tremie pipe. The grout level will be placed up to within one foot of the surface and topped off until stabilized. The upper foot of each bore hole will then be completed with concrete tinted to match the surrounding surface. For borings within landscaping areas or undeveloped vacant areas, the upper foot of each bore hole will be completed with soil cuttings.

### **7.0 WASTE MANAGEMENT**

Unless otherwise specified in the Work Plan, investigation-derived waste (IDW) materials generated by drilling, sampling, and equipment decontamination will be temporary stored on-site in DOT-approved 55-gallon drums or stockpiled on and covered with plastic sheeting. If drums are utilized to contain IDW, they will be labeled as Non-Hazardous Waste.

Unless otherwise specified in the Work Plan, samples of the stockpiled or drummed soil will be collected for disposal characterization. Four soil samples will be collected from random locations accessible around the soil pile after removal of approximately six inches of overburden soil, and driving a clean sample sleeve into the soil pile. Alternately, the same number of samples will be collected randomly from different drums. The IDW soil samples will then be submitted to an analytical laboratory to be composited as one representative sample per approximately 100 cubic yards or less.

**HORIZON ENVIRONMENTAL INC.**

4970 Windplay Drive, Suite C5  
 El Dorado Hills, California 95762  
 (916) 939-2170 -- Fax: (916) 939-2172

Soil Boring No. HB-1

Drilling Company: All Well Abandonment  
 Date Drilled: 7/15/15  
 Drilling Method: Direct-Push  
 Sampling Method: Split spoon

Project No.: 1363.14  
 Site: Ultramar Site No. 3363  
 Location: Mendota, CA  
 Geologist: Emil Kruck

Depth In Feet	Sample Number	Blow Count	Inches Driven	Inches Recovered	PID Reading (ppm)	Sampling Interval	Soil Description/ Comments	Boring
0						0		
1						1	SAND (SP): primarily medium-grained, rounded, pale yellow, dry, loose, micaceous, no odor	
2						2		
3						3		
4						4		
5						5		
6						6	Same as above but medium dense, no odor	
7						7		
8						8		
9						9		
10						10		
11						11	SAND (SW): with some fine gravel, medium to coarse-grained, angular, tan, dry, medium dense, micaceous, no odor	
12						12		
13						13		
14						14	Color changes to brown, moisture increases to moist	
15						15		
16						16		
17						17	SILTY CLAY (CH): gray, moist, very stiff, high plasticity, no odor	
18						18		
19						19		
20						20	SAND (SP): fine-grained, gray, dense, moist, noticeable odor	
21						21	CLAY (CH): blueish-gray, moist, hard, high plasticity, no odor	
22						22	Color changes to olive blue	
23						23	SAND (SP): medium-grained, brown grading to gray, moist, dense, obvious odor	
24						24		
25						25		
26						26	CLAY (CH): olive blue to dark blue, moist, hard, obvious odor	
27						27	SAND (SP): fine to medium-grained, gray, moist, dense, obvious odor	
28						28		
29						29		
30						30		

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Drilling Company: All Well Abandonment  
 Date Drilled: 7/15/15  
 Drilling Method: Direct-Push  
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Project No.: 1363.14  
 Site: Ultramar Site No. 3363  
 Location: Mendota, CA  
 Geologist: Emil Kruck

Depth In Feet	Sample Number	Blow Count	Inches Driven	Inches Recovered	PID Reading (ppm)	Sampling Interval	Soil Description/ Comments	Boring	
30	HB-1-30	15	18	12	17	30	Color change from gray to light gray, fine-grained sand, moist, decreasing odor		
31		21				31			
32		23				32			
33	HB-1-35	8	18	12	6	33	SAND (SP): fine-grained sand, gray, moist, dense, decreasing odor		
34		15				34			
35		25				35			
36	HB-1-40	18	18	12	3	36	Color change to gray-green, moist, very dense, no odor		
37		22				37			
38		25				38			
39	HB-1-45	10	18	10	6	39	Color change from gray-green to dark gray		
40		18				40			
41		20				41			
42	HB-1-50	12	18	10	3	42	SAND (SP): medium-grained, dark gray, moist, dense, no odor		
43		15				43			
44		21				44			
45	HB-1-55	10	18	15	0	45	SAND (SP): fine-grained, dark greenish-gray, very moist, dense, micaceous, no odor		
46		12				46			
47		15				47			
48	HB-1-60	18	18	15	0	48	CLAY (CL): dark gray to bluish-gray, wet, stiff, low plasticity, no odor		
49		20				49			
50		21				50			
51						51	SAND (SP): fine to medium-grained, gray, saturated, medium dense, no odor		
52						52	Groundwater encountered		
53						53			
54						54			
55						55			
56						56			
57						57			
58						58			
59						59			
60						60	Dense, no odor		

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4970 Windplay Drive, Suite C5  
 El Dorado Hills, California 95762  
 (916) 939-2170 -- Fax: (916) 939-2172

Soil Boring No. HB-2

Drilling Company: All Well Abandonment  
 Date Drilled: 7/16/15  
 Drilling Method: Direct-Push  
 Sampling Method: Split spoon

Project No.: 1363.14  
 Site: Ultramar Site No. 3363  
 Location: Mendota, CA  
 Geologist: Emil Kruck

Depth In Feet	Sample Number	Blow Count	Inches Driven	Inches Recovered	PID Reading (ppm)	Sampling Interval	Soil Description/ Comments	Boring
0						0	SILTY SAND (SM): medium-grained sand, tan, dry, medium dense, no odor	
1						1		
2						2		
3						3	SANDY SILT (ML): fine-grained sand, light brown, moist, stiff, low plasticity, no odor	
4						4		
5						5		
6						6	Streaks of caliche	
7						7		
8						8	SAND (SP): mostly fine-grained, light brown, dry, medium dense, no odor	
9						9		
10						10	SILTY SAND (SM): fine-grained sand, brown, moist, medium dense, no odor	
11						11	SANDY SILT (ML): fine-grained sand, light brown, moist, stiff, no odor	
12						12	SILTY CLAY (CH): light brown, moist, stiff, high plasticity, no odor	
13						13		
14						14		
15						15		
16						16	Very stiff, no odor	
17						17		
18						18		
19						19		
20						20	Color change to yellowish brown, moist, hard, high plasticity, no odor	
21						21		
22						22		
23						23		
24						24	SANDY CLAY (CL): fine-grained sand, brown, moist, hard, low plasticity, noticeable odor	
25						25		
26						26	CLAYEY SAND (SC): fine-grained sand, brown, moist, dense, obvious odor	
27						27		
28						28		
29						29		
30						30	SAND (SP): fine to medium-grained, mottled blue and black, moist, medium dense, noticeable odor	

**HORIZON ENVIRONMENTAL INC.**

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Soil Boring No. HB-2

Drilling Company: All Well Abandonment  
 Date Drilled: 7/16/15  
 Drilling Method: Direct-Push  
 Sampling Method: Split spoon

Project No.: 1363.14  
 Site: Ultramar Site No. 3363  
 Location: Mendota, CA  
 Geologist: Emil Kruck

Depth In Feet	Sample Number	Blow Count	Inches Driven	Inches Recovered	PID Reading (ppm)	Sampling Interval	Soil Description/ Comments	Boring
30	HB-2-30	9	18	18	4	30	SAND (SP): fine to medium-grained sand, mottled blue and black, moist, medium dense, noticeable odor	Boring
31		31						
32		32						
33	HB-2-35	9	18	18	2	33	Color changes from dark gray to light gray, moist, no odor	
34		34						
35		35						
36	HB-2-40	8	18	16	0	36	SAND (SP): fine-grained, light gray, moist, dense, no odor	
37		37						
38		38						
39	HB-2-45	8	18	12	0.3	39	CLAY (CL): pale yellow, moist, hard, medium plasticity, no odor	
40		40						
41		41						
42	HB-2-50	6	18	10	0.1	42	SAND (SP): fine-grained, pale yellow, moist, medium dense, no odor	
43		43						
44		44						
45	HB-2-55	12	18	18	0.2	45	Color changes to dark gray	
46		46						
47		47						
48	HB-2-60	12	18	18	0	48	SANDY CLAY (CL): blueish-green, very moist, stiff, low plasticity, no odor	
49		49						
50		50						
51	HB-2-55	18	18	18	0.2	51	SAND (SP): fine-grained, blueish-gray, saturated, dense, no odor	
52		52						
53		53						
54	HB-2-60	18	18	18	0	54	SANDY CLAY (CL): blueish-gray, very moist, hard, low plasticity, hard, no odor	
55		55						
56		56						
57	HB-2-60	12	18	18	0	57	SAND (SP): medium-grained, light gray, saturated, very dense, no odor	
58		58						
59		59						
60	HB-2-60	22	18	18	0	60	Same as above	

neat cement

**HORIZON ENVIRONMENTAL INC.**

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 El Dorado Hills, California 95762  
 (916) 939-2170 -- Fax: (916) 939-2172

Soil Boring No. HB-3

Drilling Company: All Well Abandonment  
 Date Drilled: 7/15/15  
 Drilling Method: Direct-Push  
 Sampling Method: Split spoon

Project No.: 1363.14  
 Site: Ultramar Site No. 3363  
 Location: Mendota, CA  
 Geologist: Emil Kruck

Depth In Feet	Sample Number	Blow Count	Inches Driven	Inches Recovered	PID Reading (ppm)	Sampling Interval	Soil Description/ Comments	Boring
							Restaurant property	
						0	Pavement: 4 inches asphalt and 2 inches baserock	
						1	SANDY SILT (ML): fine-grained sand, light brown, dry, firm, low plasticity: FILL	
						2	Color change to yellowish brown, no odor	
						3		
						4		
						5	SILTY SAND (SM): fine-grained sand, brown, moist, medium dense, no odor	
						6	8-inch diameter bore hole	
						7	Abundant white caliche concretions	
						8		
						9	neat cement	
						10		
						11	CLAYEY SILT (ML): brown, moist, medium plasticity, very stiff, no odor	
						12		
						13		
						14		
						15		
						16	SILTY CLAY (CH): yellowish-brown, moist, very stiff, high plasticity, no odor	
						17		
						18		
						19		
						20		
						21	Color change to brown with black streaks, moist, no odor	
						22		
						23		
						24	Color change to yellowish-brown, moist, hard, high plasticity, no odor	
						25		
						26	CLAYEY SILT (ML): blueish-black, moist, very stiff, medium plasticity, noticeable odor	
						27		
						28		
						29		
						30	SILTY SAND (SM): blue mottled with black, moist, dense, noticeable odor	

**HORIZON ENVIRONMENTAL INC.**

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Soil Boring No. HB-3

Drilling Company: All Well Abandonment  
 Date Drilled: 7/15/15  
 Drilling Method: Direct-Push  
 Sampling Method: Split spoon

Project No.: 1363.14  
 Site: Ultramar Site No. 3363  
 Location: Mendota, CA  
 Geologist: Emil Kruck

Depth In Feet	Sample Number	Blow Count	Inches Driven	Inches Recovered	PID Reading (ppm)	Soil Description/ Comments	Boring
30	HB-2-30	7	18	18	25	SILTY SAND (SM): blue and black, moist, noticeable odor	
31		12				SAND (SP): fine-grained sand, white, moist, medium dense, no odor	
32		15					
33							
34							
35	HB-2-35	10	18	16	3	Medium dense to dense, no odor	
36		15					
37		18					
38							
39							
40	HB-2-40	8	18	16	4	SAND (SP): fine-grained, light gray and white, moist, medium dense, no odor	
41		11					
42		11					
43							
44							
45	HB-2-45	8	18	18	4	Color changes to gray, no odor	
46		8					
47		15					
48						Noticeable odor in cuttings	
49							
50	HB-2-50	7	18	18	59	SILTY SAND (SM): fine-grained, dark gray, very moist, medium dense, noticeable odor	
51		12					
52		13					
53						CLAYEY SILT (ML): dark gray, very moist to wet, very stiff, medium plasticity, obvious odor	
54							
55	HB-2-55	7	18	18	10	SILTY SAND (SM): fine to medium-grained, dark gray, saturated, medium dense, obvious odor	
56		9					
57		15					
58							
59	HB-2-60	7	18	18	3	SAND (SP): medium-grained, gray, saturated, medium dense, less noticeable odor	
60		9					
		12					

Total Depth = 60.5 feet  
 Groundwater encountered at 52 feet bsg

## **ATTACHMENT C**



12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859  
Tax I.D. 62-0814289  
Est. 1970

Ken Mateik  
CST Brands, Inc - CO  
5590 Havana Street - Unit B  
Denver, CO 80239

**Report Summary**  
  
Tuesday July 28, 2015  
  
Report Number: L777956  
Samples Received: 07/21/15  
Client Project: 1363.14  
  
Description: Former Beacon #363 - HB Borings

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Terrie Fudge, ESC Representative

**Laboratory Certification Numbers**

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/B10041, ND - R-140. NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

*Soil Samples*



YOUR LAB OF CHOICE

12065 Lebanon Rd.  
 Mt. Juliet, TN 37122  
 (615) 758-5859  
 1-800-767-5859  
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

July 28, 2015

Ken Mateik  
 CST Brands, Inc - CO  
 5590 Havana Street - Unit B  
 Denver, CO 80239

Date Received : July 21, 2015  
 Description : Former Beacon #363 - HB Borings  
 Sample ID : HB-1 20FT  
 Collected By : Emil Kruck  
 Collection Date : 07/15/15 10:30

ESC Sample # : L777956-01  
 Site ID : FORMER BEACON #363  
 Project # : 1363.14

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	79.5		%	2540 G-2011	07/23/15	1
TPHG C5 - C12	6.0	3.1	mg/kg	8015	07/24/15	25
Surrogate Recovery-% a,a,a-Trifluorotoluene (FID)	94.3		% Rec.	8015	07/24/15	1
Diesel Range Organics California C12-C22 Hydrocarbons	BDL	5.0	mg/kg	8015	07/27/15	1
Surrogate Recovery o-Terphenyl	75.7		% Rec.	8015	07/27/15	1
Benzene	BDL	0.0063	mg/kg	8260B	07/27/15	5
Toluene	BDL	0.031	mg/kg	8260B	07/27/15	5
Ethylbenzene	BDL	0.0063	mg/kg	8260B	07/27/15	5
Total Xylenes	BDL	0.019	mg/kg	8260B	07/27/15	5
Methyl tert-butyl ether	BDL	0.0063	mg/kg	8260B	07/27/15	5
Surrogate Recovery Toluene-d8	101.		% Rec.	8260B	07/27/15	1
Dibromofluoromethane	100.		% Rec.	8260B	07/27/15	1
4-Bromofluorobenzene	105.		% Rec.	8260B	07/27/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 07/28/15 19:24 Printed: 07/28/15 19:24



**YOUR LAB OF CHOICE**

12065 Lebanon Rd.  
 Mt. Juliet, TN 37122  
 (615) 758-5858  
 1-800-767-5859  
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

July 28, 2015

Ken Mateik  
 CST Brands, Inc - CO  
 5590 Havana Street - Unit B  
 Denver, CO 80239

Date Received : July 21, 2015  
 Description : Former Beacon #363 - HB Borings  
 Sample ID : HB-1 25FT  
 Collected By : Emil Kruck  
 Collection Date : 07/15/15 10:35

ESC Sample # : L777956-02  
 Site ID : FORMER BEACON #363  
 Project # : 1363.14

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	82.6		%	2540 G-2011	07/23/15	1
TPHG C5 - C12	470	60.	mg/kg	8015	07/24/15	500
Surrogate Recovery-% a,a,a-Trifluorotoluene (FID)	94.3		% Rec.	8015	07/24/15	1
Diesel Range Organics California C12-C22 Hydrocarbons	90.	4.8	mg/kg	8015	07/27/15	1
Surrogate Recovery o-Terphenyl	79.3		% Rec.	8015	07/27/15	1
Benzene	BDL	0.12	mg/kg	8260B	07/27/15	100
Toluene	BDL	0.60	mg/kg	8260B	07/27/15	100
Ethylbenzene	1.4	0.12	mg/kg	8260B	07/27/15	100
Total Xylenes	9.1	0.36	mg/kg	8260B	07/27/15	100
Methyl tert-butyl ether	BDL	0.12	mg/kg	8260B	07/27/15	100
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	07/27/15	1
Dibromofluoromethane	103.		% Rec.	8260B	07/27/15	1
4-Bromofluorobenzene	103.		% Rec.	8260B	07/27/15	1

Results listed are dry weight basis.  
 BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit (PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

July 28, 2015

Ken Mateik  
 CST Brands, Inc - CO  
 5590 Havana Street - Unit B  
 Denver, CO 80239

Date Received : July 21, 2015  
 Description : Former Beacon #363 - HB Borings  
 Sample ID : HB-1 30FT  
 Collected By : Emil Kruck  
 Collection Date : 07/15/15 10:43

ESC Sample # : L777956-03  
 Site ID : FORMER BEACON #363  
 Project # : 1363.14

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	75.0		%	2540 G-2011	07/23/15	1
TPHG C5 - C12	0.67	0.67	mg/kg	8015	07/24/15	5
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	93.6		% Rec.	8015	07/24/15	1
Diesel Range Organics California C12-C22 Hydrocarbons	BDL	5.3	mg/kg	8015	07/27/15	1
Surrogate Recovery o-Terphenyl	82.0		% Rec.	8015	07/27/15	1
Benzene	BDL	0.0067	mg/kg	8260B	07/27/15	5
Toluene	BDL	0.033	mg/kg	8260B	07/27/15	5
Ethylbenzene	BDL	0.0067	mg/kg	8260B	07/27/15	5
Total Xylenes	BDL	0.020	mg/kg	8260B	07/27/15	5
Methyl tert-butyl ether	BDL	0.0067	mg/kg	8260B	07/27/15	5
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	07/27/15	1
Dibromofluoromethane	103.		% Rec.	8260B	07/27/15	1
4-Bromofluorobenzene	108.		% Rec.	8260B	07/27/15	1

Results listed are dry weight basis.  
 BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

July 28, 2015

Ken Mateik  
 CST Brands, Inc - CO  
 5590 Havana Street - Unit B  
 Denver, CO 80239

Date Received : July 21, 2015  
 Description : Former Beacon #363 - HB Borings  
 Sample ID : HB-1 50FT  
 Collected By : Emil Kruck  
 Collection Date : 07/15/15 11:20

ESC Sample # : L777956-04  
 Site ID : FORMER BEACON #363  
 Project # : 1363.14

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	83.0		%	2540 G-2011	07/23/15	1
TPHG C5 - C12	BDL	0.60	mg/kg	8015	07/24/15	5
Surrogate Recovery-% a,a,a-Trifluorotoluene (FID)	93.3		% Rec.	8015	07/24/15	1
Diesel Range Organics California C12-C22 Hydrocarbons	BDL	4.8	mg/kg	8015	07/27/15	1
Surrogate Recovery o-Terphenyl	91.4		% Rec.	8015	07/27/15	1
Benzene	BDL	0.0060	mg/kg	8260B	07/23/15	5
Toluene	BDL	0.030	mg/kg	8260B	07/23/15	5
Ethylbenzene	BDL	0.0060	mg/kg	8260B	07/23/15	5
Total Xylenes	BDL	0.018	mg/kg	8260B	07/23/15	5
Methyl tert-butyl ether	BDL	0.0060	mg/kg	8260B	07/23/15	5
Surrogate Recovery						
Toluene-d8	108.		% Rec.	8260B	07/23/15	1
Dibromofluoromethane	94.8		% Rec.	8260B	07/23/15	1
4-Bromofluorobenzene	104.		% Rec.	8260B	07/23/15	1

Results listed are dry weight basis.

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Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

July 28, 2015

Ken Mateik  
 CST Brands, Inc - CO  
 5590 Havana Street - Unit B  
 Denver, CO 80239

Date Received : July 21, 2015  
 Description : Former Beacon #363 - HB Borings  
 Sample ID : HB-1 60FT  
 Collected By : Emil Kruck  
 Collection Date : 07/15/15 11:45

ESC Sample # : L777956-05  
 Site ID : FORMER BEACON #363  
 Project # : 1363.14

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	82.6		%	2540 G-2011	07/23/15	1
TPHG C5 - C12	BDL	0.60	mg/kg	8015	07/24/15	5
Surrogate Recovery-% a, a, a-Trifluorotoluene (FID)	93.4		% Rec.	8015	07/24/15	1
Diesel Range Organics California C12-C22 Hydrocarbons	BDL	4.8	mg/kg	8015	07/27/15	1
Surrogate Recovery o-Terphenyl	98.4		% Rec.	8015	07/27/15	1
Benzene	BDL	0.0060	mg/kg	8260B	07/23/15	5
Toluene	BDL	0.030	mg/kg	8260B	07/23/15	5
Ethylbenzene	BDL	0.0060	mg/kg	8260B	07/23/15	5
Total Xylenes	BDL	0.018	mg/kg	8260B	07/23/15	5
Methyl tert-butyl ether	BDL	0.0060	mg/kg	8260B	07/23/15	5
Surrogate Recovery						
Toluene-d8	107.		% Rec.	8260B	07/23/15	1
Dibromofluoromethane	95.8		% Rec.	8260B	07/23/15	1
4-Bromofluorobenzene	106.		% Rec.	8260B	07/23/15	1

Results listed are dry weight basis.

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Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

July 28, 2015

Ken Mateik  
 CST Brands, Inc - CO  
 5590 Havana Street - Unit B  
 Denver, CO 80239

Date Received : July 21, 2015  
 Description : Former Beacon #363 - HB Borings  
 Sample ID : HB-3 25FT  
 Collected By : Emil Kruck  
 Collection Date : 07/15/15 16:08

ESC Sample # : L777956-06  
 Site ID : FORMER BEACON #363  
 Project # : 1363.14

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	79.2		%	2540 G-2011	07/23/15	1
TPHG C5 - C12	64.	63.	mg/kg	8015	07/24/15	500
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	93.8		% Rec.	8015	07/24/15	1
Diesel Range Organics California C12-C22 Hydrocarbons	28.	5.0	mg/kg	8015	07/27/15	1
Surrogate Recovery o-Terphenyl	90.5		% Rec.	8015	07/27/15	1
Benzene	BDL	0.032	mg/kg	8260B	07/27/15	25
Toluene	BDL	0.16	mg/kg	8260B	07/27/15	25
Ethylbenzene	0.15	0.032	mg/kg	8260B	07/27/15	25
Total Xylenes	0.15	0.095	mg/kg	8260B	07/27/15	25
Methyl tert-butyl ether	BDL	0.032	mg/kg	8260B	07/27/15	25
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	07/27/15	1
Dibromofluoromethane	99.2		% Rec.	8260B	07/27/15	1
4-Bromofluorobenzene	76.4		% Rec.	8260B	07/27/15	1

Results listed are dry weight basis.

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REPORT OF ANALYSIS

July 28, 2015

Ken Mateik  
CST Brands, Inc - CO  
5590 Havana Street - Unit B  
Denver, CO 80239

Date Received : July 21, 2015  
Description : Former Beacon #363 - HB Borings  
Sample ID : HB-3 50FT  
Collected By : Emil Kruck  
Collection Date : 07/15/15 16:53

ESC Sample # : L777956-07  
Site ID : FORMER BEACON #363  
Project # : 1363.14

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	83.1		%	2540 G-2011	07/23/15	1
TPHG C5 - C12	320	24.	mg/kg	8015	07/24/15	200
Surrogate Recovery-% a,a,a-Trifluorotoluene (FID)	94.2		% Rec.	8015	07/24/15	1
Diesel Range Organics California C12-C22 Hydrocarbons	30.	4.8	mg/kg	8015	07/27/15	1
Surrogate Recovery o-Terphenyl	102.		% Rec.	8015	07/27/15	1
Benzene	BDL	0.030	mg/kg	8260B	07/27/15	25
Toluene	BDL	0.15	mg/kg	8260B	07/27/15	25
Ethylbenzene	0.29	0.030	mg/kg	8260B	07/27/15	25
Total Xylenes	BDL	0.090	mg/kg	8260B	07/27/15	25
Methyl tert-butyl ether	BDL	0.030	mg/kg	8260B	07/27/15	25
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	07/27/15	1
Dibromofluoromethane	101.		% Rec.	8260B	07/27/15	1
4-Bromofluorobenzene	85.5		% Rec.	8260B	07/27/15	1

Results listed are dry weight basis.

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REPORT OF ANALYSIS

July 28, 2015

Ken Mateik  
CST Brands, Inc - CO  
5590 Havana Street - Unit B  
Denver, CO 80239

Date Received : July 21, 2015  
Description : Former Beacon #363 - HB Borings  
Sample ID : HB-3 60FT  
Collected By : Emil Kruck  
Collection Date : 07/15/15 17:10

ESC Sample # : L777956-08

Site ID : FORMER BEACON #363

Project # : 1363.14

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	80.4		%	2540 G-2011	07/23/15	1
TPHG C5 - C12	BDL	0.62	mg/kg	8015	07/26/15	5
Surrogate Recovery-% a,a,a-Trifluorotoluene (FID)	96.3		% Rec.	8015	07/26/15	1
Diesel Range Organics California C12-C22 Hydrocarbons	BDL	5.0	mg/kg	8015	07/27/15	1
Surrogate Recovery o-Terphenyl	105.		% Rec.	8015	07/27/15	1
Benzene	BDL	0.0062	mg/kg	8260B	07/23/15	5
Toluene	BDL	0.031	mg/kg	8260B	07/23/15	5
Ethylbenzene	BDL	0.0062	mg/kg	8260B	07/23/15	5
Total Xylenes	BDL	0.019	mg/kg	8260B	07/23/15	5
Methyl tert-butyl ether	BDL	0.0062	mg/kg	8260B	07/23/15	5
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	07/23/15	1
Dibromofluoromethane	101.		% Rec.	8260B	07/23/15	1
4-Bromofluorobenzene	100.		% Rec.	8260B	07/23/15	1

Results listed are dry weight basis.

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Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

July 28, 2015

Ken Mateik  
CST Brands, Inc - CO  
5590 Havana Street - Unit B  
Denver, CO 80239

Date Received : July 21, 2015  
Description : Former Beacon #363 - HB Borings  
Sample ID : HB-2 25FT  
Collected By : Emil Kruck  
Collection Date : 07/16/15 08:52

ESC Sample # : L777956-09  
Site ID : FORMER BEACON #363  
Project # : 1363.14

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	70.4		%	2540 G-2011	07/23/15	1
TPHG C5 - C12	270	28.	mg/kg	8015	07/24/15	200
Surrogate Recovery-% a,a,a-Trifluorotoluene (FID)	94.8		% Rec.	8015	07/24/15	1
Diesel Range Organics California C12-C22 Hydrocarbons	54.	5.7	mg/kg	8015	07/27/15	1
Surrogate Recovery o-Terphenyl	74.2		% Rec.	8015	07/27/15	1
Benzene	BDL	0.28	mg/kg	8260B	07/23/15	200
Toluene	BDL	1.4	mg/kg	8260B	07/23/15	200
Ethylbenzene	0.85	0.28	mg/kg	8260B	07/23/15	200
Total Xylenes	5.1	0.85	mg/kg	8260B	07/23/15	200
Methyl tert-butyl ether	BDL	0.28	mg/kg	8260B	07/23/15	200
Surrogate Recovery						
Toluene-d8	108.		% Rec.	8260B	07/23/15	1
Dibromofluoromethane	99.5		% Rec.	8260B	07/23/15	1
4-Bromofluorobenzene	105.		% Rec.	8260B	07/23/15	1

Results listed are dry weight basis.

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Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

July 28, 2015

Ken Mateik  
 CST Brands, Inc - CO  
 5590 Havana Street - Unit B  
 Denver, CO 80239

Date Received : July 21, 2015  
 Description : Former Beacon #363 - HB Borings  
 Sample ID : HB-2 50FT  
 Collected By : Emil Kruck  
 Collection Date : 07/16/15 09:32

ESC Sample # : L777956-10  
 Site ID : FORMER BEACON #363  
 Project # : 1363.14

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	82.8		%	2540 G-2011	07/23/15	1
TPHG C5 - C12	BDL	0.60	mg/kg	8015	07/24/15	5
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	92.9		% Rec.	8015	07/24/15	1
Diesel Range Organics California C12-C22 Hydrocarbons	BDL	4.8	mg/kg	8015	07/27/15	1
Surrogate Recovery o-Terphenyl	96.1		% Rec.	8015	07/27/15	1
Benzene	BDL	0.0060	mg/kg	8260B	07/23/15	5
Toluene	BDL	0.030	mg/kg	8260B	07/23/15	5
Ethylbenzene	BDL	0.0060	mg/kg	8260B	07/23/15	5
Total Xylenes	BDL	0.018	mg/kg	8260B	07/23/15	5
Methyl tert-butyl ether	BDL	0.0060	mg/kg	8260B	07/23/15	5
Surrogate Recovery						
Toluene-d8	108.		% Rec.	8260B	07/23/15	1
Dibromofluoromethane	99.9		% Rec.	8260B	07/23/15	1
4-Bromofluorobenzene	103.		% Rec.	8260B	07/23/15	1

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REPORT OF ANALYSIS

July 28, 2015

Ken Mateik
CST Brands, Inc - CO
5590 Havana Street - Unit B
Denver, CO 80239

Date Received : July 21, 2015
Description : Former Beacon #363 - HB Borings
Sample ID : HB-2 60FT
Collected By : Emil Kruck
Collection Date : 07/16/15 09:46

ESC Sample # : L777956-11
Site ID : FORMER BEACON #363
Project # : 1363.14

Table with 8 columns: Parameter, Dry Result, Det. Limit, Units, Method, Date, Dil. Rows include Total Solids, TPHG C5 - C12, Surrogate Recovery-% a,a,a-Trifluorotoluene (FID), Diesel Range Organics California C12-C22 Hydrocarbons, Surrogate Recovery o-Terphenyl, Benzene, Toluene, Ethylbenzene, Total Xylenes, Methyl tert-butyl ether, Surrogate Recovery Toluene-d8, Dibromofluoromethane, 4-Bromofluorobenzene.

Results listed are dry weight basis.

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REPORT OF ANALYSIS

July 28, 2015

Ken Mateik  
CST Brands, Inc - CO  
5590 Havana Street - Unit B  
Denver, CO 80239

Date Received : July 21, 2015  
Description : Former Beacon #363 - HB Borings  
Sample ID : SP-1 COMP  
Collected By : Emil Kruck  
Collection Date : 07/16/15 14:40

ESC Sample # : L777956-12

Site ID : FORMER BEACON #363

Project # : 1363.14

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.5		%	2540 G-2011	07/23/15	1
Lead	6.1	0.50	mg/kg	6010B	07/22/15	1
TPHG C5 - C12	1.4	0.57	mg/kg	8015	07/28/15	5
Surrogate Recovery-% a,a,a-Trifluorotoluene (FID)	90.2		% Rec.	8015	07/28/15	1
Diesel Range Organics California C12-C22 Hydrocarbons	BDL	23.	mg/kg	8015	07/27/15	5
Surrogate Recovery o-Terphenyl	89.6		% Rec.	8015	07/27/15	5
Benzene	BDL	0.0057	mg/kg	8260B	07/26/15	5
Toluene	BDL	0.028	mg/kg	8260B	07/26/15	5
Ethylbenzene	BDL	0.0057	mg/kg	8260B	07/26/15	5
Total Xylenes	BDL	0.017	mg/kg	8260B	07/26/15	5
Methyl tert-butyl ether	BDL	0.0057	mg/kg	8260B	07/26/15	5
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	07/26/15	1
Dibromofluoromethane	116.		% Rec.	8260B	07/26/15	1
4-Bromofluorobenzene	95.3		% Rec.	8260B	07/26/15	1

Results listed are dry weight basis.

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Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L777956-01	WG804071	SAMP	Total Solids	R3052151	J3

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.







Troy Dunlap

**ESC Lab Sciences**  
**Non-Conformance Form**

Login #: L777956	Client: CSTDCO	Date: 7/21/15	Evaluated by: Troy Dunlap
------------------	----------------	---------------	---------------------------

**Non-Conformance (check applicable items)**

Sample Integrity		Chain of Custody Clarification	
Parameter(s) past holding time	x	Login Clarification Needed	<b>If Broken Container:</b>
Improper temperature		Chain of custody is incomplete	Insufficient packing material around container
Improper container type		Please specify Metals requested.	Insufficient packing material inside cooler
Improper preservation		Please specify TCLP requested.	Improper handling by carrier (FedEx / UPS / Courier)
Insufficient sample volume.		Received additional samples not listed on coc.	Sample was frozen
Sample is biphasic.		Sample ids on containers do not match ids on coc	Container lid not intact
Vials received with headspace.		Trip Blank not received.	<b>If no Chain of Custody:</b>
Broken container		Client did not "X" analysis.	Received by:
Broken container:		Chain of Custody is missing	Date/Time:
Sufficient sample remains			Temp./Cont. Rec./pll:
			Carrier:
			Tracking#

**Login Comments: Does SP-1 (A,B,C,D) need to be composited? Received separate samples for A, B, C and D. No comment to composite. Please advise.**

Client informed by:	Call	x	Email	Voice Mail	Date: 7/21/15	Time: 1336
TSR Initials: tf	Client Contact: Ken Mateik					

**Login Instructions:**

**Per the client - the four sample sleeves needs to be composited into one soil sample**

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Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Ken Mateik  
CST Brands, Inc - CO  
5590 Havana Street - Unit B  
Denver, CO 80239

### Report Summary

Tuesday July 28, 2015

Report Number: L777968

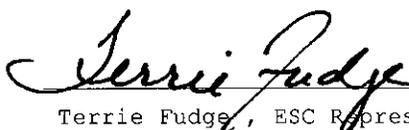
Samples Received: 07/21/15

Client Project: 1363.14

Description: Former Beacon #363 - HB Borings

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
Terrie Fudge, ESC Representative

#### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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*Water Samples*



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REPORT OF ANALYSIS

July 28, 2015

Ken Mateik  
CST Brands, Inc - CO  
5590 Havana Street - Unit B  
Denver, CO 80239

Date Received : July 21, 2015  
Description : Former Beacon #363 - HB Borings  
Sample ID : HB-1  
Collected By : Emil Kruck  
Collection Date : 07/15/15 12:00

ESC Sample # : L777968-01  
Site ID : FORMER BEACON 3363  
Project # : 1363.14

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TPHG C5 - C12	4800	30.	100	ug/l		8015	07/21/15	1
Surrogate Recovery-% a,a,a-Trifluorotoluene (FID)	97.1			% Rec.		8015	07/21/15	1
Benzene	4.0	0.33	1.0	ug/l		8260B	07/23/15	1
Toluene	7.5	0.78	5.0	ug/l		8260B	07/23/15	1
Ethylbenzene	42.	0.38	1.0	ug/l		8260B	07/23/15	1
Total Xylenes	160	1.1	3.0	ug/l		8260B	07/23/15	1
Methyl tert-butyl ether	U	0.37	1.0	ug/l		8260B	07/23/15	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	07/23/15	1
Dibromofluoromethane	100.			% Rec.		8260B	07/23/15	1
4-Bromofluorobenzene	94.3			% Rec.		8260B	07/23/15	1
Diesel Range Organics California C12-C22 Hydrocarbons	1100	53.	220	ug/l		8015	07/28/15	2.16
Surrogate Recovery o-Terphenyl	78.0			% Rec.		8015	07/28/15	2.16

U = ND (Not Detected)  
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL  
MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:  
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REPORT OF ANALYSIS

July 28, 2015

Ken Mateik  
 CST Brands, Inc - CO  
 5590 Havana Street - Unit B  
 Denver, CO 80239

ESC Sample # : L777968-02

Date Received : July 21, 2015  
 Description : Former Beacon #363 - HB Borings

Site ID : FORMER BEACON 3363

Sample ID : HB-2

Project # : 1363.14

Collected By : Emil Kruck  
 Collection Date : 07/16/15 10:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TPHG C5 - C12	1500	30.	100	ug/l		8015	07/21/15	1
Surrogate Recovery-% a,a,a-Trifluorotoluene (FID)	95.4			% Rec.		8015	07/21/15	1
Benzene	20.	0.33	1.0	ug/l		8260B	07/23/15	1
Toluene	33.	0.78	5.0	ug/l		8260B	07/23/15	1
Ethylbenzene	91.	0.38	1.0	ug/l		8260B	07/23/15	1
Total Xylenes	74.	1.1	3.0	ug/l		8260B	07/23/15	1
Methyl tert-butyl ether	1.8	0.37	1.0	ug/l		8260B	07/23/15	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	07/23/15	1
Dibromofluoromethane	97.8			% Rec.		8260B	07/23/15	1
4-Bromofluorobenzene	95.1			% Rec.		8260B	07/23/15	1
Diesel Range Organics California C12-C22 Hydrocarbons	830	53.	220	ug/l		8015	07/28/15	2.16
Surrogate Recovery o-Terphenyl	92.0			% Rec.		8015	07/28/15	2.16

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

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REPORT OF ANALYSIS

July 28, 2015

Ken Mateik
CST Brands, Inc - CO
5590 Havana Street - Unit B
Denver, CO 80239

ESC Sample # : L777968-03

Date Received : July 21, 2015
Description : Former Beacon #363 - HB Borings

Site ID : FORMER BEACON 3363

Sample ID : HB-3

Project # : 1363.14

Collected By : Emil Kruck
Collection Date : 07/15/15 17:50

Table with columns: Parameter, Result, MDL, RDL, Units, Qualifier, Method, Date, Dil. Rows include TPHG C5 - C12, Surrogate Recovery-% a,a,a-Trifluorotoluene(FID), Benzene, Toluene, Ethylbenzene, Total Xylenes, Methyl tert-butyl ether, Surrogate Recovery Toluene-d8, Dibromofluoromethane, 4-Bromofluorobenzene, Diesel Range Organics California C12-C22 Hydrocarbons, Surrogate Recovery o-Terphenyl.

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

July 28, 2015

Ken Mateik  
 CST Brands, Inc - CO  
 5590 Havana Street - Unit B  
 Denver, CO 80239

ESC Sample # : L777968-04

Date Received : July 21, 2015  
 Description : Former Beacon #363 - HB Borings

Site ID : FORMER BEACON 3363

Sample ID : R-1

Project # : 1363.14

Collected By : Emil Kruck  
 Collection Date : 07/16/15 13:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TPHG C5 - C12	460	30.	100	ug/l		8015	07/22/15	1
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	102.			% Rec.		8015	07/22/15	1
Benzene	U	0.33	1.0	ug/l		8260B	07/23/15	1
Toluene	U	0.78	5.0	ug/l		8260B	07/23/15	1
Ethylbenzene	6.2	0.38	1.0	ug/l		8260B	07/23/15	1
Total Xylenes	37.	1.1	3.0	ug/l		8260B	07/23/15	1
Methyl tert-butyl ether	U	0.37	1.0	ug/l		8260B	07/23/15	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	07/23/15	1
Dibromofluoromethane	98.8			% Rec.		8260B	07/23/15	1
4-Bromofluorobenzene	98.0			% Rec.		8260B	07/23/15	1
Diesel Range Organics California C12-C22 Hydrocarbons	820	33.	130	ug/l		8015	07/28/15	1.33
Surrogate Recovery o-Terphenyl	118.			% Rec.		8015	07/28/15	1.33

U = ND (Not Detected)  
 RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL  
 MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:  
 The reported analytical results relate only to the sample submitted.  
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 12065 Lebaron Rd  
 Houston, TX 77122  
 Phone: 800-767-5858  
 Fax: 800-767-5859

L# **67798**  
**B126**  
 Acctnum: **CS1DCO**  
 Template:  
 Prelogin:  
 TSR: **064 Terrie Fudge**  
 PB:

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Centrs	Remarks
HB-1	Grab	GW	NA	07/15/15	12:00	5	X GRO CA EPA 8015
HB-2	Grab	GW	NA	07/16/15	10:15	5	X GRO CA
HB-3	Grab	GW	NA	07/15/15	17:50	5	X GRO CA
R-1	GRAB	DT	NA	07/16/15	19:00	5	X GRO CA

Analysis / Container / Preservative

8260B BTEX and MTBE

**Billing Information:**  
**CS T Brands**  
**Mr. Kent Swanson**  
**5590 Havana Street - Unit B**  
**Denver CO 80239**

City/State Collected: **Watsonville, CA**  
 Lab Project #  
 P.O. # **3363**

Site/Facility ID #  
**Former Beacon #3363**  
 Rush? (Lab MUST Be Notified)  
 Same Day ..... 200%  
 Next Day ..... 100%  
 Two Day ..... 50%  
 Three Day ..... 25%

Collector's Signature:  
*Emil Kruck*  
 Immediately Packed on Ice N  Y

Company Name/Address:  
**Horizon Environmental**  
**4970 Windplay Drive, Ste 5**  
**El Dorado Hills, CA 95762**

Report to:  
**Ken Mateik**  
 Former Beacon #3363 -- HB borings

Client Project #  
**1363.14**

Matrix: **SS Soil GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other GW**

Remarks:  
 6440 DD 7591  
 Date: 07/20/15 15:45  
 Date: 07/20/15 15:45  
 Date: 07/20/15 15:45

Received by: (Signature) *Emil Kruck*  
 Received by: (Signature)  
 Received by: (Signature)

Condition: (lab use only) **TDI**  
 Temp: **24°C** Bottles Received: **20**  
 Date: **7/21/15** Time: **0900**  
 COC Seal Intact: Y N   
 pH Checked:

Troy Dunlap

**ESC Lab Sciences**  
**Non-Conformance Form**

Login #: L777968	Client: CSTDCO	Date: 7/21/15	Evaluated by: Scott Curran
------------------	----------------	---------------	----------------------------

**Non-Conformance (check applicable items)**

Sample Integrity	Chain of Custody Clarification	
Parameter(s) past holding time	Login Clarification Needed	<b>If Broken Container:</b>
Improper temperature	Chain of custody is incomplete	Insufficient packing material around container
Improper container type	Please specify Metals requested.	Insufficient packing material inside cooler
Improper preservation	Please specify TCLP requested.	Improper handling by carrier (FedEx / UPS / Courle
Insufficient sample volume.	Received additional samples not listed on coc.	Sample was frozen
Sample is biphasic.	Sample ids on containers do not match ids on coc	Container lid not intact
Vials received with headspace.	Trip Blank not received.	<b>If no Chain of Custody:</b>
Broken container	X Client did not "X" analysis.	Received by:
Broken container:	Chain of Custody is missing	Date/Time:
Sufficient sample remains		Temp./Cont. Rec./pH:
		Carrier:
		Tracking#

**Login Comments: R-1 is not marked for analysis.**

Client informed by:	Call	Email	Voice Mail	Date: 7/21/15	Time: 1338
TSR Initials:tf	Client Contact:				

**Login Instructions:**

**Run the same tests as the other samples**

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## **ATTACHMENT D**

# Manifest

## SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 8/19/15      Responsible for Payment:      Transport Truck #: 875/733      Facility #: A07      Approval Number: 44770      Load #: 10011

Generator's Name and Billing Address: **CST BRANDS, INC.  
ATTN: KENT SWANSON  
6590 HAVANA STREET - UNIT B  
DENVER, CO 80239**

Generator's Phone #: **303-373-8028**

Person to Contact:

FAX#:

Customer Account Number:

Consultant's Name and Billing Address:

Consultant's Phone #:

Person to Contact:

FAX#:

Customer Account Number:

Generation Site (Transport from): (name & address)  
**FORMER BEACON STATION 383  
1287 OLLER ST.  
MENDOTA, CA 93840**

Site Phone #:

Person to Contact:

FAX#:

Designated Facility (Transport to): (name & address)  
**SOIL SAFE  
12328 HIBISCUS AVENUE  
ADELANTO, CA 92301**

Facility Phone #: **(800) 862-8001**

Person to Contact: **JOE PROVANSAL**

FAX#: **(760) 248-8004**

Transporter Name and Mailing Address:  
**BELSHIRE  
28971 TOWNE CENTRE DRIVE  
FOOTHILL RANCH, CA 92610**

Transporter's Phone #: **949-480-5200**

Person to Contact: **LARRY MOOTHART**

FAX#: **949-480-5210**

Customer Account Number: **CAR000183813**  
**450647**

BESI: 287026

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	<b>5 DM</b>		<b>40960</b>	<b>38100</b>	<b>2860</b>
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					<b>1.43</b>

List any exception to items listed above: \_\_\_\_\_ Scale Ticket # **121578**

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator  Consultant  Signature and date: \_\_\_\_\_ Month, Day, Year: **8/19/15**  
**Larry Moothart of BESI on behalf of generator**

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: \_\_\_\_\_ Signature and date: \_\_\_\_\_ Month, Day, Year: **8/19/15**  
**Paul Bellard**

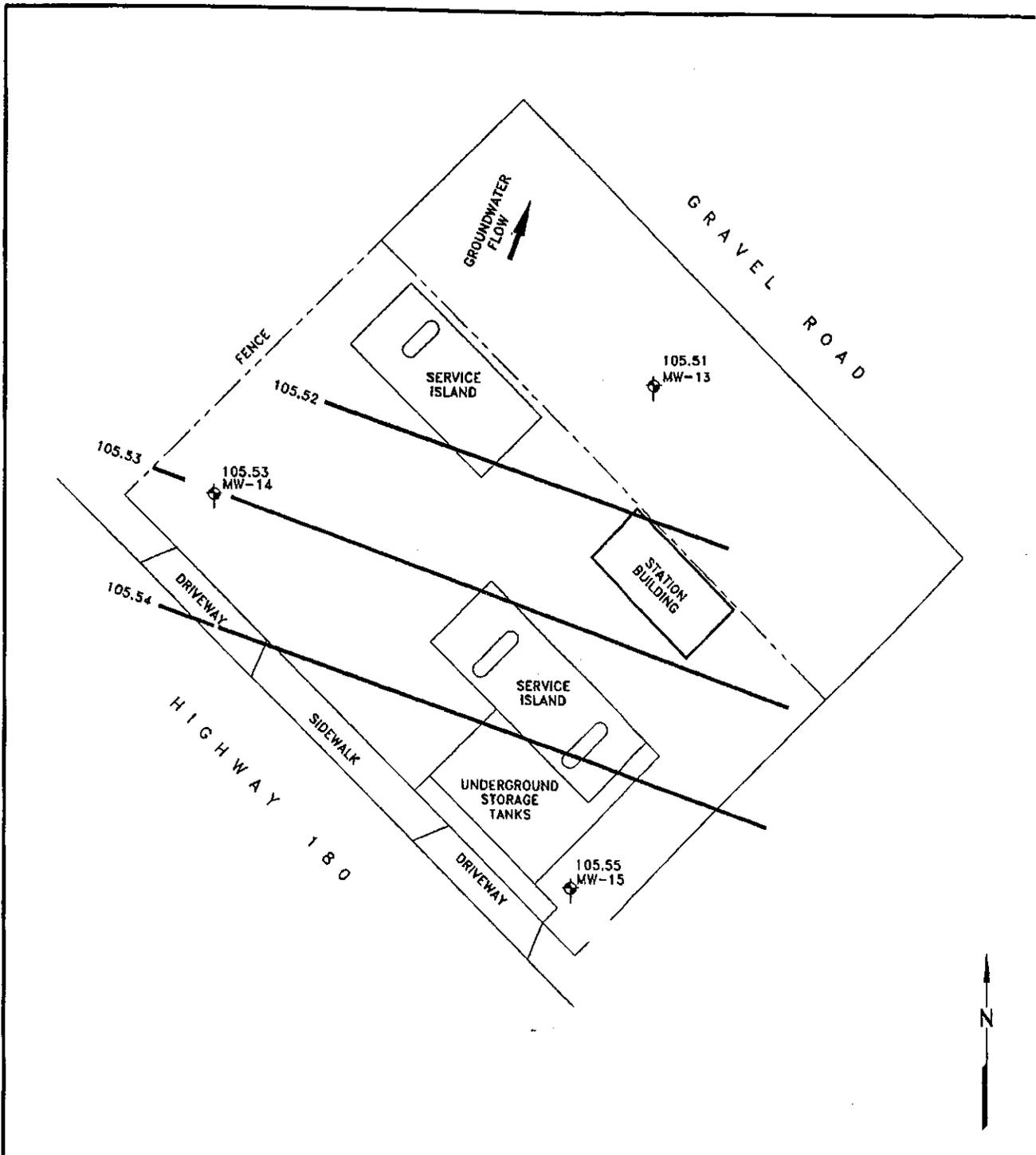
Discrepancies:  
**1207011e  
1207039**

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:  
Print or Type Name: **J. PROVANSAL** Signature and date: \_\_\_\_\_  
**8-19-15**

Please print or type



## **ATTACHMENT E**



**LEGEND:**

- MW-3 MONITORING WELL
- 105.52 GROUNDWATER ELEVATION (CONTOUR INTERVAL = .01 FT.)

**SCALE IN FEET**



FN: 0294/0024S

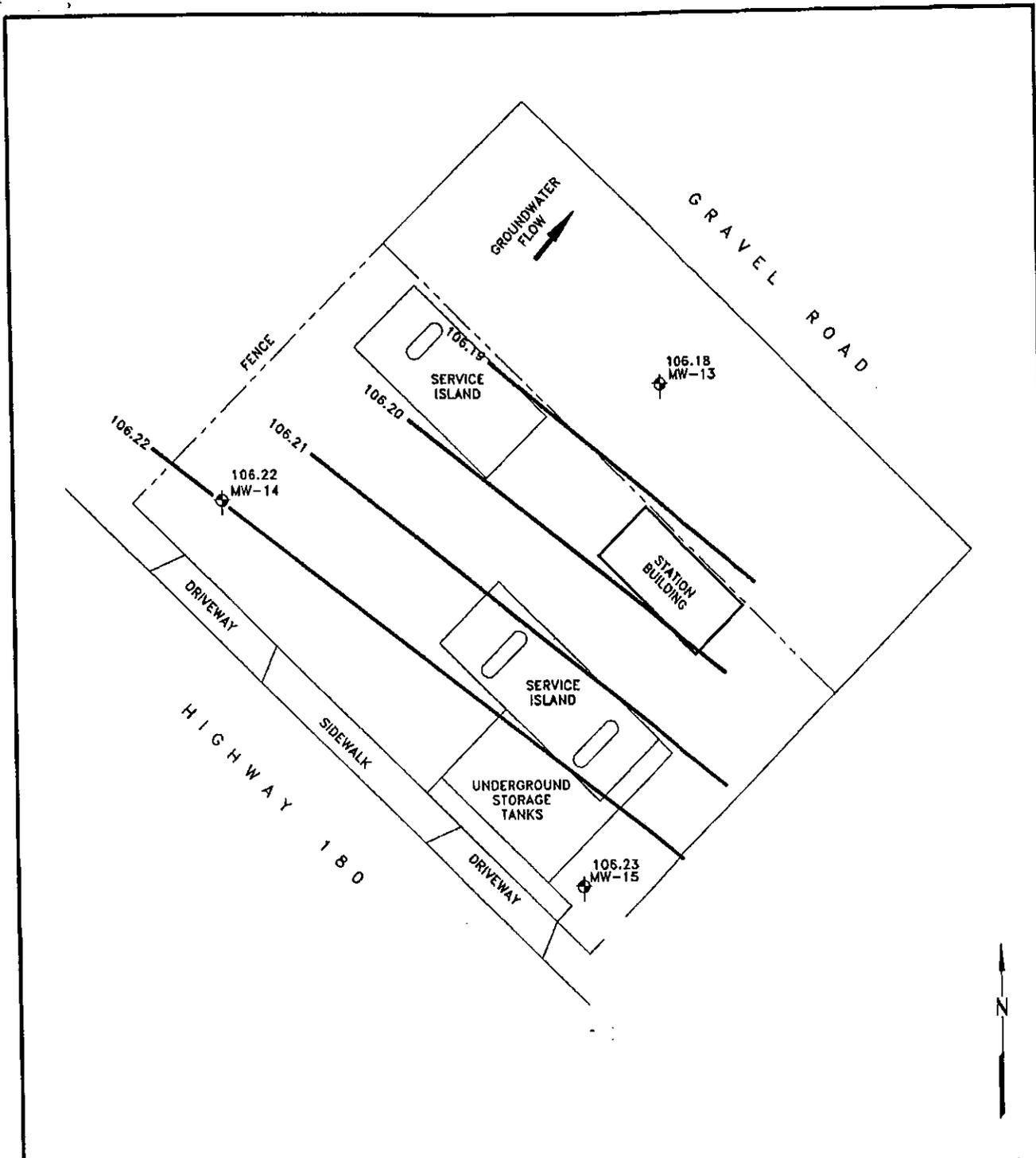


PLATE 5 - GROUNDWATER GRADIENT MAP (10/13/93)

ULTRAMAR/BEACON STATION No. 363

BELMONT AVENUE AND HIGHWAY 180, MENDOTA, CA

JOB NO. 150024.00



**LEGEND:**

MW-3 MONITORING WELL

106.21 GROUNDWATER ELEVATION  
(CONTOUR INTERVAL = .01 FT.)

**SCALE IN FEET**

FN: 0194/0024S

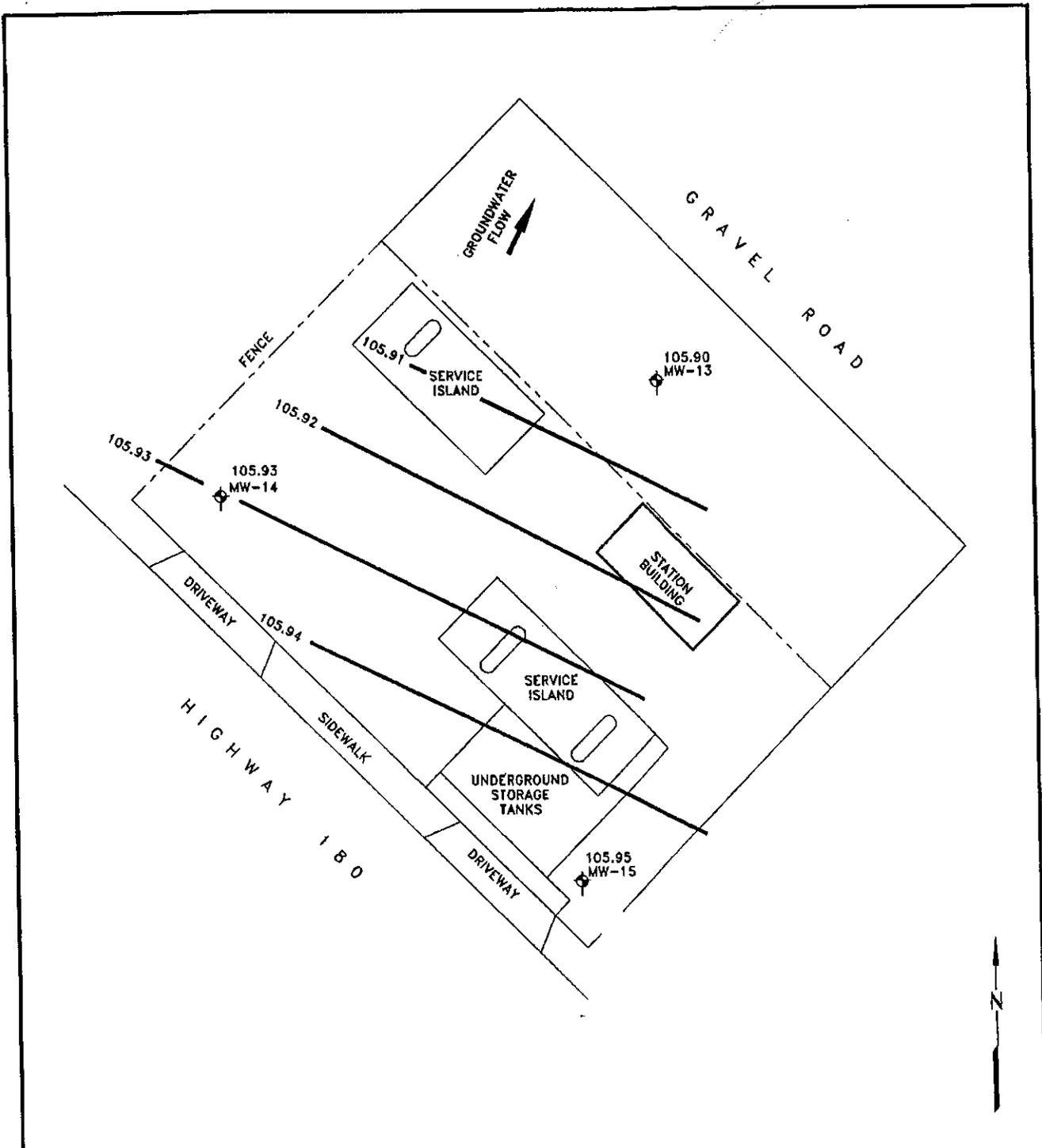
**REGNA**  
1710 MAIN STREET  
ESCALON, CA. 95320

PLATE 7 - GROUNDWATER GRADIENT MAP (10/19/93)

ULTRAMAR/BEACON STATION No. 363

BELMONT AVENUE AND HIGHWAY 180, MENDOTA, CA

JOB NO. 150024.00



**LEGEND:**

MW-3 MONITORING WELL

105.93 GROUNDWATER ELEVATION  
(CONTOUR INTERVAL = .01 FT.)

**SCALE IN FEET**

0 40

FN: 0294/0024S

**RESNA**

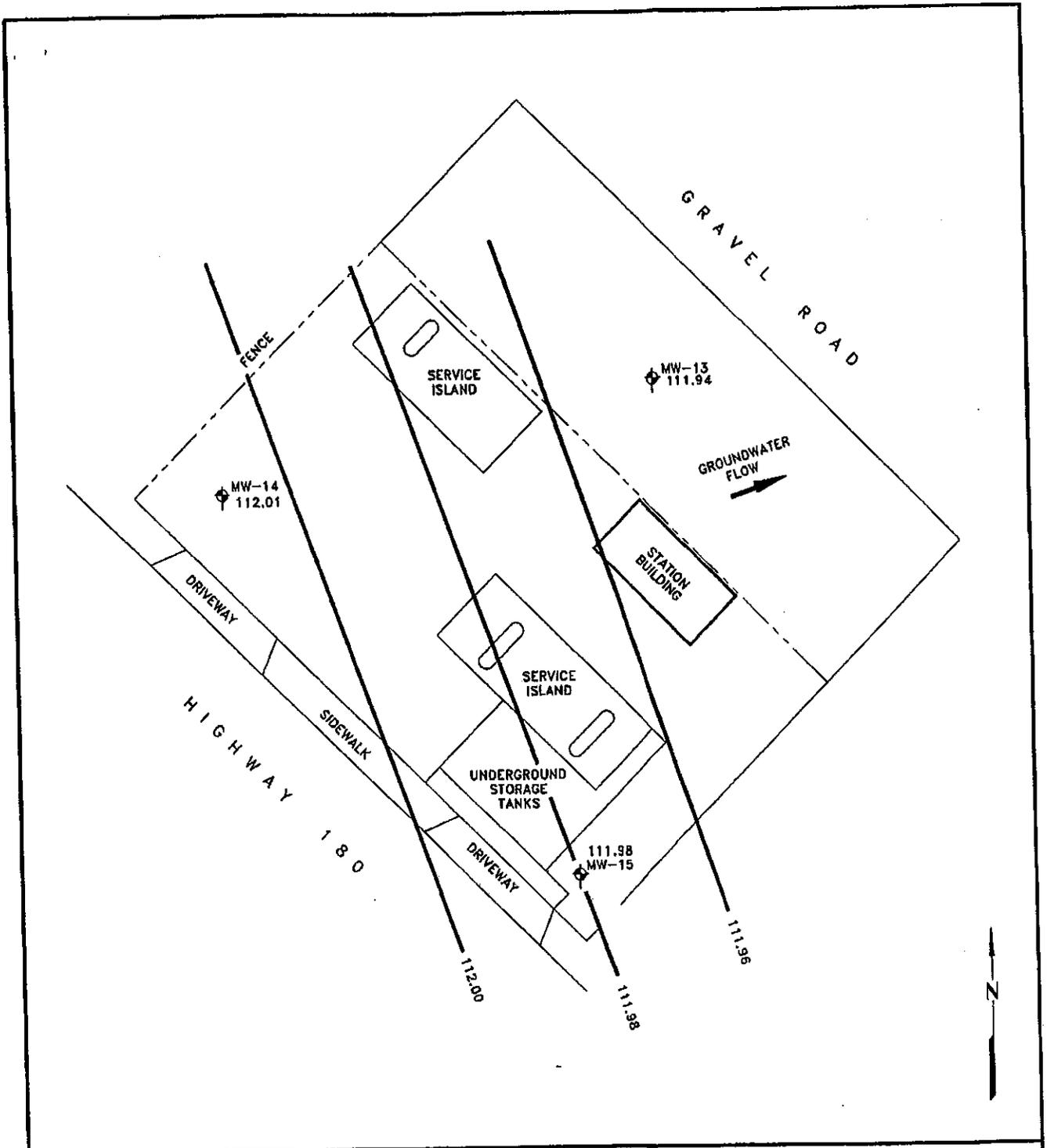
1710 MAIN STREET  
ESCALON, CA. 95320

PLATE 6 - GROUNDWATER GRADIENT MAP (10/18/93)

ULTRAMAR/BEACON STATION No. 363

BELMONT AVENUE AND HIGHWAY 180, MENDOTA, CA

JOB NO. 150024.00



**LEGEND:**

MW-3 MONITORING WELL

112.00 GROUNDWATER ELEVATION  
(CONTOUR INTERVAL = 0.02 FT)

**SCALE IN FEET**

FN: 0294/00245

**RESNA**  
1710 MAIN STREET  
ESCALON, CA. 95320

PLATE 8 - GROUNDWATER GRADIENT MAP (12/28/93)

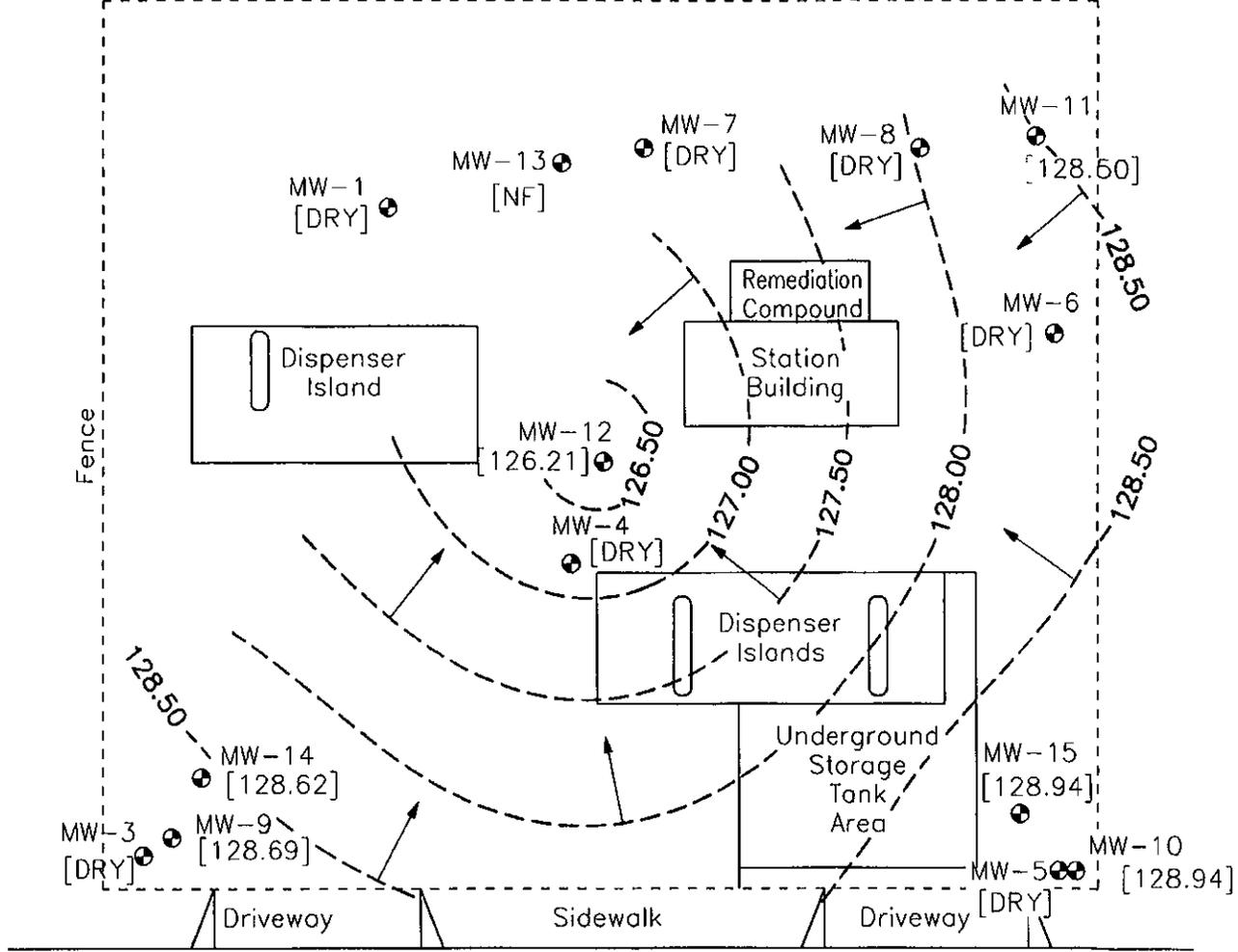
ULTRAMAR/BEACON STATION No. 363

BELMONT AVENUE AND HIGHWAY 180, MENDOTA, CA

JOB NO. 150024.00

Gravel Road

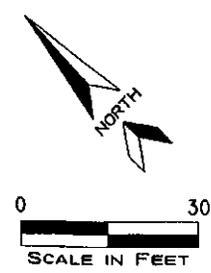
Approximate Property Boundary



OLLER STREET (S.R. 180)

EXPLANATION

- MW-14 ● Monitoring Well Location
- [128.62] Elevation of Ground Water Measured in Feet; Datum is Mean Sea Level
- [DRY] Well Dry
- 127.00— Line of Equal Elevation of Ground Water Measured in Feet; Datum is Mean Sea Level
- ↗ Inferred Direction of Ground Water Flow

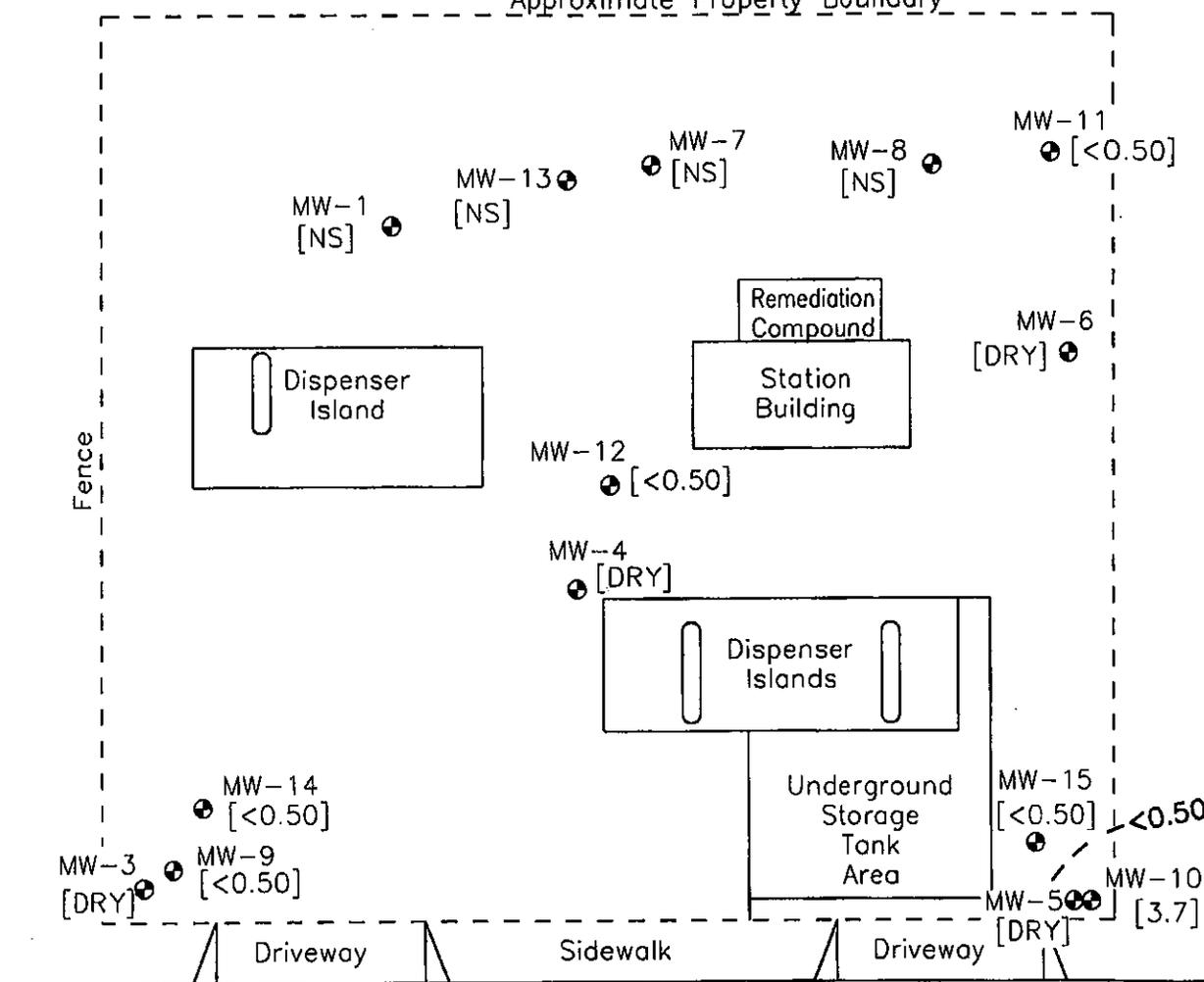


SOURCE: FIGURE MODIFIED FROM DRAWING PROVIDED BY HORIZON ENVIRONMENTAL, INC.

GROUND WATER CONTOUR MAP, MAY 14, 1998		FIGURE 2
BEACON STATION #363 1267 OLLER STREET MENDOTA, CALIFORNIA		PROJECT NUMBER: U005.01
EL DORADO ENVIRONMENTAL, INC.		DRAWN BY: D.A.V.D.
		CHECKED BY: D.V.D.

Gravel Road

Approximate Property Boundary



OLLER ROAD (S.R. 180)

### EXPLANATION

- MW-10 Monitoring Well Location
- [3.7] Dissolved Benzene Concentration in Ground Water in micrograms/Liter
- [DRY] Well Dry
- [NS] Well Not Sampled
- Inferred Benzene Isoconcentration Line in micrograms/Liter



SOURCE: FIGURE MODIFIED FROM DRAWING PROVIDED BY HORIZON ENVIRONMENTAL, INC.

DISSOLVED BENZENE DISTRIBUTION MAP, MAY 14, 1998	FIGURE 3
BEACON STATION #363 1267 OLLER STREET MENDOTA, CALIFORNIA	PROJECT NUMBER: U005.01
	DRAWN BY: D.A.V.D.
EL DORADO ENVIRONMENTAL, INC.	CHECKED BY: D.V.D.

**TABLE 1**  
**GROUND WATER ELEVATION DATA**  
**BEACON STATION #363**  
**1267 Oller Street, Mendota, California**  
**(Measurements in feet)**

Monitoring Well	Date	Reference Elevation (top of casing) <sup>1</sup>	Depth to Ground Water <sup>1</sup>	Ground Water Elevation <sup>2</sup>	Well Depth	Comments
MW-1	02/19/96 <sup>4</sup>	164.01			20.81	Well Not Located Well Not Located
	04/26/96 <sup>4</sup>				20.77	
	08/05/96 <sup>4</sup>				20.79	
	12/21/96 <sup>4</sup>		---	---	---	
	03/28/97 <sup>4</sup>		---	---	---	
	06/27/97 <sup>4</sup>				18.61	
	12/07/97 <sup>3</sup>					
	02/24/98 <sup>3</sup>					
MW-3	02/19/96 <sup>4</sup>	164.22			29.24	
	04/26/96 <sup>4</sup>				29.24	
	08/05/96 <sup>4</sup>				29.25	
	12/21/96 <sup>4</sup>				29.21	
	03/28/97 <sup>4</sup>				29.20	
	06/27/97 <sup>4</sup>				19.21	
	12/07/97 <sup>4</sup>				29.23	
	02/24/98 <sup>4</sup>				29.21	
05/14/98 <sup>4</sup>			29.24			
MW-4	02/19/96 <sup>4</sup>	163.39			27.65	
	04/26/96 <sup>4</sup>				27.69	
	08/05/96 <sup>4</sup>				27.65	
	12/21/96 <sup>4</sup>				27.55	
	03/28/97 <sup>4</sup>				27.56	
	06/27/97 <sup>4</sup>				27.54	
	12/07/97 <sup>4</sup>				27.58	
	02/24/98 <sup>4</sup>				27.59	
05/14/98 <sup>4</sup>			27.58			
MW-5	02/19/96 <sup>4</sup>	163.93			16.42	
	04/26/96 <sup>4</sup>				16.58	
	08/05/96 <sup>4</sup>				16.55	
	12/21/96 <sup>4</sup>				16.58	
	03/28/97 <sup>4</sup>				16.59	
	06/27/97 <sup>4</sup>				16.57	
	12/07/97 <sup>4</sup>				16.82	
	02/24/98 <sup>4</sup>				16.79	
05/14/98 <sup>4</sup>			16.51			
MW-7	02/19/96 <sup>4</sup>	164.18			28.11	Well Not Located Well Not Located
	04/26/96 <sup>4</sup>				28.14	
	08/05/96 <sup>4</sup>				28.16	
	12/21/96		---	---	---	
	03/28/97		---	---	---	
	06/27/97 <sup>4</sup>				28.11	
	12/07/97 <sup>4</sup>				28.03	
	02/24/98 <sup>4</sup>				28.00	
05/14/98 <sup>4</sup>			28.03			

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top of well casing.  
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3 = Well Not Measured on This Date.  
4 = Well Dry on This Date.  
Well Depth = Measurement from top of casing to bottom of well.

**TABLE 1**  
**GROUND WATER ELEVATION DATA**  
**BEACON STATION #363**  
**1267 Oller Street, Mendota, California**  
**(Measurements in feet)**

Monitoring Well	Date	Reference Elevation (top of casing) <sup>1</sup>	Depth to Ground Water <sup>2</sup>	Ground Water Elevation <sup>3</sup>	Well Depth	Comments		
MW-8	02/19/96 <sup>4</sup>	164.07			28.96	Well Not Located Well Not Located		
	04/26/96 <sup>4</sup>			28.95				
	08/05/96 <sup>4</sup>			28.96				
	12/21/96		---	---				
	03/28/97		---	---				
	06/27/97 <sup>4</sup>			28.95				
	12/07/97 <sup>4</sup>			28.96				
	02/24/98 <sup>4</sup>			28.98				
	05/14/98 <sup>4</sup>			29.01				
MW-9	07/18/95 <sup>4</sup>	163.06	---	---	48.84			
	10/25/95		46.08	116.98	48.85			
	02/19/96	164.05	41.37	122.68	48.92			
	04/26/96		40.04	124.01	48.91			
	08/05/96		40.43	123.62	48.90			
	12/21/96		39.00	125.05	48.92			
	03/28/97		36.36	127.69	48.91			
	06/27/97		38.72	125.33	48.90			
	12/07/97		40.17	123.88	48.84			
	02/24/98		37.63	126.43	48.84			
	05/14/98		35.36	128.69	48.84			
	MW-10	07/18/95	163.11	49.20	113.91		52.69	
		10/25/95		45.98	117.13		52.83	
02/19/96		164.16	41.26	122.90	52.77			
04/26/96			39.82	124.34	52.75			
08/05/96			40.53	123.63	52.73			
12/21/96			38.76	125.40	52.73			
03/28/97			36.20	127.96	53.75			
06/27/97			39.33	124.83	53.71			
12/07/97			40.14	124.02	52.68			
02/24/98			37.43	126.73	52.68			
05/14/98			35.22	128.94	52.68			
MW-11	07/18/95	162.98	48.57	114.41	51.62	Well Not Located Well Not Located		
	10/25/95		45.66	117.32	51.65			
	02/19/96	163.93	41.34	122.59	51.92			
	04/26/96		40.03	123.90	51.96			
	08/05/96		41.21	122.72	51.94			
	12/21/96		---	---	---			
	03/28/97		---	---	---			
	06/27/97		40.28	123.65	51.87			
	12/07/97		40.16	123.77	51.62			
	02/24/98		37.58	126.35	51.62			
	05/14/98		35.43	128.50	51.62			

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top of well casing  
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Well Depth = Measurement from top of casing to bottom of well.

**TABLE 1**  
**GROUND WATER ELEVATION DATA**  
**BEACON STATION #363**  
**1267 Oller Street, Mendota, California**  
**(Measurements in feet)**

Monitoring Well	Date	Reference Elevation (top of casing) <sup>1</sup>	Depth to Ground Water <sup>1</sup>	Ground Water Elevation <sup>2</sup>	Well Depth	Comments	
MW-12	07/18/95	162.45	50.24	112.21	52.46		
	10/25/95		47.31	115.14	52.42		
	02/19/96	162.70	42.56	120.14	52.50		
	04/26/96		41.27	121.43	52.50		
	08/05/96		42.29	120.41	52.51		
	12/21/96		39.85	122.85	52.51		
	03/28/97		37.49	125.21	51.93		
	06/27/97		40.97	121.73	51.92		
	12/07/97		41.21	121.49	52.46		
	02/24/98		38.68	124.02	52.46		
	05/14/98		36.49	126.21	52.46		
	MW-13	10/12/93		57.22	---	---	
		12/28/93	163.12	51.18	111.94	77.90	
01/25/94			49.85	113.27	77.18		
04/11/94			52.22	110.90	77.20		
07/18/94			60.52	102.60	---		
10/19/94			64.13	98.99	76.98		
01/17/95			57.89	105.23	77.00		
04/18/95			51.36	111.76	77.00		
07/18/95			48.32	114.80	77.00		
10/25/95			45.23	117.89	77.00		
02/19/96		163.74	41.52	122.22	77.33		
04/26/96			39.88	123.86	77.41		
08/05/96			42.30	121.44	77.43		
12/21/96			---	---	---	Well Not Located	
03/28/97			---	---	---	Well Not Located	
06/27/97			---	---	---	Well Not Located	
12/07/97			---	---	---	Well Not Located	
02/24/98			---	---	---	Well Not Located	
05/14/98		---	---	---	Well Not Located		
MW-14	10/12/93		57.64	---	---		
	12/28/93	163.57	51.56	112.01	75.66		
	01/25/94		50.22	113.35	75.34		
	04/11/94		52.70	110.87	75.34		
	07/18/94		61.22	102.35	---		
	10/19/94		64.75	98.82	75.17		
	01/17/95		58.21	105.36	75.17		
	04/18/95		51.69	111.88	75.15		
	07/18/95		48.67	114.90	75.15		
	10/25/95		45.58	117.99	75.17		
	02/19/96	163.57	41.58	121.99	75.20		
	04/26/96		39.93	123.64	75.22		
	08/05/96		42.47	121.10	75.20		
	12/21/96		38.14	125.43	75.20		
	03/28/97		36.17	127.40	75.18		
	06/27/97		43.43	120.14	75.18		
12/07/97		39.55	124.02	75.63			
02/24/98		36.95	126.62	75.63			
05/14/98		34.95	128.62	75.63			

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top of well casing.  
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**TABLE 1**  
**GROUND WATER ELEVATION DATA**  
**BEACON STATION #363**  
**1267 Oller Street, Mendota, California**  
**(Measurements in feet)**

Monitoring Well	Date	Reference Elevation (top of casing) <sup>1</sup>	Depth to Ground Water <sup>1</sup>	Ground Water Elevation <sup>2</sup>	Well Depth	Comments
MW-15	10/12/93	163.56	57.61	---	---	
	12/28/93		51.58	111.98	75.30	
	01/25/94		50.26	113.30	74.95	
	04/11/94		52.61	110.95	74.96	
	07/18/94	163.54	60.82	102.72	---	
	10/19/94		64.51	99.03	74.80	
	01/17/95		58.06	105.48	74.80	
	04/18/95		51.71	111.83	74.81	
	07/18/95	163.78	48.71	114.83	74.82	
	10/25/95		45.70	117.84	74.81	
	02/19/96		41.51	122.27	74.68	
	04/26/96		39.87	123.91	74.68	
	08/05/96	163.78	42.27	121.51	74.65	
	12/21/96		38.17	125.61	74.65	
	03/28/97		36.07	127.71	74.68	
	06/27/97		42.95	120.83	74.68	
	12/07/97	163.78	39.45	124.33	75.36	
	02/24/98		36.85	126.93	75.36	
	05/14/98		34.84	128.94	75.36	

- NOTES: 1 = Measurement and reference elevation taken from notch/mark on top of well casing.  
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**TABLE 2**  
**GROUND WATER ANALYTICAL RESULTS**  
**BEACON STATION #363**  
**1267 Oller Street, Mendota, California**  
**(All results in micrograms per Liter)**

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics				
		Gasoline	MTBE <sup>1</sup>	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-1	02/19/96 <sup>2</sup> 04/26/96 <sup>2</sup> 08/05/96 <sup>2</sup> 12/21/96 <sup>2</sup> 03/28/97 <sup>2</sup> 06/27/97 <sup>2</sup> 12/07/97 <sup>2</sup> 02/24/98 <sup>2</sup> 05/14/98 <sup>2</sup>						
MW-3	02/19/96 <sup>2</sup> 04/26/96 <sup>2</sup> 08/05/96 <sup>2</sup> 12/21/96 <sup>2</sup> 03/28/97 <sup>2</sup> 06/27/97 <sup>2</sup> 12/07/97 <sup>2</sup> 02/24/98 <sup>2</sup> 05/14/98 <sup>2</sup>						
MW-4	02/19/96 <sup>2</sup> 04/26/96 <sup>2</sup> 08/05/96 <sup>2</sup> 12/21/96 <sup>2</sup> 03/28/97 <sup>2</sup> 06/27/97 <sup>2</sup> 12/07/97 <sup>2</sup> 02/24/98 <sup>2</sup> 05/14/98 <sup>2</sup>						
MW-5	02/19/96 <sup>2</sup> 04/26/96 <sup>2</sup> 08/05/96 <sup>2</sup> 12/21/96 <sup>2</sup> 03/28/97 <sup>2</sup> 06/27/97 <sup>2</sup> 12/07/97 <sup>2</sup> 02/24/98 <sup>2</sup> 05/14/98 <sup>2</sup>						
MW-7	02/19/96 <sup>2</sup> 04/26/96 <sup>2</sup> 08/05/96 <sup>2</sup> 12/21/96 <sup>2</sup> 03/28/97 <sup>2</sup> 06/27/97 <sup>2</sup> 12/07/97 <sup>2</sup> 02/24/98 <sup>2</sup> 05/14/98 <sup>2</sup>						

NOTE: MTBE<sup>1</sup> = Methyl-Tertiary-Butyl Ether.  
2 = Well not sampled on this date.  
< = Below indicated detection limit.  
\* = Not typical gasoline.

**TABLE 2**  
**GROUND WATER ANALYTICAL RESULTS**  
**BEACON STATION #363**  
**1267 Oller Street, Mendota, California**  
**(All results in micrograms per Liter)**

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics				
			Gasoline	MTBE <sup>1</sup>	Benzene	Toluene	Ethylbenzene
MW-8	02/19/96 <sup>2</sup>						
	04/26/96 <sup>2</sup>						
	08/05/96 <sup>2</sup>						
	12/21/96 <sup>2</sup>						
	03/28/97 <sup>2</sup>						
	06/27/97 <sup>2</sup>						
	12/07/97 <sup>2</sup>						
	02/24/98 <sup>2</sup>						
	05/14/98 <sup>2</sup>						
MW-9	07/18/95 <sup>2</sup>						
	10/25/95	<50		<0.50	<0.50	<0.50	<0.50
	02/19/96	<50		<0.50	<0.50	<0.50	<0.50
	04/26/96	<50		<0.50	<0.50	<0.50	<0.50
	08/05/96	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/21/96	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	03/28/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	06/27/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/07/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	02/24/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
05/14/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50	
MW-10	07/18/95	1,000		65	3.3	78	28
	10/25/95	1,100		50	63	53	200
	02/19/96	2,800		300	310	130	510
	04/26/96	16,000		1,500	1,300	1,500	3,900
	08/05/96	12,000	<130	1,900	46	1,800	770
	12/21/96	260	<5.0	18	9.9	8.0	25
	03/28/97	70	<5.0	1.5	<0.50	<0.50	0.71
	06/27/97	21,000	<100	1,300	18	3,900	340
	12/07/97	180	<5.0	28	2.3	5.8	5.0
	02/24/98	130	<5.0	7.6	<0.50	<0.50	<0.50
05/14/98	120	<5.0	3.7	1.3	<0.50	11	
MW-11	07/18/95	<50		<0.50	<0.50	<0.50	<0.50
	10/25/95	<50		<0.50	<0.50	<0.50	<0.50
	02/19/96	<50		<0.50	<0.50	<0.50	2.0
	04/26/96	<50		<0.50	<0.50	<0.50	<0.50
	08/05/96	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/21/96 <sup>2</sup>						
	03/28/97 <sup>2</sup>						
	06/27/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/07/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	02/24/98	<50	<5.0	<0.50	<0.50	<0.50	0.68
05/14/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50	

NOTE: MTBE<sup>1</sup> = Methyl-Tertiary-Butyl Ether.  
<sup>2</sup> = Well not sampled on this date.  
< = Below indicated detection limit.  
\* = Not typical gasoline.

**TABLE 2**  
**GROUND WATER ANALYTICAL RESULTS**  
**BEACON STATION #363**  
**1267 Oller Street, Mendota, California**  
**(All results in micrograms per Liter)**

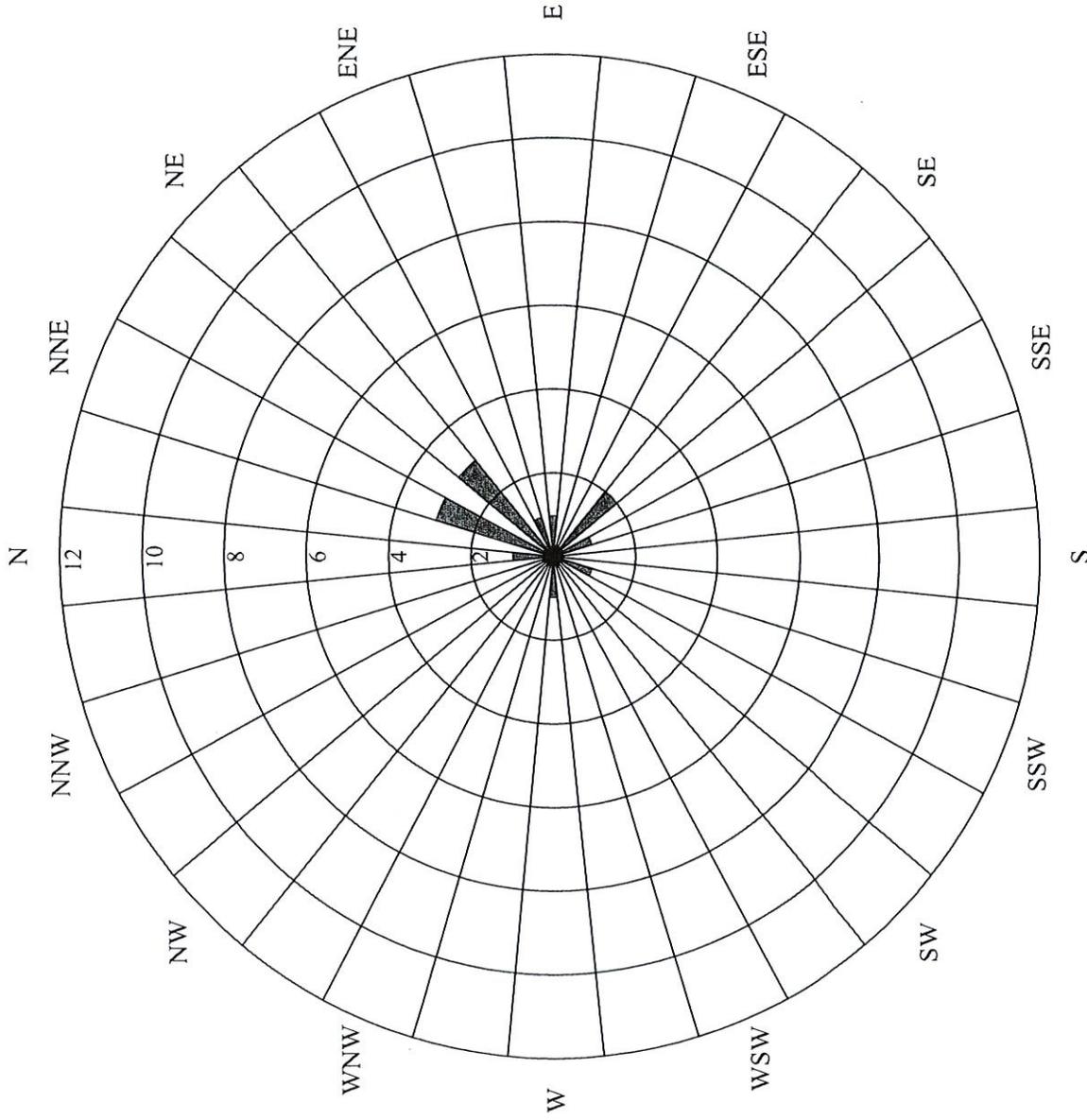
Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics				
		Gasoline	MTBE <sup>1</sup>	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-12	07/18/95	<50		<0.50	<0.50	<0.50	<0.50
	10/25/95	<50		<0.50	<0.50	<0.50	<0.50
	02/19/96	220		21	36	7.3	49
	04/26/96	710		86	97	54	90
	08/05/96	320	<5.0	16	21	12	24
	12/21/96	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	03/28/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	06/27/97	110	<5.0	<0.50	0.51	1.1	1.4
	12/07/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	02/24/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	05/14/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
MW-13	10/12/93	50		0.80	1.3	0.89	6.7
	12/28/93	<50		<0.5	<0.5	<0.5	<0.5
	01/25/94	<50		<0.5	<0.5	<0.5	<0.5
	04/11/94	<50		<0.5	<0.5	<0.5	<0.5
	07/18/94	73		<0.5	0.60	<0.5	1.1
	10/19/94	<50		<0.5	<0.5	<0.5	<0.5
	01/17/95	<50		<0.5	<0.5	<0.5	<0.5
	04/18/95	<50		<0.5	<0.5	<0.5	<0.5
	07/18/95	<50		<0.50	<0.50	<0.50	<0.50
	10/25/95	<50		<0.50	<0.50	<0.50	<0.50
	02/19/96	480*		<1.3	<1.3	<1.3	1.4
	04/26/96	95*		<0.50	<0.50	<0.50	<0.50
	08/05/96	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/21/96 <sup>2</sup>						
	03/28/97 <sup>2</sup>						
	06/27/97 <sup>2</sup>						
12/07/97 <sup>2</sup>							
02/24/98 <sup>2</sup>							
05/14/98 <sup>2</sup>							
MW-14	10/12/93	290		2.2	7.6	6.2	29
	12/28/93	<50		<0.5	<0.5	<0.5	<0.5
	01/25/94	71		<0.5	<0.5	<0.5	<0.5
	04/11/94	55		<0.5	<0.5	<0.5	<0.5
	07/18/94	<50		<0.5	<0.5	<0.5	<0.5
	10/19/94	<50		0.97	<0.5	<0.5	<0.5
	01/17/95	<50		<0.5	<0.5	<0.5	<0.5
	04/18/95	<50		<0.5	<0.5	<0.5	<0.5
	07/18/95	<50		<0.50	<0.50	<0.50	<0.50
	10/25/95	<50		<0.50	<0.50	<0.50	<0.50
	02/19/96	1,100*		<1.3	<1.3	<1.3	1.5
	04/26/96	140		<0.50	<0.50	<0.50	0.82
	08/05/96	57*	<5.0	<0.50	<0.50	<0.50	<0.50
	12/21/96	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	03/28/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	06/27/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
12/07/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50	
02/24/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50	
05/14/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50	

NOTE: MTBE<sup>1</sup> = Methyl-Tertiary-Butyl Ether.  
<sup>2</sup> = Well not sampled on this date.  
< = Below indicated detection limit.  
\* = Not typical gasoline.

**TABLE 2**  
**GROUND WATER ANALYTICAL RESULTS**  
**BEACON STATION #363**  
**1267 Oller Street, Mendota, California**  
**(All results in micrograms per Liter)**

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics					
			Gasoline	MTBE <sup>1</sup>	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-15	10/12/93	10,000			820	58	840	870
	12/28/93	90			1.4	1.0	<0.5	1.7
	01/25/94	74			<0.5	<0.5	<0.5	<0.5
	04/11/94	2,500			1,000	41	260	310
	07/18/94	9,800			1,700	96	850	740
	10/19/94	9,300			2,400	100	880	850
	01/17/95	140			2.7	2.1	5.4	13
	04/18/95	330			15	54	1.9	73
	07/18/95	190			13	54	3.7	38
	10/23/95	<50			<0.50	<0.50	<0.50	<0.50
	02/19/96	1,300*			11	12	2.0	20
	04/26/96	200			6.6	5.3	1.5	10
	08/05/96	140	<5.0		6.8	1.5	1.9	6.4
	12/21/96	<50	<5.0		<0.50	<0.50	<0.50	<0.50
	03/28/97	<50	<5.0		<0.50	<0.50	<0.50	<0.50
	06/27/97	730	<25		49	12	120	250
	12/07/97	<50	<5.0		0.67	4.0	0.71	4.2
	02/24/98	<50	<5.0		<0.50	<0.50	<0.50	<0.50
05/14/98	<50	<5.0		<0.50	<0.50	<0.50	<0.50	

NOTE: MTBE<sup>1</sup> = Methyl-Tertiary-Butyl Ether.  
2 = Well not sampled on this date.  
< = Below indicated detection limit.  
\* = Not typical gasoline.



GROUNDWATER FLOW DIRECTION ROSE DIAGRAM

GONZALES MINI MART

1278 OLLER ST

MENDOTA, CALIFORNIA

**ASR Engineering, Inc.**

GEOTECHNICAL • ENVIRONMENTAL • CONSTRUCTION TESTING  
3629 W Gettysburg Ave, Fresno, CA 93722

# GONZALES SITE at 1278 OLLER STREET

<b>Groundwater Gradient and Flow Direction for all the Monitoring Events to Date</b>		
<b>Date</b>	<b>Gradient (Ft./Ft.)</b>	<b>Direction</b>
06/30/2010	0.0145	North-northeast
05/18/2011	0.0015	South-southwest
06/27/2011	0.0019	Northeast
08/17/2011	0.0016	Northeast
11/09/2011	0.0044	East-northeast
02/21/2012	0.0124	East
05/22/2012	0.0125	West
11/29/2012	0.0050	North
02/28/2013	0.0019	North-northeast
05/29/2013	0.0140	South-southwest
08/20/2013	0.0213	Southeast
02/25/2014	0.0046	Northeast
04/17/2014	0.016	Southeast
08/19/2014	0.012	Southeast
12/17/2014	0.0107	North-northeast

### 3.2 Purging of Monitoring Wells and Groundwater Sampling

The wells were purged prior to sampling to remove water from the well casing and formation surrounding the well screen. Equipment used for purging was thoroughly decontaminated between wells. Well purging was performed by means of a pump and/or a bailer. Monitoring of water turbidity and measurements of water temperature, Total Dissolved Solids (TDS), pH and conductivity were recorded as the well purging progressed. Well purging continued until measurements of these parameters fairly stabilized. As a result, at least four well (4) volumes were purged from each well. At the completion of well purging, a clean bailer was used for collecting a water sample from each well.

Groundwater samples were collected from monitoring wells in order of suspected ascending contaminant concentrations. Monitoring well field logs are presented in Appendix "A."

### 3.3 Subjective Analyses of Groundwater

Subsequent to recording groundwater elevation and well depth, water from each well was subjectively analyzed for floating product, product sheen, odor, color and clarity by lowering a clear Teflon bailer partially through the groundwater interface. Floating product was not encountered in the monitoring wells during this sampling event.

### 3.4 Groundwater Chemical Analyses Data

The groundwater samples, collected on December 17, 2014, from Monitoring Wells MW-1

**TABLE 1 CONTINUED**  
**GROUNDWATER LEVEL MEASUREMENT DATA AND SUMMARY OF GROUNDWATER CHEMICAL ANALYSES**  
**DATA BY EPA TEST METHODS 8015/8015B AND 8020/8021B**

Well ID TOC (ft.)	Date	DTW (ft.)	GWE (tbm)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TRPH (µg/L)
<b>MW-3</b>											
100.40	06/30/2010	41.23	59.17	<0.50	8.4	<0.50	2.8	2.3	290	<50	<1.0
	05/18/2011	34.87	65.53	<5.0#	<5.0##	<5.0##	<5.0##	<5.0##	<500##	23,000*	-
	08/17/2011	33.91	66.49	<0.50	<0.50	<0.50	<0.50	<0.50	94	<50	-
	11/09/2011	32.14	68.23	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-
	02/21/2012	30.37	70.03	-	-	-	-	-	-	-	-
	05/22/2012	33.24	67.16	<0.50	2.7	1.5	<0.50	<0.50	<50	<50	-
	11/29/2012	36.21	64.19	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-
	02/28/2013	35.36	65.04	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-
	05/15/2013	36.77	63.63	<0.50	4.7	<0.50	2.0	<0.50	56	69*	-
	08/20/2013	40.60	59.80	<0.50	4.2	<0.50	1.3	<0.50	<50	<50	-
	02/25/2014	39.33	61.07	<0.50	<0.50	<0.50	<0.50	0.78	210	<50	-
	04/17/2014	40.77	59.63	<0.50	0.71	<0.50	<0.50	<0.50	<50	<50	-
	08/19/2014	46.97	53.43	<0.50	1.6	<0.50	0.94	<0.50	<50	<50	-
	<b>12/17/2014</b>	<b>46.28</b>	<b>54.12</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;50</b>	<b>140#</b>	-
<b>MW-4</b>											
100.65	06/27/2011	34.76	65.89	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	<5.0
	08/17/2011	34.35	66.30	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-
	11/09/2011	32.61	68.04	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-
	02/21/2012	31.11	69.54	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-
	05/22/2012	33.69	66.96	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-
	11/29/2012	36.94	63.71	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-
	02/28/2013	35.99	64.66	<0.50	7.1	<0.50	22	0.54	140	57*	-
	05/15/2013	34.47	66.18	<0.50	2.6	<0.50	9.3	<0.50	85	160*	-
	08/20/2013	41.25	59.40	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-
	02/25/2014	-	-	-	-	-	-	-	-	-	-
	04/17/2014	-	-	-	-	-	-	-	-	-	-
	08/19/2014	-	-	-	-	-	-	-	-	-	-
	<b>12/17/2014</b>	-	-	-	-	-	-	-	-	-	-

**TABLE 1 CONTINUED**  
**GROUNDWATER LEVEL MEASUREMENT DATA AND SUMMARY OF GROUNDWATER CHEMICAL ANALYSES**  
**DATA BY EPA TEST METHODS 8015/8015B AND 8020/8021B**

Well ID TOC (ft.)	Date	DTW (ft.)	GWE (tbm)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TRPH (µg/L)
<b>MW-5</b>											
100.55	06/27/2011	34.85	65.70	<10	1,200	<10	520	24	4,800	1,100*	<5.0
	08/17/2011	34.36	66.19	<10	910	<10	640	<10	4,800	1,200#	-
	11/09/2011	32.78	67.77	<2.5	530	<2.5	4.8	3.3	2,500	1,000#	-
	02/21/2012	31.04	69.51	<2.5	51	<2.5	28	<2.5	1,500	950*	-
	05/22/2012	33.25	67.30	<2.5	28	<2.5	42	<2.5	1,200	930*	-
	11/29/2012	36.82	63.73	<2.5	510	<2.5	34	<2.5	2,300	820#	-
	02/28/2013	35.80	64.75	<2.5	580	<2.5	110	<2.5	2,300	920*	-
	05/15/2013	37.05	63.50	<2.5	690	<2.5	42	2.7	2,300	960*	-
	08/20/2013	40.91	59.64	<1.0	5.8	<1.0	2.5	<1.0	1,200	610*	-
	02/25/2014	40.24	60.31	<1.0	19	<1.0	2.4	2.1	1,300	690*	-
	04/17/2014	41.35	59.20	<0.50	6.2	<0.50	1.4	<0.50	750	630*	-
	08/19/2014	47.17	53.38	3.7	49	0.57	5.4	2.4	820	680*	-
	<b>12/17/2014</b>	<b>47.48</b>	<b>53.07</b>	<b>&lt;0.50</b>	<b>18</b>	<b>0.73</b>	<b>3.7</b>	<b>8.4</b>	<b>550</b>	<b>500*</b>	-
<b>MW-6</b>											
99.97	04/11/2013	35.92	64.05	<50	320	2,700	1,500	5,500	36,000	5,700*	-
	05/15/2013	36.60	63.37	<25	330	1,900	1,100	4,00	29,000	7,000*	-
	08/20/2013	40.41	59.56	<25	1,000	76	2,100	3,600	29,000	6,700*	-
	02/25/2014	39.31	60.66	<25	120	54	490	560	7,400	1,400*	-
	04/17/2014	40.70	59.27	<10	240	31	670	590	8,200	1,300*	-
	08/19/2014	46.45	53.52	<10	150	10	650	240	7,100	2,600+	-
	<b>12/17/2014</b>	<b>46.63</b>	<b>53.34</b>	<b>&lt;5.0</b>	<b>94</b>	<b>118</b>	<b>360</b>	<b>230</b>	<b>3,300</b>	<b>1,500*</b>	-
<b>MW-7</b>											
100.31	04/11/2013	36.45	63.86	<50	1,200	470	1,100	1,300	11,000	1,700*	-
	05/15/2013	37.00	63.31	<10	910	<10	820	640	7,100	1,700*	-
	08/20/2013	40.90	59.41	<10	190	<10	830	19	4,500	1,500*	-
	02/25/2014	40.11	60.20	1.7	5.9	<0.50	0.66	1.9	340	94*	-
	04/17/2014	41.32	58.99	<2.5	220	<2.5	130	3.2	1,300	390*	-
	08/19/2014	47.17	53.14	<0.50	120	<0.50	1.5	0.83	720	120*	-
	<b>12/17/2014</b>	<b>47.26</b>	<b>53.05</b>	<b>&lt;0.50</b>	<b>1.2</b>	<b>0.51</b>	<b>&lt;0.50</b>	<b>1.0</b>	<b>260</b>	<b>190*</b>	-

**TABLE 1 CONTINUED**  
**GROUNDWATER LEVEL MEASUREMENT DATA AND SUMMARY OF GROUNDWATER CHEMICAL ANALYSES**  
**DATA BY EPA TEST METHODS 8015/8015B AND 8020/8021B**

Well ID TOC (ft.)	Date	DTW (ft.)	GWE (tbm)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TRPH (µg/L)
<b>MW-8</b>											
<b>100.07</b>	04/17/2014	40.95	59.12	<50	96	<50	2,600	3,300	40,000	10,000*	-
	08/19/2014	46.78	53.29	<50	120	<50	3,700	5,700	46,000	10,000*	-
	<b>12/17/2014</b>	<b>47.06</b>	<b>53.01</b>	<b>&lt;50</b>	<b>76</b>	<b>&lt;50</b>	<b>4,000</b>	<b>4,900</b>	<b>27,000</b>	<b>9,200*</b>	-
<b>MW-9</b>											
<b>100.57</b>	04/17/2014	42.31	58.26	<0.50	1.2	<0.50	<0.50	<0.50	500	410*	-
	08/19/2014	48.28	52.29	<0.50	<0.50	<0.50	<0.50	<0.50	<50	71*	-
	<b>12/17/2014</b>	<b>46.64</b>	<b>53.93</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;50</b>	<b>120*</b>	-
<b>DPE-1</b>											
<b>100.55</b>	06/30/2010	42.11	58.44	14	290	19	89	73	3,600	1,500*	<1.0
	05/18/2011	35.00	65.55	<0.50	<0.50	<0.50	<0.50	<0.50	<50	110**	-
	08/17/2011	34.27	66.28	<0.50	2.1	<0.50	<0.50	<0.50	260	180#	-
	11/09/2011	32.21	68.34	<0.50	<0.50	<0.50	<0.50	<0.50	110	100#	-
	02/21/2012	31.21	69.34	<0.50	<0.50	<0.50	<0.50	<0.50	74	93	-
	05/22/2012	34.36	66.19	<0.50	<0.50	<0.50	<0.50	<0.50	66	<50	-
	11/29/2012	36.78	63.77	<0.50	1.5	<0.50	<0.50	<0.50	190	340#	-
	02/28/2013	36.09	64.46	<0.50	13	<0.50	0.98	<0.50	150	170#	-
	05/15/2013	37.98	62.57	<0.50	24	<0.50	6.0	1.4	600	490*	-
	08/20/2013	42.02	58.53	<0.50	14	<0.50	16	0.54	940	770*	-
	02/25/2014	40.05	60.50	<2.5	220	7.7	41	35	1,300	230*	-
	04/17/2014	42.28	58.27	<1.0	11	<1.0	7.4	3.5	820	480*	-
	08/19/2014	47.88	52.67	<1.0	150	2.5	13	2.0	600	320*	-
	<b>12/17/2014</b>	<b>46.66</b>	<b>53.89</b>	<b>&lt;0.50</b>	<b>4.4</b>	<b>&lt;0.50</b>	<b>0.75</b>	<b>&lt;0.50</b>	<b>&lt;50</b>	<b>250*</b>	-
<b>DPE-2</b>											
<b>100.41</b>	06/27/2011	34.48	65.93	<0.50	2.4	4.5	2.1	4.9	160	140#	<5.0
	08/17/2011	34.05	66.36	<0.50	<0.50	<0.50	<0.50	<0.50	110	71#	-
	11/09/2011	32.38	68.03	<0.50	<0.50	<0.50	<0.50	<0.50	89	65#	-
	02/21/2012	30.91	69.50	1.1	<0.50	<0.50	<0.50	<0.50	80	60	-
	05/22/2012	33.35	67.06	<0.50	92	<0.50	21	<0.50	440	220#	-

**TABLE 1 CONTINUED**  
**GROUNDWATER LEVEL MEASUREMENT DATA AND SUMMARY OF GROUNDWATER CHEMICAL ANALYSES**  
**DATA BY EPA TEST METHODS 8015/8015B AND 8020/8021B**

Well ID TOC (ft.)	Date	DTW (ft.)	GWE (tbm)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TRPH (µg/L)
	11/29/2012	36.64	63.77	<0.50	34	<0.50	45	2.2	440	150#	-
	02/28/2013	35.69	64.72	<2.5	170	<2.5	220	5.9	1,900	550*	-
	05/15/2013	37.09	63.32	<0.50	30	<0.50	56	2.0	730	430*	-
	08/20/2013	40.91	59.50	<0.50	<0.50	<0.50	<0.50	0.84	120	76*	-
	02/25/2014	39.90	60.51	<0.50	<0.50	<0.50	<0.50	<0.50	140	95*	-
	04/17/2014	41.21	59.20	<0.50	<0.50	<0.50	<0.50	<0.50	73	94*	-
	08/19/2014	-	-	-	-	-	-	-	-	-	-
	12/17/2014	-	-	-	-	-	-	-	-	-	-

Results in microgram/Liter (µg/L) or parts per billion (ppb)

\* Non-diesel pattern, lighter hydrocarbons present

\*\* Non-diesel pattern, lighter hydrocarbons present, unidentified peaks within diesel range

† Non-diesel pattern, lighter and heavier hydrocarbons present

TOC = Top of Well Casing

DTW = Depth to Water

GWE = Groundwater Elevation

MTBE = Methyl-t-Butyl Ether

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total Xylenes

# Non-diesel pattern within diesel range

## Increased reporting limit due to matrix interference. Sample had a lot of foam.

TPH-G = Total Petroleum Hydrocarbons as Gasoline

TPH-D = Total Petroleum Hydrocarbons as Diesel

< = Below the detection limit

- = Not Applicable or not measured/sampled