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**PERJURY STATEMENT**

Subject: RINO PACIFIC/OAKLAND TRUCK STOP  
ACEHS Fuel Leak Case No. RO0000234  
1107 5<sup>th</sup> Street, Oakland, California

" I declare under penalty of perjury, that the information and/or recommendations in the attached document or report is true or correct to the best of my knowledge"



---

Mr. Reed Rinehart  
Rino Pacific, LLC  
2401 North State Street  
Ukiah, California 95482

3/23/2011

---

Date

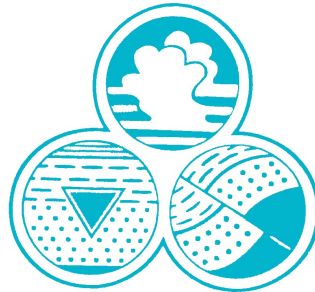
**Semi-Annual Groundwater Monitoring Report - Second Quarter 2013**  
**RINO PACIFIC/OAKLAND TRUCK STOP (ACHES Fuel Leak Case No. RO0000234)**  
**1107 5<sup>th</sup> Street, Oakland, California**

18 July 2013  
AGE Project No. 03-1101

*PREPARED FOR:*

Mr. Reed Rinehart  
RINO PACIFIC, LLC

*PREPARED BY:*



***Advanced GeoEnvironmental, Inc.***

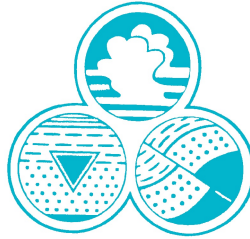
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**Semi-Annual Groundwater Monitoring Report - Second Quarter 2013**  
**RINO PACIFIC/OAKLAND TRUCK STOP (ACEHS Fuel Leak Case No. RO0000234)**  
**1107 5<sup>th</sup> Street, Oakland, California**

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Brian W. Millman  
Senior Project Geologist  
California Professional Geologist No. 8574

**PROJECT MANAGER:**

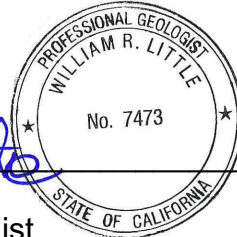
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Brian W. Millman  
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Senior Project Geologist  
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**Semi-Annual Groundwater Monitoring Report - Second Quarter 2013**  
**RINO PACIFIC/OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**

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**Semi-Annual Groundwater Monitoring Report - Second Quarter 2013**  
**RINO PACIFIC/OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**

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**Semi-Annual Groundwater Monitoring Report - Second Quarter 2013**  
**RINO PACIFIC/OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**

## **1.0. INTRODUCTION**

At the request of Rino Pacific LLC, *Advanced GeoEnvironmental, Inc.* (AGE) has prepared this *Semi-Annual Groundwater Monitoring Report - Second Quarter 2013* for the site located at 1107 5<sup>th</sup> Street, Oakland, California. This report presents the results of the second quarter 2013 groundwater monitoring and sampling event. The site and surrounding area are illustrated in Figure 1. On-site structures, soil borings, well locations and other features are illustrated in Figure 2. Site background information is provided in Appendix A.

The goals of the groundwater monitoring program are to assess site groundwater for seasonal variation of elevation, gradient, and flow direction, and to assess the impact of petroleum hydrocarbon compounds and fuel oxygenating compounds in shallow groundwater beneath the site. This report has been prepared in accordance with the Regional Water Quality Control Board's (RWQCB) *Appendix A - Reports, Tri-Regional Board Staff Recommendations for Preliminary Investigation and Evaluation of Underground Tank Sites*.

## **2.0. GROUNDWATER MONITORING AND SAMPLING**

On 22 May 2013, a groundwater monitoring and sampling event was conducted at the site. Depth to groundwater was measured in wells MW-1, MW-3N, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-13R, MW-14 and MW-15. On 22 May 2013, wells MW-5, MW-7, MW-8, and MW-14 were purged and sampled in accordance with the groundwater monitoring program approved by the ACEHS in an email, dated 20 March 2009. The groundwater monitoring program and groundwater sampling procedures are presented in Appendix B.

## **3.0. FINDINGS**

Groundwater elevation and flow direction at the site were determined from field data. Well construction details are presented in Table 1 and depth to groundwater measurements are summarized in Table 2. The hydrocarbon impact to groundwater was quantified by laboratory analysis of the groundwater samples. Analytical results are summarized in Table 3.

### 3.1. GROUNDWATER FLOW DIRECTION AND GRADIENT

The depth to groundwater was calculated by subtracting the depth to water from the surveyed casing elevation. Groundwater flow direction and gradient were inferred from the data collected.

On 22 May 2013, the depth to groundwater ranged between 2.36 feet (MW-10) and 6.20 feet (MW-7 and MW-13R) below the top of casing (btoc). Groundwater elevations at the site ranged between 5.21 feet (MW-7) and 7.06 feet (MW-10) above North American Vertical Datum 88 (NAVD88). The average groundwater elevation during the 22 May 2013 monitoring event was approximately 5.77 feet above NAVD88. Groundwater elevations have decreased approximately 0.58 feet since the previous monitoring event in November 2012. The GeoTracker confirmation number of the submitted depth to water electronic deliverable format data (EDD) file number is 2879407763.

Generally, on-site groundwater was inferred to be flowing toward the north and north-northeast at average hydraulic gradients ranging between 0.006 ft/ft and 0.013 ft/ft, toward a groundwater depression located in the northern portion of the site in the area of well MW-7; groundwater north of the site was inferred to be flowing towards the west-southwest at an average hydraulic gradient of 0.003 ft/ft, toward the groundwater depression (Figure 3). Depth to water and groundwater elevations are summarized in Table 2. Groundwater monitoring field logs are included in Appendix C.

### 3.2. GROUNDWATER ANALYTICAL RESULTS

The hydrocarbon-impact to groundwater was quantified by laboratory analysis of groundwater samples collected from wells MW-5, MW-7, MW-8, and MW-14 on 22 May 2013. The results are as follows:

- Total petroleum hydrocarbons quantified as gasoline (TPH-g) were detected in groundwater samples collected from wells MW-5, MW-7, MW-8, and MW-14 at concentrations of 19,000 micrograms per liter ( $\mu\text{g/l}$ ), 40,000  $\mu\text{g/l}$ , 1,400  $\mu\text{g/l}$ , and 5,000  $\mu\text{g/l}$ , respectively. The estimated lateral extent of dissolved TPH-g is illustrated in Figure 4.
- Total petroleum hydrocarbons quantified as diesel (TPH-d) were detected in groundwater samples collected from wells MW-5, MW-7, MW-8 and MW-14 at concentrations of 28,000  $\mu\text{g/l}$ , 43,000  $\mu\text{g/l}$ , 1,800  $\mu\text{g/l}$ , and 6,600  $\mu\text{g/l}$ , respectively. The estimated lateral extent of dissolved TPH-d is illustrated in Figure 5.
- Benzene toluene, ethylbenzene, and total xylenes (BTEX) were detected in groundwater samples collected from well MW-7 and MW-14 at maximum

concentrations of 740 µg/l, 12 µg/l, 7.4 µg/l, and 48.4 µg/l, respectively (MW-7).

- Methyl tertiary butyl ether (MTBE) was detected in groundwater samples collected from wells MW-5, MW-7, MW-8, and MW-14 at concentrations of 2.2 µg/l, 530 µg/l, 4.7 µg/l, and 62 µg/l, respectively. The estimated lateral extent of dissolved MTBE is illustrated in Figure 6.
- Tertiary-butyl alcohol (TBA) was detected in groundwater samples collected from wells MW-5, MW-7, and MW-8 at concentrations of 3,700 µg/l, 35,000 µg/l, and 2,800 µg/l, respectively. The estimated lateral extent of dissolved TBA is illustrated in Figure 7.

No other analytes were reported in groundwater samples collected during the May 2013 sampling event. Analytical results of groundwater samples are summarized in Table 3. The laboratory report (Cal Tech Environmental Laboratories Project. No. CT214-1305150), quality assurance/quality control report, and chain-of-custody form are included in Appendix D. The electronic deliverable format (EDF) files were uploaded to the State GeoTracker database.

#### **4.0. CONCLUSIONS**

Based upon the environmental activities completed, AGE concludes:

- On 22 May 2013, groundwater elevations at the site ranged between 5.21 feet (MW-7) and 7.06 feet (MW-10) above NAVD88. The average groundwater elevation during the 22 May 2013 monitoring event was approximately 5.77 feet above NAVD88. Groundwater elevations have decreased approximately 0.58 feet since the previous event in November 2012.
- Wells MW-5, MW-7, and MW-8 were previously sampled in November 2012. TPH-g, TPH-d, MTBE and TBA concentrations decreased in groundwater samples collected from wells MW-5, MW-7, and MW-8 compared to the previous sampling event, with the exception of MTBE in MW-5; concentrations of MTBE increased from non-detect to 2.2 µg/l. BTEX concentrations remained non-detect in wells MW-5 and MW-8, and decreased in well MW-7. Additionally, TAME concentrations remained non-detect in wells MW-5 and MW-8 and increased from non-detect to 11 µg/l in well MW-7 compared to the previous sampling event (Table 3, Figures 4 through 7).
- Well MW-14 was previously sampled in May 2012. TPH-g and TPH-d concentrations increased in groundwater samples collected from well MW-14. However, MTBE, BTEX, TBA and TAME all decreased compared to the previous



sampling event; TBA and TAME concentrations decreased to non-detect and MTBE decreased significantly (Table 3, Figures 4 through 7).

- Since the termination of ozone remediation at the site in January 2011, petroleum hydrocarbon and fuel oxygenating concentrations in selected wells had been increasing slightly (Table 3). However, similar fluctuations in hydrocarbon concentrations were observed between September 2005 and January 2011 during operation of the ozone remediation systems. Additionally, during the second quarter 2013 petroleum hydrocarbon and fuel oxygenating concentrations generally decreased, with the exception of TPH in well MW-14. Trend graphs depicting petroleum hydrocarbon concentrations versus time for wells MW-4, MW-5, MW-7, MW-8 and MW-14 are presented in Appendix E.

## **5.0. RECOMMENDATIONS**

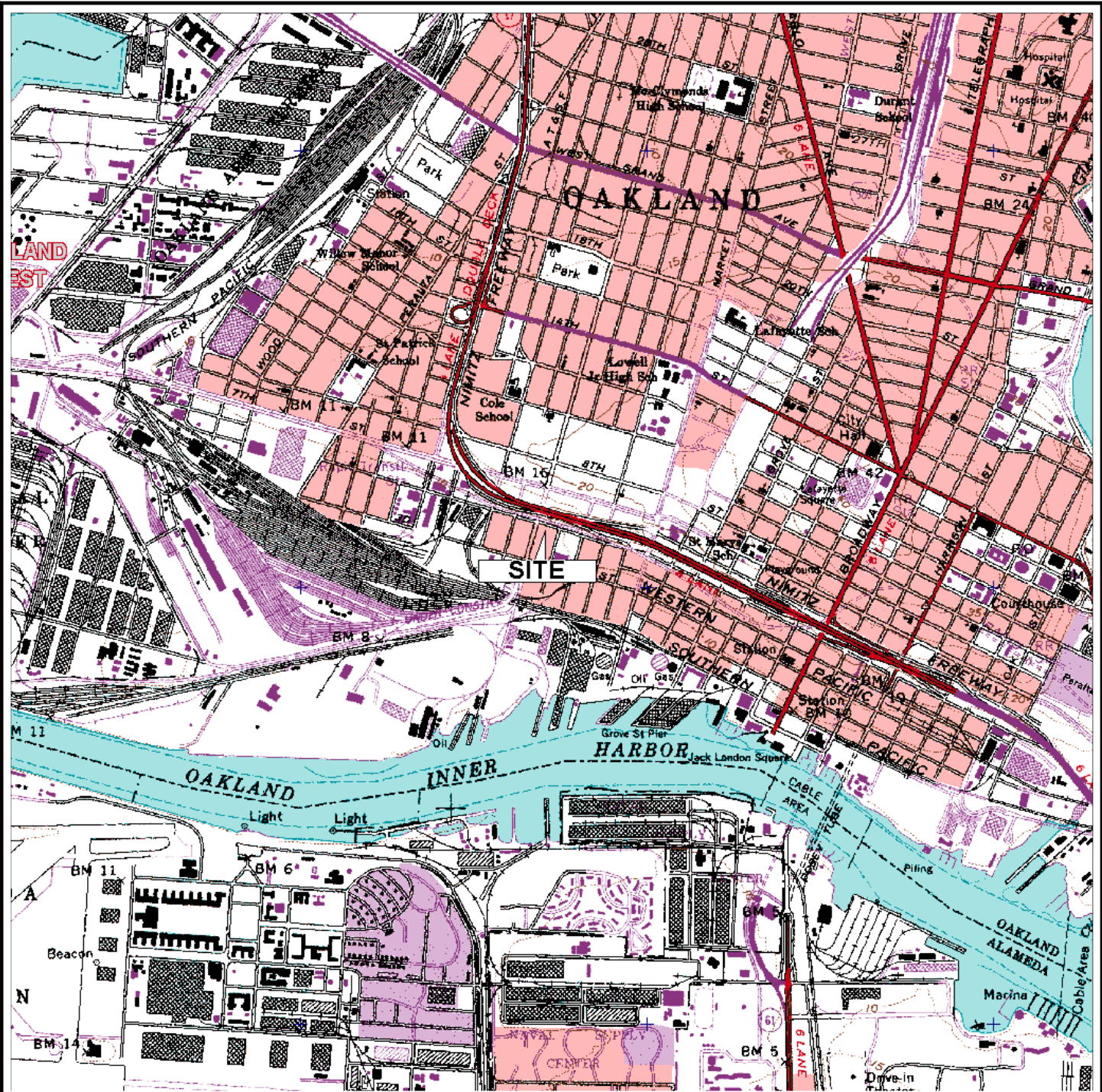
Based upon a review of the data collected at the site, AGE recommends:

- Continuation of the reduced, semi-annual groundwater monitoring schedule. The next semi-annual monitoring event will be scheduled for November 2013;
- Installation of one shallow-screened monitoring well (screen interval: 5-20 feet bsg) in the location of P-7 to assess the lateral extent of hydrocarbon-impacted groundwater in the northwestern portion of the site; the proposed location for an additional shallow-screened monitoring well is depicted in Figure 2; and
- Installation of three deep-screened monitoring wells (screen interval: 35-40 feet bsg) in the locations of P-7 (west end of site), P-1 (east end of site), and P-2 near the central northern area of the site, to assess the vertical extent of hydrocarbon-impacted groundwater at the site and characterize groundwater flow direction in deep groundwater at the site; proposed locations for deep-screened monitoring wells are depicted in Figure 2.

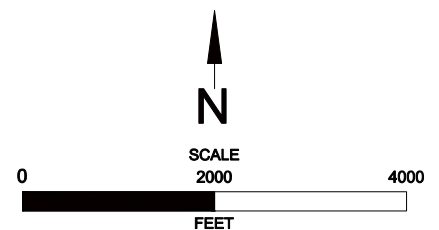
## **6.0. LIMITATIONS**

Our professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar localities. The findings were based upon field measurements and analytical results provided by an independent laboratory. Evaluations of the hydrogeologic conditions at the site for the purpose of this investigation are made from a limited number of available data points (i.e. groundwater samples) and subsurface conditions may vary away from these data points. No other warranty, expressed or implied, is made as to the professional interpretations, opinions and recommendations contained in this report.

# FIGURES



OAKLAND WEST QUADRANGLE, CALIFORNIA  
7.5 MINUTE SERIES (U.S. GEOLOGICAL SURVEY)



**LOCATION MAP**  
RINI PACIFIC/OAKLAND TRUCK STOP  
1107 5TH STREET  
OAKLAND, CALIFORNIA



*Advanced*  
**GeoEnvironmental, Inc.**  
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PROJECT NO. AGE-03-1101

FILE: LOCATION

FIGURE:

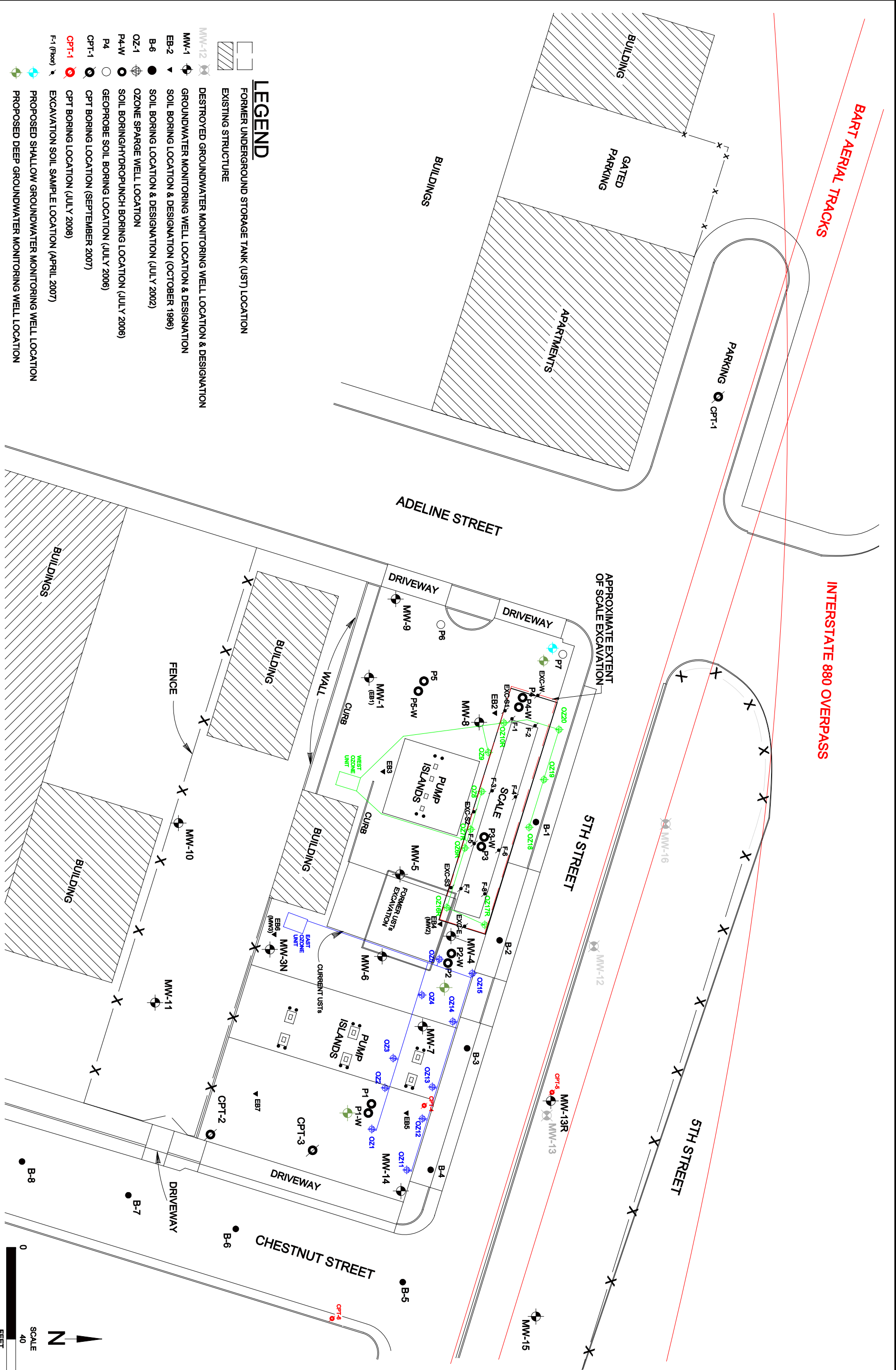
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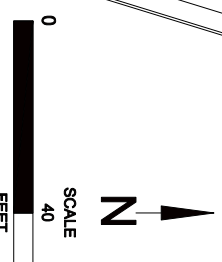
1

BART AERIAL TRACKS

INTERSTATE 880 OVERPASS



- ### LEGEND
- FORMER UNDERGROUND STORAGE TANK (UST) LOCATION
  - EXISTING STRUCTURE
  - DESTROYED GROUNDWATER MONITORING WELL LOCATION & DESIGNATION
  - GROUNDWATER MONITORING WELL LOCATION & DESIGNATION
  - SOIL BORING LOCATION & DESIGNATION (OCTOBER 1998)
  - SOIL BORING LOCATION & DESIGNATION (JULY 2002)
  - SOIL BORING LOCATION & DESIGNATION (JULY 2002)
  - SOIL BORING/HYDRO-PUNCH BORING LOCATION (JULY 2006)
  - GEOPROBE SOIL BORING LOCATION (JULY 2006)
  - CPT BORING LOCATION (SEPTEMBER 2007)
  - CPT BORING LOCATION (JULY 2008)
  - CPT BORING LOCATION (APRIL 2007)
  - PROPOSED SHALLOW GROUNDWATER MONITORING WELL LOCATION
  - PROPOSED DEEP GROUNDWATER MONITORING WELL LOCATION



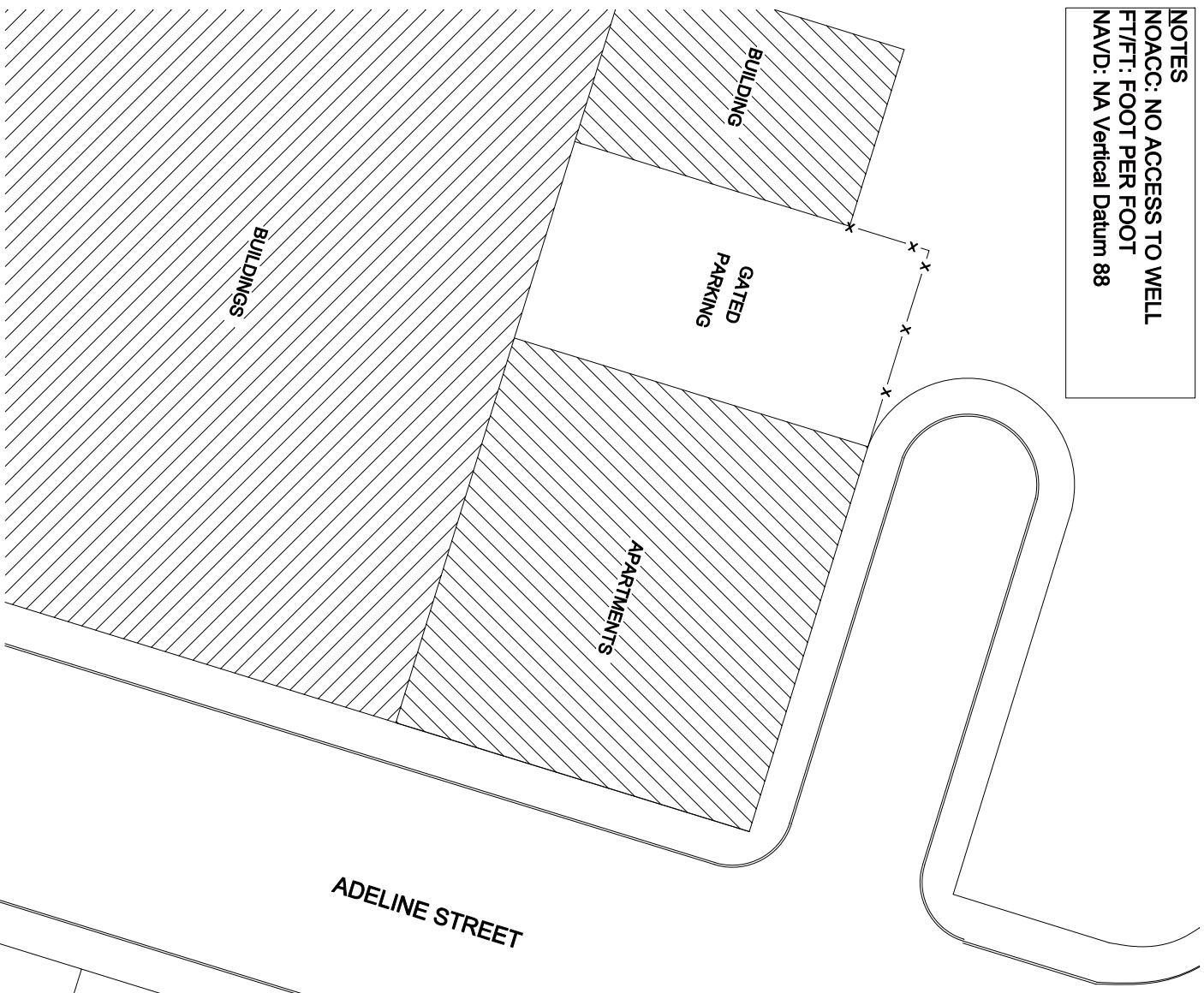
## SITE PLAN

RINO PACIFIC/OAKLAND TRUCK STOP  
1107 5TH STREET  
OAKLAND, CALIFORNIA

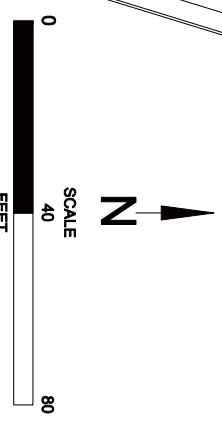
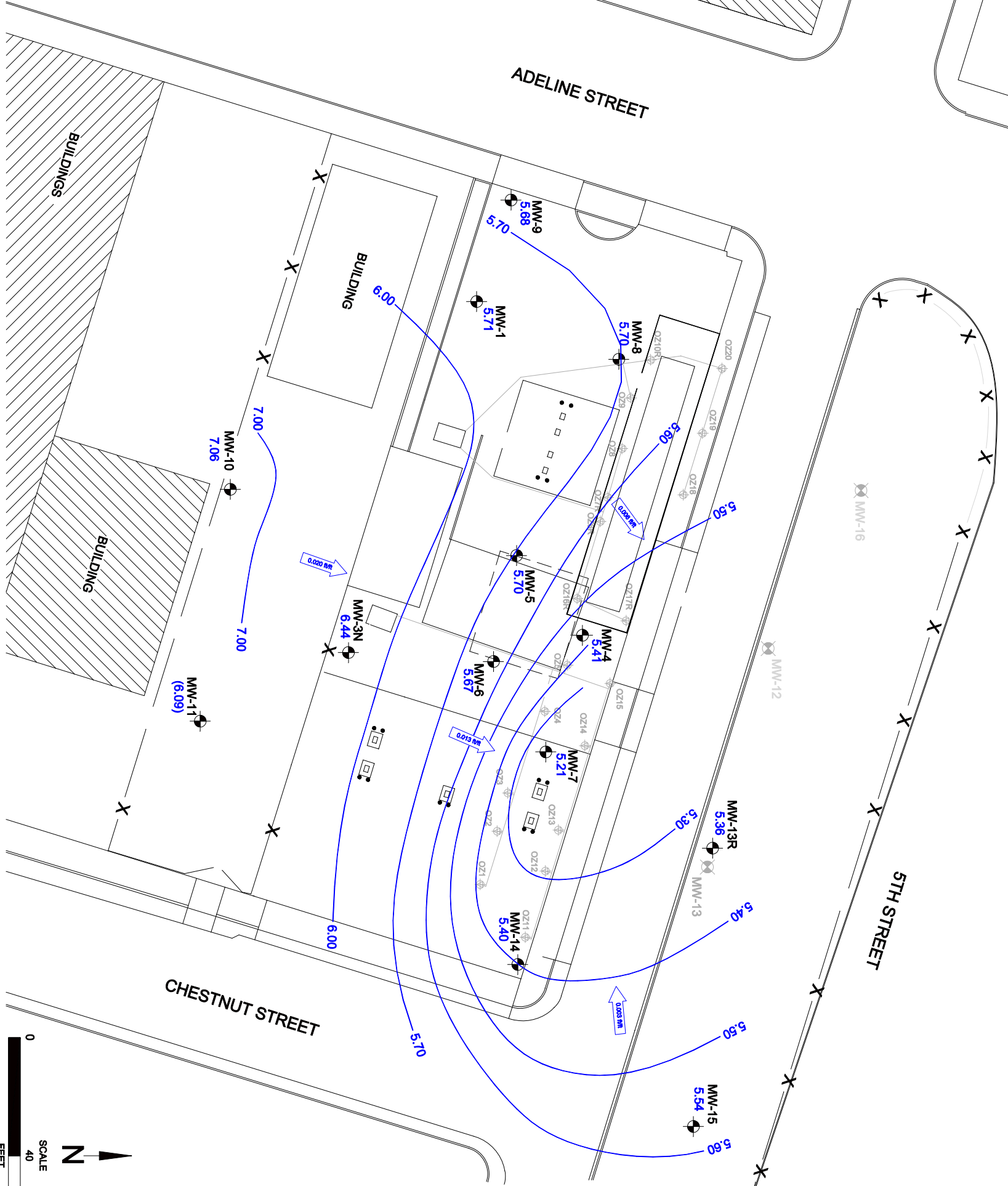
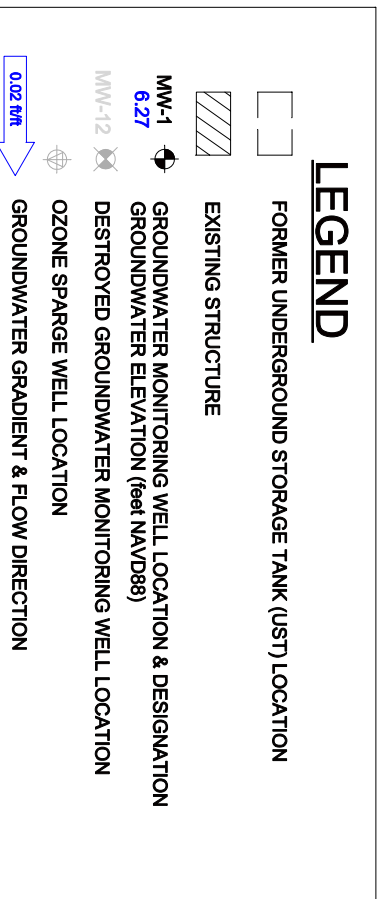
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PROJECT NO. AGE-03-1101	FILE: SP	FIGURE:
DATE: MAY 2013	DRAWN BY: MAC	2

**NOTES**  
 NOACC: NO ACCESS TO WELL  
 FT/FT: FOOT PER FOOT  
 NAVD: NA Vertical Datum 88



22 MAY 2013



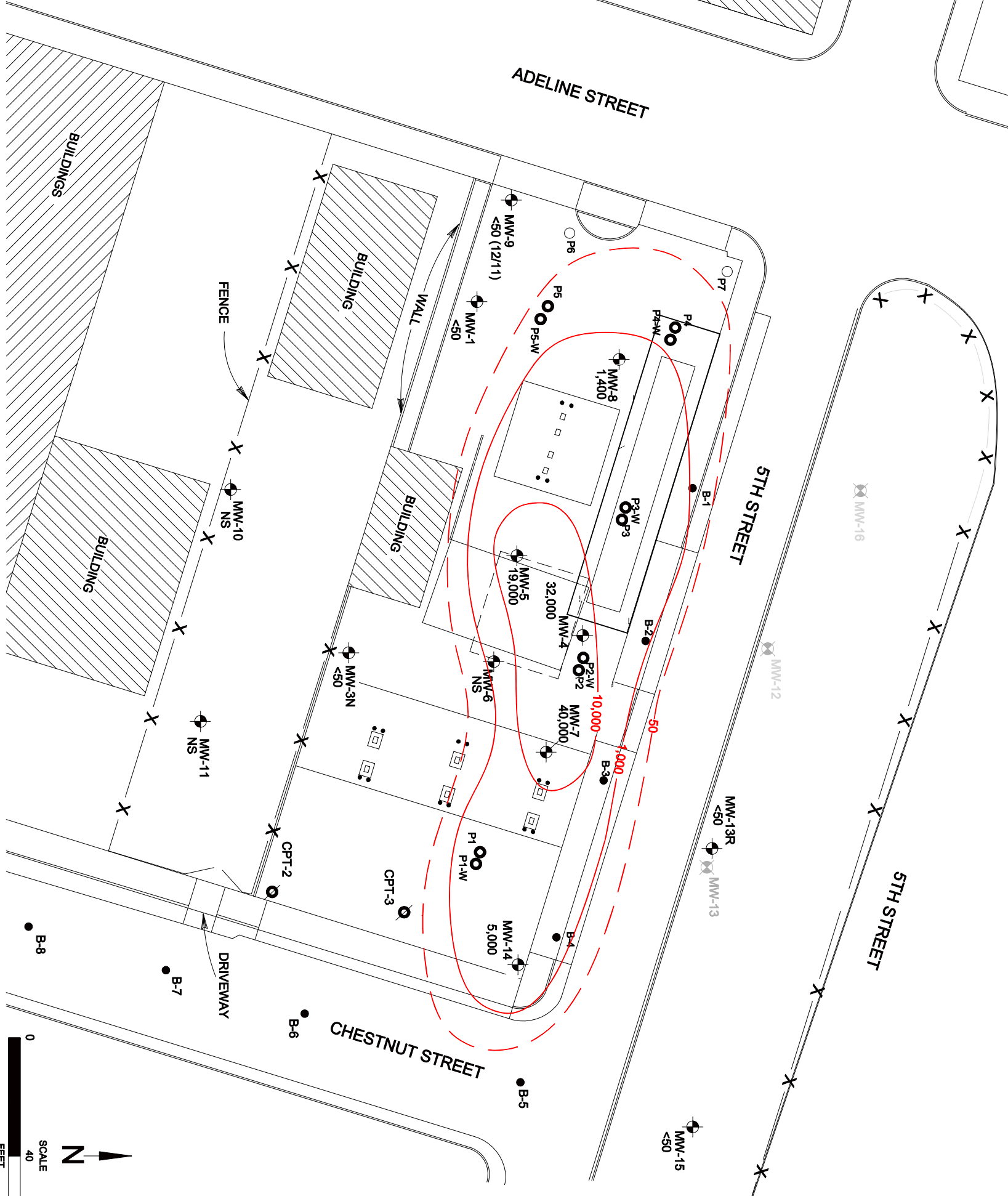
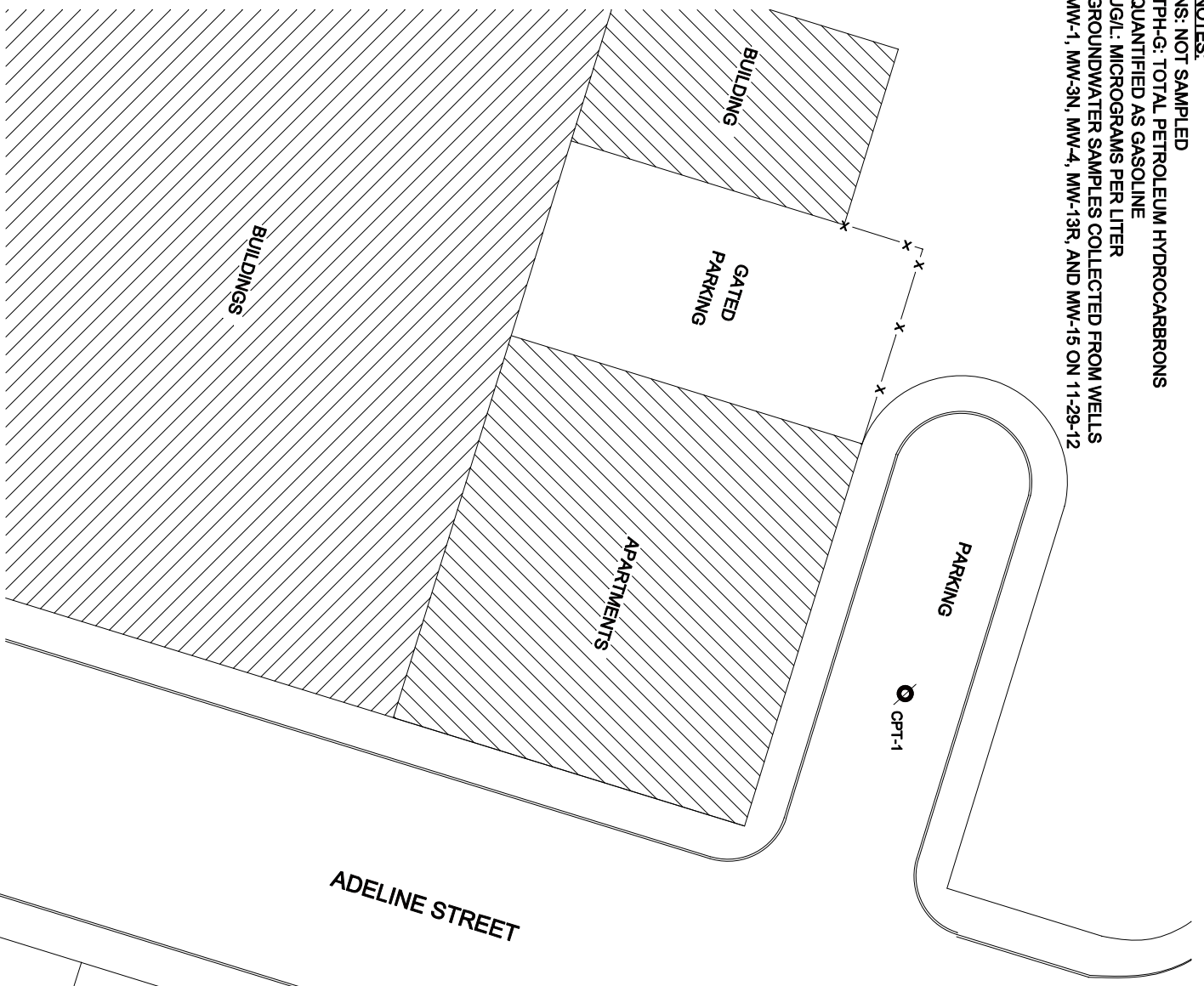
**GROUNDWATER ELEVATION**  
**RINO PACIFIC/OAKLAND TRUCK STOP**  
 1107 5TH STREET  
 OAKLAND, CALIFORNIA

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PROJECT NO. AGE-03-1101	FILE: GW1111	FIGURE: 3
DATE: MAY 2013	DRAWN BY: MAC	

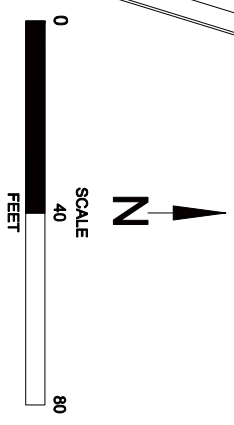
NOTES:  
 NS: NOT SAMPLED  
 TPH-G: TOTAL PETROLEUM HYDROCARBONS  
 QUANTIFIED AS GASOLINE  
 UGL: MICROGRAMS PER LITER  
 GROUNDWATER SAMPLES COLLECTED FROM WELLS  
 MW-1, MW-3N, MW-4, MW-13R, AND MW-15 ON 11-29-12

22 MAY 2013



**LEGEND**

- EXISTING STRUCTURE
- FORMER UNDERGROUND STORAGE TANK (UST) LOCATION
- GROUNDWATER MONITORING WELL LOCATION & DESIGNATION
- TPH-G CONCENTRATION (ug/l)
- DESTROYED GROUNDWATER MONITORING WELL LOCATION & DESIGNATION
- APPROXIMATE TPH-G ISOCENTRATION LINE (UGL)
- BORING LOCATION (JULY 2002)
- SOIL BORING/HYDROPUNCH BORING LOCATION (JULY 2008)
- OZONE SPARGE WELL LOCATION
- CPT BORING LOCATION (SEPTEMBER 2007)

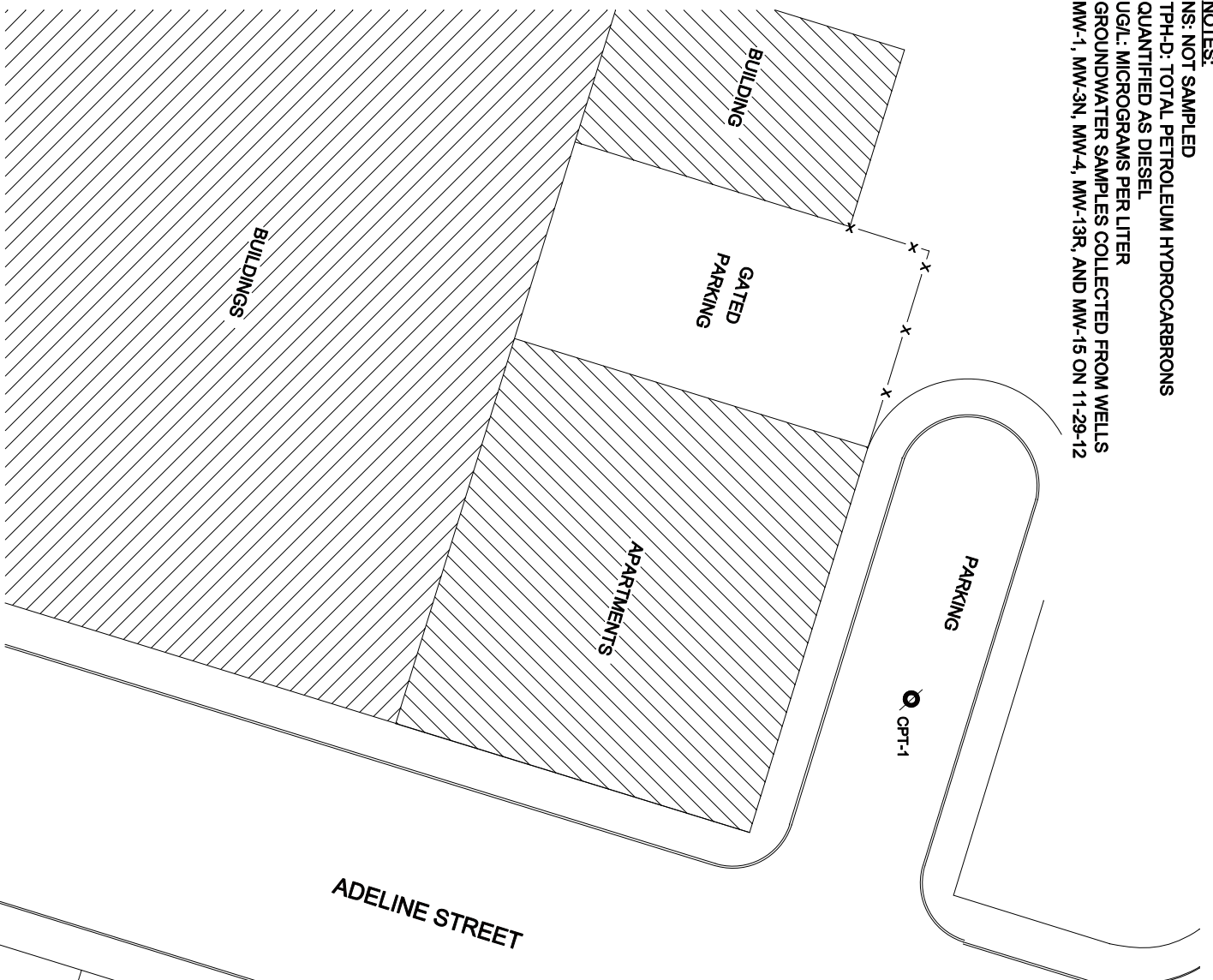


**ESTIMATED LATERAL EXTENT OF DISSOLVED TPH-G  
 RINO PACIFIC/OAKLAND TRUCK STOP  
 1107 5TH STREET  
 OAKLAND, CALIFORNIA**

		PROJECT NO. AGE-03-1101 DATE: MAY 2013	FILE: TPHG DRAWN BY: MAC	FIGURE: 4
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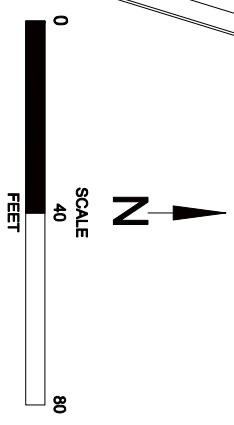
NOTES:  
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 TPH-D: TOTAL PETROLEUM HYDROCARBONS  
 QUANTIFIED AS DIESEL  
 UGL: MICROGRAMS PER LITER  
 GROUNDWATER SAMPLES COLLECTED FROM WELLS  
 MW-1, MW-3N, MW-4, MW-13R, AND MW-15 ON 11-29-12

22 MAY 2013



**LEGEND**

- ◻ FORMER UNDERGROUND STORAGE TANK (UST) LOCATION
- ▨ EXISTING STRUCTURE
- ⊕ GROUNDWATER MONITORING WELL LOCATION & DESIGNATION
- ⊕ <50 TPH-D CONCENTRATION (Micrograms per liter: ug/l)
- ⊕ DESTROYED GROUNDWATER MONITORING WELL LOCATION & DESIGNATION
- ⊕ APPROXIMATE TPH-D ISOCENTRATION LINE (UGL)
- ⊕ ? QUERIED WHERE UNCERTAIN
- ⊕ BORING LOCATION (JULY 2002)
- ⊕ SOIL BORING/HYDRO-PUNCH BORING LOCATION (JULY 2006)
- ⊕ OZONE SPARGE WELL LOCATION
- ⊕ CPT BORING LOCATION (SEPTEMBER 2007)



**ESTIMATED LATERAL EXTENT OF DISSOLVED TPH-D  
 RINO PACIFIC/OAKLAND TRUCK STOP  
 1107 5TH STREET  
 OAKLAND, CALIFORNIA**

<p>Advanced GeoEnvironmental, Inc. www.advgeoenv.com</p>		FIGURE: 5
PROJECT NO. AGE-03-1101	FILE: TPHD	
DATE: MAY 2013	DRAWN BY: MAC	

NOTES:  
 NS: NOT SAMPLED  
 MTBE: METHYL TERTIARY BUTYL ETHER  
 UGL: GROUNDWATER SAMPLES PER LITER  
 GROUNDWATER SAMPLES COLLECTED FROM WELLS  
 MW-1, MW-3N, MW-4, MW-13R, AND MW-15 ON 11-29-12

22 MAY 2013

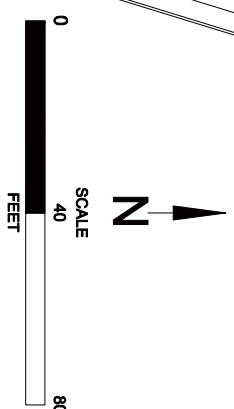


**ESTIMATED LATERAL EXTENT OF DISSOLVED MTBE  
 RINO PACIFIC/OAKLAND TRUCK STOP  
 1107 5TH STREET  
 OAKLAND, CALIFORNIA**



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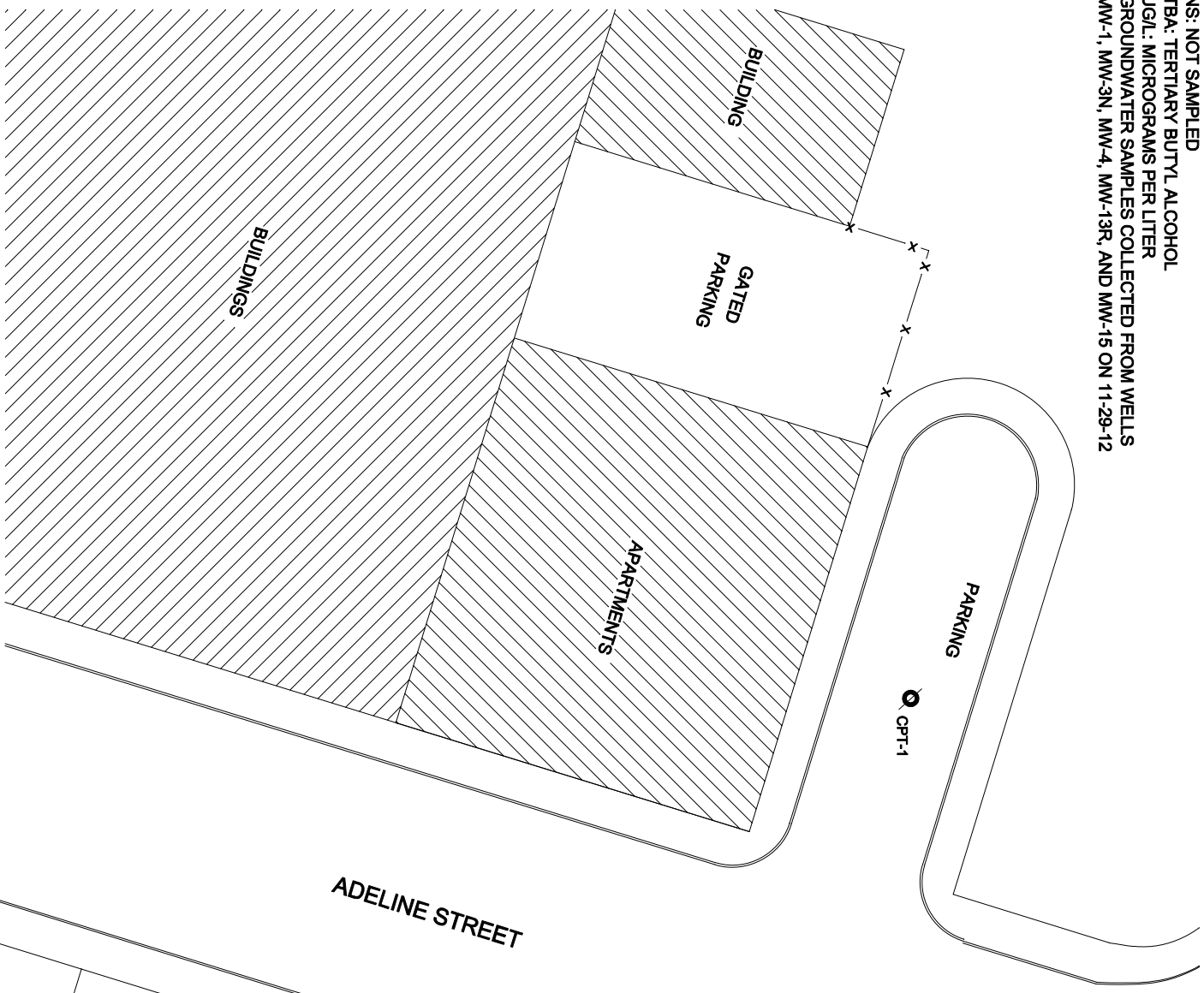
PROJECT NO. AGE-03-1101	FILE: MTBE	FIGURE: 6
DATE: MAY 2013	DRAWN BY: MAC	

















NOTES:  
 NS: NOT SAMPLED  
 TBA: TERTIARY BUTYL ALCOHOL  
 UGL: MICROGRAMS PER LITER  
 GROUNDWATER SAMPLES COLLECTED FROM WELLS  
 MW-1, MW-3N, MW-4, MW-13R, AND MW-15 ON 11-29-12

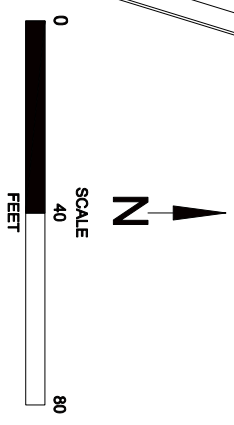
22 MAY 2013



**ESTIMATED LATERAL EXTENT OF DISSOLVED TBA  
 RINO PACIFIC/OAKLAND TRUCK STOP  
 1107 5TH STREET  
 OAKLAND, CALIFORNIA**

 <b>Advanced          GeoEnvironmental, Inc.</b> www.advgeoenv.com		PROJECT NO. AGE-03-1101 FILE: TBA DATE: MAY 2013	DRAWN BY: MAC FIGURE: <b>7</b>
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- LEGEND**
-  EXISTING STRUCTURE
  -  FORMER UNDERGROUND STORAGE TANK (UST) LOCATION
  -  GROUNDWATER MONITORING WELL LOCATION & DESIGNATION
  -  TBA CONCENTRATION (UG/L)
  -  DESTROYED GROUND WATER MONITORING WELL LOCATION & DESIGNATION
  -  APPROXIMATE TBA ISOCONCENTRATION LINE (UG/L)
  -  QUERIED WHERE UNCERTAIN
  -  BORING LOCATION (JULY 2002)
  -  SOIL BORING/PUNCH BORING LOCATION (JULY 2006)
  -  OZONE SPARGE WELL LOCATION
  -  CPT BORING LOCATION (SEPTEMBER 2007)



# **TABLES**

**TABLE 1**  
**WELL CONSTRUCTION DETAILS**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California

Well ID	Installation Date	Borehole Diameter (inch)	Total Depth (feet)	Casing Diameter (inch)	Casing Material	Slot Size (inch)	Filter Pack	Casing Elevation (feet MSL) <sup>1</sup>	Screen Interval (feet bsg)	Filter Pack Interval (feet bsg)	Bentonite Interval (feet bsg)	Grout Interval (feet bsg)
<b>GROUND WATER MONITORING WELLS</b>												
MW-1	11-1996	8	21	2	PVC	0.020	#3	10.02	10 to 20	9 to 20	7 to 9	0.5 to 7
MW-2	11-1996	8	14	2	PVC	0.020	#3	-	8 to 13	7 to 14	5 to 7	0.5 to 5
MW-3	11-1996	8	17	2	PVC	0.020	#3	-	12 to 17	11 to 17	9 to 11	0.5 to 9
MW-3N	05-2002	8	14	2	PVC	0.010	#2/12	11.36	5 to 12	3 to 12	2 to 3	0.5 to 2
MW-4	08-2000	8	20.5	2	PVC	0.010	#2/12	10.16	5 to 20.5	4 to 20.5	3 to 4	0.5 to 3
MW-5	08-2000	8	20.5	2	PVC	0.010	#2/12	10.19	5 to 20.5	4 to 20.5	3 to 4	0.5 to 3
MW-6	08-2000	8	20.5	2	PVC	0.010	#2/12	10.33	5 to 20.5	4 to 20.5	3 to 4	0.5 to 3
MW-7	08-2000	8	20.5	2	PVC	0.010	#2/12	11.41	5 to 20.5	4 to 20.5	3 to 4	0.5 to 3
MW-8	08-2000	8	20.5	2	PVC	0.010	#2/12	9.73	5 to 20.5	4 to 20.5	3 to 4	0.5 to 3
MW-9	08-2000	8	20.5	2	PVC	0.010	#2/12	9.73	5 to 20.5	4 to 20.5	3 to 4	0.5 to 3
MW-10	05-2002	8	12	2	PVC	0.010	#2/12	9.42	5 to 12	3 to 12	2 to 3	0.5 to 2
MW-11	05-2002	8	28	2	PVC	0.010	#2/12	10.77	5 to 12	3 to 12	2 to 3	0.5 to 2
MW-12	10-2004	8	20	2	PVC	0.020	#2/12	10.59	5 to 20	4 to 20	1.5 to 4	0.5 to 1.5
MW-13	10-2004	8	20	2	PVC	0.020	#2/12	11.29	5 to 20	4 to 20	1.5 to 4	0.5 to 1.5
MW-14	10-2004	8	20	2	PVC	0.020	#2/12	11.39	5 to 20	4 to 20	1.5 to 4	0.5 to 1.5
MW-15	09-20-2007	8	20.5	2	PVC	0.010	#2/12	11.38	5 to 20	3 to 20.5	2 to 3	0.5 to 2
MW-16	09-20-2007	8	20.5	2	PVC	0.010	#2/12	10.36	5 to 20	3 to 20.5	2 to 3	0.5 to 2
MW-13R	10-04-2011	8	20	2	PVC	0.020	#3	11.56	5 to 20	4 to 20	2 to 4	0.5 to 2

**TABLE 1**  
**WELL CONSTRUCTION DETAILS**  
 Rino Pacific/Oakland Truck Stop  
 1107 5th Street, Oakland, California

REMEDIATION WELLS											
Well ID	Installation Date	Borehole Diameter (inch)	Total Depth	Blank Casing Diameter (inch)	Casing Material	Micro-sparge diameter (inch)	Filter Pack	Sparge Interval	Filter Pack Interval (feet bsg)	Bentonite Interval (feet bsg)	Grout Interval (feet bsg)
OZ-1 thru OZ10	03-2004	8	12.5	1	PVC	2	#2/12	10 to 12	9 to 12.5	-	-
OZ-11 thru OZ20	10-2004	8	15	1	PVC	2	#2/12	11 to 13	9 to 15	7 to 9	1.5 to 7
OZ6R	7/19/2007	8	14	1	PVC	2	#3	11 to 13	9 to 14	6 to 9	1 to 6
OZ7R	7/19/2007	8	14	1	PVC	2	#3	11 to 13	9 to 14	6 to 9	1 to 6
OZ10R	7/19/2007	8	14	1	PVC	2	#3	11 to 13	9 to 14	6 to 9	1 to 6
OZ16R	7/19/2007	8	14	1	PVC	2	#3	11 to 13	9 to 14	6 to 9	1 to 6
OZ17R	7/19/2007	8	14	1	PVC	2	#3	11 to 13	9 to 14	6 to 9	1 to 6
DESTROYED WELLS											
Well ID	Date Destroyed										
MW-2	12-30-1998										
MW-3	02-15-2002										
OZ-6	04-2007										
OZ-7	04-2007										
OZ-10	04-2007										
OZ-16	04-2007										
OZ-17	04-2007										
MW-12	10-4-2011										
MW-13	10-4-2011										
MW-16	2011										

Notes:

MSL: mean sea level

bsg: below surface grade

MW: monitoring well

OZ: ozone sparge well

Casing elevations re-surveyed 02/02 2007.

MW-4, MW-15 and MW-16 surveyed on 30 November 2007. Performed by Morrow Surveying, Inc. relative to vertical datum NAVD 88 from GPS observations.

Casing elevations re-surveyed 12/01 2011 by Morrow Surveying Inc.

- : Indicates data is not known

**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(feet)

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
10.34'	10/21/96	5.08	5.26
	11/04/96	3.02	7.32
	03/04/97	2.28	8.06
	06/12/97	4.80	5.54
	07/14/97	2.66	7.68
	09/09/97	2.45	7.89
	09/19/97	2.60	7.74
	02/13/98	2.76	7.58
	07/07/98	2.15	8.19
	10/01/98	3.63	6.71
	12/30/98	4.40	5.94
	03/21/00	2.62	7.72
	08/30/00	3.21	7.13
	11/06/00	3.10	7.24
	02/22/01	3.50	6.84
	05/07/01	2.94	7.40
	08/22/01	3.70	6.64
	11/04/01	3.89	6.45
MW-1 (10 - 20 ft bsg)	02/15/02	2.95	7.39
	05/20/02	3.39	7.05
	08/01/02	3.51	6.83
	11/11/02	4.00	6.34
	02/12/03	3.40	6.94
	05/12/03	3.65	6.69
	08/12/03	3.04	7.30
	01/09/04	4.64	5.70
	04/14/04	6.45	3.89
	07/21/04	3.55	6.79
	10/20/04	4.00	6.34
	03/19/05	2.54	7.80
	06/25/05	2.76	7.58
	09/17/05	3.88	6.46
	12/26/05	3.83	6.51
	03/26/06	4.09	6.25
	06/03/06	2.91	7.43
	08/30/06	3.62	6.72
	12/04/06	3.98	6.04



**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
 Rino Pacific/Oakland Truck Stop  
 1107 5th Street, Oakland, California  
 (feet)

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
11.67'	05/20/02	3.91	7.76
	08/01/02	4.22	7.45
	11/11/02	4.42	7.25
	02/12/03	3.71	7.96
	05/12/03	3.49	8.18
	08/12/03	4.18	7.49
	01/09/04	3.78	7.89
	04/14/04	4.01	7.66
	07/21/04	4.90	6.77
	10/20/04	5.28	6.39
	03/19/05	3.10	8.57
MW-3N (5 - 12 ft bsg)	06/25/05	3.10	8.57
	06/25/05	3.83	7.84
	09/17/05	4.94	6.73
	12/26/05	3.64	8.03
	03/23/06	2.86	8.81
	06/03/06	3.45	8.22
	08/30/06	4.78	6.89
	12/04/06	4.90	6.46
	02/28/07	3.36	8.00
	05/29/07	4.55	6.81
	08/20/07	5.40	5.96
11.36*	10/25/07	4.97	6.39
	01/25/08	3.69	7.67
	04/30/08	4.69	6.67
	07/30/08	4.44	6.92
	10/23/08	5.98	5.38
	03/26/09	3.70	7.66
	06/05/09	4.68	6.68
	09/09/09	5.43	5.93
	11/12/09	4.66	6.70
	02/18/10	3.58	7.78
	05/17/10	4.01	7.35
	11/23/10	4.49	6.87
	05/20/11	4.30	7.06
	12/01/11	5.00	6.36
	05/23/12	4.22	7.14
	11/29/12	4.27	7.09
	05/22/13	4.92	6.44

**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(feet)

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
10.46'	08/30/00	3.74	6.72
	11/06/00	3.85	6.61
	02/22/01	4.66	5.80
	05/07/01	2.66	7.80
	08/22/01	4.13	6.33
	11/04/01	4.53	5.93
	02/15/02	3.62	6.84
	05/20/02	3.65	6.81
	08/01/02	4.25	6.21
	11/11/02	4.85	5.61
	02/12/03	4.24	6.22
	05/12/03	4.20	6.26
	08/12/03	4.47	5.99
	01/09/04	3.92	6.54
MW-4 (5 - 20 ft bsg)	04/14/04	4.04	6.42
	07/21/04	4.55	5.91
	10/20/04	4.89	5.57
	03/19/05	3.51	6.95
	06/25/05	4.58	5.88
	09/17/05	4.54	5.92
	12/26/05	4.66	5.80
	03/23/06	3.80	6.66
	06/03/06	3.84	6.62
	08/30/06	4.75	5.71
	12/04/06	4.91	5.25
	02/28/07	4.18	5.98
	05/29/07	4.28	5.88
	08/20/07	4.82	5.34
	10/25/07	4.36	5.80
10.16*	01/25/08	3.75	6.41
	04/30/08	4.52	5.64
	07/30/08	4.76	5.40
	10/23/08	4.96	5.20
	03/26/09	4.39	5.77
	06/05/09	4.60	5.56
	09/09/09	4.74	5.42
	11/12/09	4.46	5.70
	02/18/10	4.15	6.01
	05/17/10	4.26	5.90
	11/23/10	5.56	4.60
	05/20/11	4.29	5.87
9.93**	12/01/11	4.50	5.43
	05/23/12	4.34	5.59
	11/29/12	4.15	5.78
	05/22/13	4.52	5.41



**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(feet)

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
10.24'	08/30/00	3.01	7.23
	11/06/00	3.35	6.89
	02/22/01	3.00	7.24
	05/07/01	2.73	7.51
	08/22/01	3.88	6.36
	11/04/01	3.95	6.29
	02/15/02	2.84	7.40
	05/20/02	2.86	7.38
	08/01/02	3.21	7.03
MW-5 (5 - 20 ft bsg)	11/11/02	4.04	6.20
	02/12/03	3.12	7.12
	05/12/03	3.18	7.06
	08/12/03	3.75	6.49
	01/09/04	3.18	7.06
	04/14/04	3.15	7.09
	07/21/04	4.00	6.24
	10/20/04	4.49	5.75
	03/19/05	2.39	7.85
	06/25/05	2.77	7.47
10.19*	09/17/05	3.91	6.33
	12/26/05	3.46	6.78
	03/23/06	2.44	7.80
	06/03/06	2.55	7.69
	08/30/06	3.85	6.39
	12/04/06	4.37	5.82
	02/28/07	3.31	6.88
	05/29/07	4.45	5.74
	08/20/07	4.75	5.44
	10/25/07	4.21	5.98
	01/25/08	3.75	6.44
	04/30/08	4.33	5.86
	07/30/08	4.75	5.44
	10/23/08	5.01	5.18
	03/26/09	3.96	6.23
	06/05/09	4.34	5.85
	09/09/09	4.71	5.48
	11/12/09	4.35	5.84
	02/18/10	4.06	6.13
	05/17/10	4.08	6.11
	11/23/10	3.91	6.28
	05/20/11	4.13	6.06
	12/01/11	4.55	5.64
	05/23/12	4.24	5.95
	11/29/12	4.02	6.17
	05/22/13	4.49	5.70

**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(feet)

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
10.62'	08/30/00	3.40	7.22
	11/06/00	3.72	6.90
	02/22/01	3.34	7.28
	05/07/01	3.08	7.54
	08/22/01	3.77	6.85
	11/04/01	4.33	6.29
	02/15/02	3.22	7.40
	05/20/02	3.24	7.38
	08/01/02	3.60	7.02
	11/11/02	4.41	6.21
	02/12/03	3.52	7.10
	05/12/03	3.34	7.28
	08/12/03	3.91	6.71
	01/09/04	3.35	7.27
MW-6 (5 - 20 ft bsg)	04/14/04	3.40	7.22
	07/21/04	4.21	6.41
	10/20/04	4.63	5.99
	03/19/05	2.54	8.08
	06/25/05	2.92	7.70
	09/17/05	4.06	6.56
	12/26/05	3.63	6.99
	03/23/06	2.60	8.02
	06/03/06	2.71	7.91
	08/30/06	4.02	6.60
	12/04/06	4.54	5.79
	02/28/07	3.49	6.84
	05/29/07	4.60	5.73
	08/20/07	4.90	5.58
10.33**	10/25/07	4.36	5.97
	01/25/08	3.92	6.41
	04/30/08	4.49	5.84
	07/30/08	4.87	5.46
	10/23/08	5.18	5.15
	03/26/09	4.08	6.25
	06/05/09	4.50	5.83
	09/09/09	4.87	5.46
	11/12/09	4.50	5.83
	02/18/10	3.95	6.38
	05/17/10	4.23	6.10
	05/20/11	4.30	6.03
	12/01/11	4.60	5.73
	05/23/12	4.41	5.92
	11/29/12	4.18	6.15
	05/22/13	4.66	5.67

**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
 Rino Pacific/Oakland Truck Stop  
 1107 5th Street, Oakland, California  
 (feet)

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
11.69'	08/30/00	6.72	4.97
	11/06/00	6.85	4.84
	02/22/01	6.00	5.69
	05/07/01	6.35	5.34
	08/22/01	6.86	4.84
	11/04/01	6.66	5.03
	02/15/02	6.45	5.24
	05/20/02	6.59	5.10
	08/01/02	6.72	4.97
	11/11/02	6.61	5.08
	02/12/03	5.64	6.05
	05/12/03	5.68	6.01
	08/12/03	6.24	5.45
MW-7 (5 - 20 ft bsg)	01/09/04	5.65	6.04
	04/14/04	6.40	5.29
	07/21/04	6.31	5.38
	10/20/04	6.42	5.27
	03/19/05	5.48	6.21
	06/25/05	6.00	5.69
	09/17/05	6.55	5.14
	12/26/05	5.57	6.12
	03/23/06	5.47	6.22
	06/03/06	5.62	6.07
	08/30/06	6.17	5.52
	12/04/06	6.38	5.03
	02/28/07	6.11	5.30
	05/29/07	6.25	5.16
	08/20/07	6.65	4.76
11.41**	10/25/07	6.55	4.86
	01/25/08	6.30	5.11
	04/30/08	6.54	4.87
	07/30/08	6.50	4.91
	10/23/08	6.67	4.74
	03/26/09	5.91	5.50
	06/05/09	6.35	5.06
	09/09/09	6.73	4.68
	11/12/09	6.47	4.94
	02/18/10	5.97	5.44
	05/17/10	5.74	5.67
	11/23/10	6.05	5.36
	05/20/11	5.65	5.76
	12/01/11	6.54	4.87
	05/23/12	5.74	5.67
	11/29/12	5.96	5.45
	05/22/13	6.20	5.21

**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(feet)

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
10.06'	08/30/00	3.06	7.00
	11/06/00	2.98	7.08
	02/22/01	2.46	7.60
	05/07/01	2.76	7.30
	08/22/01	3.56	6.50
	11/04/01	3.76	6.30
	02/15/02	2.72	7.34
	05/20/02	2.82	7.24
	08/01/02	3.06	7.00
	11/11/02	3.54	6.52
9.73**	02/12/03	3.07	6.99
	05/12/03	2.69	7.37
	08/12/03	3.10	6.96
	01/09/04	2.85	7.21
	04/14/04	3.45	6.61
	07/21/04	4.56	5.50
	10/20/04	4.72	5.34
	03/19/05	3.31	6.75
	06/25/05	3.05	7.01
	09/17/05	4.22	5.84
	12/26/05	3.24	6.82
	03/23/06	2.67	7.39
	06/03/06	2.63	7.43
	08/30/06	3.56	6.50
	12/04/06*	3.81	5.92
	02/28/07	3.06	6.67
	05/29/07	3.77	5.96
	08/20/07	4.21	5.52
	10/25/07	3.96	5.77
	01/25/08	2.97	6.76
	04/30/08	3.85	5.88
	07/30/08	4.16	5.57
	10/23/08	4.48	5.25
	03/26/09	3.25	6.48
	06/05/09	3.70	6.03
	09/09/09	4.10	5.63
	11/12/09	3.79	5.94
	02/18/10	3.19	6.54
05/17/10	3.30	6.43	
11/23/10	3.21	6.52	
05/20/11	3.45	6.28	
12/01/11	3.76	5.97	
05/23/12	3.40	6.33	
11/29/12	3.33	6.40	
05/22/13	4.03	5.70	
MW-8 (5 - 20 ft bsg)			

**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(feet)

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
10.03'	08/30/00	2.81	7.22
	11/06/00	2.68	7.35
	02/22/01	2.20	7.83
	05/07/01	2.75	7.28
	08/22/01	3.80	6.23
	11/04/01	3.61	6.42
	02/15/02	2.92	7.11
	05/20/02	2.38	7.65
MW-9 (5 - 20 ft bsg)	08/01/02	2.72	7.31
	11/11/02	2.87	7.16
	02/12/03	2.43	7.60
	05/12/03	2.41	7.62
	08/12/03	2.61	7.42
	01/09/04	2.87	7.16
	04/14/04	3.65	6.38
	07/21/04	3.70	6.33
9.73'	10/20/04	4.20	5.83
	03/19/05	3.75	6.28
	06/25/05	3.85	6.18
	09/17/05	3.38	6.65
	12/26/05	2.01	8.02
	03/23/06	2.50	7.53
	06/03/06	2.63	7.40
	08/30/06	3.35	6.68
	12/04/06	3.63	6.10
	02/28/07	2.61	7.12
	05/29/07	3.34	6.39
	08/20/07	3.82	5.91
	10/25/07	3.21	6.52
	01/25/08	2.62	7.11
	04/30/08	3.55	6.18
	07/30/08	4.05	5.68
	10/23/08	3.96	5.77
	03/26/09	3.21	6.52
	06/05/09	3.25	6.48
	09/09/09	noacc	-
	11/12/09	3.19	6.54
	02/18/10	2.82	6.91
	05/17/10	2.79	6.94
	11/23/10	2.81	6.92
	05/20/11	9.24	0.49
	12/01/11	3.20	6.53
	05/23/12	2.95	6.78
	11/29/12	2.59	7.14
	05/22/13	4.05	5.68

**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
 Rino Pacific/Oakland Truck Stop  
 1107 5th Street, Oakland, California  
 (feet)

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
11.07'	05/20/02	4.54	6.53
	06/18/02	4.25	6.82
	08/01/02	1.80	9.27
	11/11/02	1.50	9.57
	02/12/03	1.07	10.00
	05/12/03	1.01	10.06
	08/12/03	1.44	9.63
	01/09/04	0.90	10.17
	04/14/04	2.05	9.02
	07/21/04	2.78	8.29
	10/20/04	1.05	10.02
MW-10 (5 - 12 ft bsg)	03/19/05	0.75	10.32
	06/25/05	1.91	9.16
	09/17/05	2.90	8.17
	12/26/05	0.32	10.75
	03/23/06	0.76	10.31
	06/03/06	1.65	9.42
	08/30/06	2.70	8.37
	12/04/06	2.41	7.01
	02/28/07	0.30	9.12
	05/29/07	2.17	7.25
	08/20/07	3.04	6.38
9.42'*	10/25/07	2.23	7.19
	01/25/08	0.58	8.84
	04/30/08	2.28	7.14
	07/30/08	3.07	6.35
	10/23/08	3.62	5.80
	03/26/09	1.30	8.12
	06/05/09	2.13	7.29
	09/09/09	2.87	6.55
	11/12/09	1.88	7.54
	02/18/10	1.25	8.17
	05/17/10	1.53	7.89
	11/23/10	noacc	-
	05/20/11	noacc	-
	12/01/11	noacc	-
	05/23/12	1.62	7.80
	11/29/12	1.10	8.32
	05/22/13	2.36	7.06

**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(feet)

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)	
9.64'	05/20/02	0.84	8.80	
	06/18/02	1.71	7.93	
	08/01/02	4.88	4.76	
	11/11/02	5.18	4.46	
	02/12/03	3.85	5.79	
	05/12/03	4.00	5.64	
	08/12/03	4.31	5.33	
	01/09/04	3.74	5.90	
	04/14/04	5.73	3.91	
	07/21/04	5.80	3.84	
	10/20/04	--	--	
	MW-11 (5 - 20 ft bsg)	03/19/05	4.81	4.83
06/25/05		4.56	5.08	
09/17/05		5.30	4.34	
12/26/05		5.11	4.53	
03/23/06		3.35	6.29	
06/03/06		3.65	5.99	
08/30/06		4.94	4.70	
12/04/06		5.43	5.34	
02/28/07		4.20	6.57	
05/29/07		4.75	6.02	
08/20/07		5.53	5.24	
10.77**		10/25/07	5.64	5.06
		01/25/08	4.46	6.31
		04/30/08	4.82	5.95
		07/30/08	5.48	5.29
		10/23/08	6.02	4.75
		03/26/09	3.98	6.79
		06/05/09	4.19	6.58
		09/09/09	5.59	5.18
		11/12/09	5.05	5.72
		02/18/10	4.08	6.69
		05/17/10	3.61	7.16
	11/23/10	noacc	-	
05/20/11	3.89	6.88		
12/01/11	4.93	5.84		
05/23/12	3.96	6.81		
11/29/12	4.76	6.01		
05/22/13	4.68	6.09		

**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(feet)

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
10.59**  MW-12 (5 - 20 ft bsg)	10/20/04	5.41	--
	03/19/05	5.74	--
	06/25/05	5.23	--
	09/17/05	5.74	--
	12/26/05	4.37	--
	03/23/06	4.36	--
	06/03/06	5.12	--
	08/30/06	5.67	--
	12/04/06	5.83	4.76
	02/28/07	4.80	5.79
	05/29/07	5.62	4.97
	08/20/07	5.88	4.71
	10/25/07	5.50	5.09
	01/25/08	4.74	5.85
	04/30/08	5.56	5.03
	07/30/08	5.73	4.86
	10/23/08	6.00	4.59
	03/26/09	4.71	5.88
	06/05/09	5.37	5.22
	09/09/09	5.81	4.78
11/12/09	5.37	5.22	
02/18/10	4.57	6.02	
05/17/10	4.88	5.71	
11/23/10	noacc	-	
05/20/11	noacc	-	
MW-12 destroyed on 04 October 2011			
11.29**  MW-13 (5 - 20 ft bsg)	10/20/04	5.67	--
	03/19/05	4.82	--
	06/25/05	5.78	--
	09/17/05	6.21	--
	12/26/05	4.25	--
	03/23/06	4.57	--
	06/03/06	5.60	--
	08/30/06	6.20	--
	12/04/06	6.33	4.96
	02/28/07	4.95	6.34
	05/29/07	6.02	5.27
	08/20/07	6.42	4.87
	10/25/07	6.21	5.08
	01/25/08	5.23	6.06
	04/30/08	6.17	5.12
	07/30/08	6.32	4.97
	10/23/08	6.51	4.78
	03/26/09	5.42	5.87
	06/05/09	5.98	5.31
	09/09/09	6.45	4.84
11/12/09	6.02	5.27	
02/18/10	5.07	6.22	
05/17/10	5.48	5.81	
11/23/10	noacc	-	
05/20/11	noacc	-	
MW-13 destroyed on 04 October 2011			



**TABLE 2**  
**GROUNDWATER ELEVATION DATA**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(feet)

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
MW-13R (5 - 20 ft bsg)	12/01/11	6.31	5.25
	05/23/12	5.82	5.74
	11/29/12	5.53	6.03
	05/22/13	6.20	5.36
11.56**			
MW-14 (5 - 20 ft bsg)	10/20/04	6.36	--
	03/19/05	5.20	--
	06/25/05	5.56	--
	09/17/05	6.09	--
	12/26/05	5.50	--
	03/23/06	5.06	--
	06/03/06	5.39	--
	08/30/06	5.92	--
	12/04/06	6.15	5.24
	02/28/07	5.84	5.55
	05/29/07	5.97	5.42
	08/20/07	6.43	4.96
	10/25/07	6.37	5.02
	01/25/08	6.13	5.26
	04/30/08	6.42	4.97
	07/30/08	6.35	5.04
	10/23/08	6.56	4.83
	03/26/09	5.80	5.59
	06/05/09	6.25	5.14
	09/09/09	6.63	4.76
11/12/09	6.31	5.08	
02/18/10	5.75	5.64	
05/17/10	5.65	5.74	
11/23/10	6.00	5.39	
05/20/11	5.60	5.79	
12/01/11	6.30	5.09	
05/23/12	5.60	5.79	
11/29/12	5.90	5.49	
05/22/13	5.99	5.40	
11.39**			
MW-15 (5 - 20 ft bsg)	10/05/07	6.14	5.24
	10/25/07	6.00	5.38
	01/25/08	5.76	5.62
	04/30/08	6.01	5.37
	07/30/08	5.98	5.40
	10/23/08	6.20	5.18
	03/26/09	5.45	5.93
	06/05/09	5.90	5.48
	09/09/09	6.28	5.10
	11/12/09	5.97	5.41
	02/18/10	5.45	5.93
	05/17/10	noacc	-
	11/23/10	noacc	-
	05/20/11	noacc	-
	11.38*		
MW-15 (5 - 20 ft bsg)	12/01/11	5.95	5.41
	05/23/12	5.30	6.06
	11/29/12	5.54	5.82
	05/22/13	5.82	5.54
	11.36**		



**TABLE 3**  
**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(µg/l)

Sample ID	Date	8015M		8260B											8021
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE
MW-1	11/04/96	ND	220	-	ND	ND	ND	ND	-	-	-	-	-	-	-
	03/05/97	ND	230	-	ND	ND	ND	ND	-	-	-	-	-	-	-
	06/12/97	ND	290	-	ND	ND	ND	ND	-	-	-	-	-	-	-
	09/09/07	ND	180	-	ND	ND	ND	ND	-	-	-	-	-	-	-
	02/13/98	ND	590	-	ND	ND	ND	ND	-	-	-	-	-	-	-
	07/07/98	ND	1,400	2.7	ND	ND	ND	ND	-	-	-	-	-	-	-
	10/01/98	ND	1,100	1.8	ND	ND	ND	ND	-	-	-	-	-	-	-
	12/30/98	ND	1,700	2.3	ND	ND	ND	ND	-	-	-	-	-	-	-
	03/21/00	220	3,100	4,800	11	ND	ND	ND	-	-	-	-	-	-	-
	08/30/00	140	1,600	-	5.3	<0.5	<0.5	<0.5	-	-	-	-	-	-	2,900
	11/06/00	51	1,500	2,100	1	<0.5	<0.5	<0.5	<50	<50	<50	<250	<50	<50	1,700
	02/22/01	140	3,000	1,100	<0.5	<0.5	<0.5	<0.5	<20	<20	<20	<100	<20	<20	100
	05/07/01	<50	3,800	1,100	<0.5	<0.5	<0.5	<0.5	<20	<20	<20	<100	<20	<20	780
	08/22/01	<110	1,800	1,600	<0.5	<0.5	<0.5	<0.5	<25	<25	<25	<130	<25	<25	1,900
	11/04/01	<50	1,300	1,500	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	<250	<50	<50	1,600
	02/15/02	<50	2,000	770	<0.5	<0.5	<0.5	<0.5	<20	<20	<20	<100	<20	<20	610
	05/20/02	<50	160	730	<0.5	<0.5	<0.5	<0.5	<10	<10	<10	<100	<10	<10	570
	08/01/02	<50	600	610	<0.5	<0.5	<0.5	<0.5	<10	<10	<10	<100	<10	<10	480
	11/11/02	<50	2,200	600	<0.5	<0.5	<0.5	<0.5	<10	<10	<10	<100	<10	<10	510
	02/12/03	<50	1,200	640	<0.5	<0.5	<0.5	<0.5	<10	<10	<10	<100	<10	<10	540
05/12/03	<50	520	580	<0.5	<0.5	<0.5	<0.5	<10	<10	<10	<100	<10	<10	610	
08/11/03	<50	180	660	<0.5	<0.5	<0.5	<0.5	<12	<12	<12	<120	<12	<12	740	

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**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(µg/l)

Sample ID	Date	8015M		8260B											8021
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE
MW-1	01/09/04	<b>610</b>	<50	<b>590</b>	<0.5	<0.5	<0.5	<b>4.2</b>	<1.0	<1.0	<1.0	<10	<1.0	<1.0	-
	04/14/04	<b>730</b>	<50	<b>730</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<1.0	<1.0	-
	07/21/04	<b>900</b>	<50	<b>620</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<1.0	<1.0	-
	10/20/04	<50	<50	<b>60</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<1.0	<1.0	-
	03/19/05	<b>100</b>	<50	<b>100</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<1.0	<1.0	-
	06/25/05	<b>100</b>	<50	<b>100</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<1.0	<1.0	-
	09/17/05	<b>100</b>	<50	<b>83</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<1.0	<1.0	-
	12/26/05	<b>100</b>	<50	<b>86</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<1.0	<1.0	-
	03/23/06	<50	<50	<b>13</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/03/06	<50	<50	<b>16</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/30/06	<50	<50	<b>7</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	<50	<50	<b>63</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>62</b>	<0.5	<0.5	-
	02/28/07	<50	<50	<b>11</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	<50	<50	<b>45</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/20/07	<50	<50	<b>4.9</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/25/07	<50	<50	<b>31</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	<50	<b>8,800</b>	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/30/08	<50	<b>5,700</b>	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	<50	<b>3,300</b>	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
11/12/09	<50	<b>1,900</b>	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-	
11/23/10	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
12/01/11	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<10	-	-	-	
11/29/12	<50	<50	<b>15</b>	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<10	-	-	-	

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**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(µg/l)

Sample ID	Date	8015M		8260B											8021
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE
MW-3N	05/20/02	<50	<b>1,800</b>	<b>1,500</b>	<0.5	<0.5	<0.5	<0.5	<25	<25	<25	<250	<25	<25	<b>1,100</b>
	08/01/02	<50	<b>2,900</b>	<b>540</b>	<0.5	<0.5	<0.5	<0.5	<10	<10	<b>14</b>	<100	<10	<10	<b>350</b>
	11/11/02	<50	<b>1,100</b>	<b>270</b>	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<b>7.1</b>	<50	<5.0	<5.0	<b>280</b>
	02/12/03	<50	<b>1,300</b>	<b>410</b>	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<b>380</b>
	05/12/03	<50	<b>1,500</b>	<b>360</b>	<0.5	<0.5	<0.5	<0.5	<6.2	<6.2	<6.2	<62	<6.2	<6.2	<b>330</b>
	08/11/03	<50	<b>720</b>	<b>280</b>	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<b>250</b>
	01/09/04	<b>230</b>	<50	<b>230</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<b>2.5</b>	<10	<0.5	<0.5	-
	04/14/04	<b>230</b>	<50	<b>220</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/21/04	<b>400</b>	<50	<b>370</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<b>4.4</b>	<10	<0.5	<0.5	-
	10/20/04	<b>190</b>	<50	<b>180</b>	<b>3.5</b>	<0.5	<0.5	<b>5.2</b>	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/19/05	<b>300</b>	<50	<b>300</b>	<b>2.6</b>	<0.5	<0.5	<b>5.2</b>	<1.0	<1.0	<b>2.4</b>	<10	<0.5	<0.5	-
	06/25/05	<b>1,200</b>	<50	<b>1,100</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<b>330</b>	<0.5	<0.5	-
	09/17/05	<b>1,900</b>	<50	<b>1,100</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<b>770</b>	<0.5	<0.5	-
	12/26/05	<b>1,500</b>	<50	<b>930</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<b>520</b>	<0.5	<0.5	-
	03/23/06	<b>550</b>	<50	<b>110</b>	<0.5	<b>3.6</b>	<b>13</b>	<b>37.1</b>	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/03/06	<b>200</b>	<50	<b>150</b>	<0.5	2.6	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/30/06	<b>160</b>	<50	<b>130</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	<b>900</b>	<50	<b>790</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<b>19</b>	<b>880</b>	<0.5	<0.5	-
	02/28/07	<50	<50	<b>97</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	<b>170</b>	<50	<b>160</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/20/07	<50	<50	<b>21</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/25/07	<50	<50	<b>40</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	<50	<50	<b>18</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	<b>120</b>	<50	<b>110</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/30/08	<50	<50	<b>40</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
11/12/09	<50	-	<1.0	<0.5	<0.5	<0.5	<0.5	<0.6	-	-	<10	-	-	-	
11/23/10	<50	-	<1.0	<0.5	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<10	<0.5	<0.5	-	
12/01/11	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<10	-	-	-	
11/29/12	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<10	-	-	-	

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**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(µg/l)

Sample ID	Date	8015M		8260B											8021	
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE	
MW-4	08/30/00	<b>1,300</b>	<b>390</b>	-	<b>64</b>	<b>63</b>	<b>9.7</b>	<b>110</b>	-	-	-	-	-	-	<b>210,000</b>	
	11/06/00	<3,300	<b>170</b>	<b>120,000</b>	<b>80</b>	<4.0	<5.0	<3.0	<2,500	<2,500	<2,500	<13,000	<2,500	<2,500	<b>130,000</b>	
	11/06/00†	<3,300	-	<b>120,000</b>	<b>86</b>	<4.0	<7.0	<6.0	<2,500	<2,500	<2,500	<13,000	<2,500	<2,500	<b>130,000</b>	
	02/22/01	<3,300	<b>120</b>	<b>150,000</b>	<b>30</b>	<3.0	<3.0	<3.0	<2,500	<2,500	<2,500	<13,000	<2,500	<2,500	<b>120,000</b>	
	05/07/01	<4,200	<b>240</b>	<b>200,000</b>	<20	<10.0	<5.0	<5.0	<5,000	<5,000	<5,000	<25,000	<5,000	<5,000	<b>150,000</b>	
	08/22/01	<5,400	<b>300</b>	<b>190,000</b>	<5.0	<5.0	<5.0	<5.0	<5,000	<5,000	<5,000	<25,000	<5,000	<5,000	<b>160,000</b>	
	11/04/01	<5,000	<b>210</b>	<b>170,000</b>	<5.0	<5.0	<5.0	<5.0	<2,500	<2,500	<2,500	<13,000	<2,500	<2,500	<b>130,000</b>	
	02/15/02	<5,000	<b>340</b>	<b>160,000</b>	<5.0	<5.0	<5.0	<10	<2,500	<2,500	<2,500	<12,500	<2,500	<2,500	<b>160,000</b>	
	05/20/02	<2,500	<b>200</b>	<b>130,000</b>	<25	<25	<25	<25	<1,700	<1,700	<1,700	<17,000	<1,700	<1,700	<b>98,000</b>	
	08/01/02	<2,500	<b>200</b>	<b>100,000</b>	<25	<25	<25	<25	<1,700	<1,700	<1,700	<17,000	<1,700	<1,700	<b>89,000</b>	
	11/11/02	<3,000	<b>200</b>	<b>84,000</b>	<25	<25	<25	<25	<1,700	<1,700	<1,700	<17,000	<1,700	<1,700	<b>99,000</b>	
	02/12/03	<2,500	<b>88</b>	<b>70,000</b>	<25	<25	<25	<25	<1,700	<1,700	<1,700	<17,000	<1,700	<1,700	<b>78,000</b>	
	05/12/03	<2,500	<b>88</b>	<b>86,000</b>	<25	<25	<25	<25	<1,700	<1,700	<1,700	<17,000	<1,700	<1,700	<b>88,000</b>	
	08/11/03	<2,500	<b>66</b>	<b>74,000</b>	<25	<25	<25	<25	<1,700	<1,700	<1,700	<17,000	<1,700	<1,700	<b>77,000</b>	
	01/09/04	<b>50,000</b>	<50	<b>50,000</b>	<b>120</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<b>85</b>	<10	<0.5	<0.5	-
	04/14/04	<b>27,000</b>	<50	<b>27,000</b>	<0.5	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/21/04	<b>27,000</b>	<50	<b>5,300</b>	<0.5	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<b>3.6</b>	<b>150,000</b>	<0.5	<0.5	-
	10/20/04	<b>22,000</b>	<50	<b>840</b>	<0.5	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>110,000</b>	<0.5	<0.5	-
	03/19/05	<b>3,500</b>	<0.05	<b>900</b>	<b>25</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<b>4.6</b>	<b>2,900</b>	<0.5	<0.5	-
	06/25/05	<b>3,000</b>	<0.05	<b>620</b>	<0.5	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>54,000</b>	<0.5	<0.5	-
09/17/05	<b>3,200</b>	<0.05	<b>370</b>	<0.5	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>180,000</b>	<0.5	<0.5	-	
09/24/05	In-situ Chemical Oxidation (Ozone injection) commences															

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(µg/l)

Sample ID	Date	8015M		8260B											8021
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE
MW-4	12/26/05	<b>3,000</b>	<50	<b>730</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>76,000</b>	<0.5	<0.5	-
	03/23/06	<b>300</b>	<50	<b>21</b>	<b>4.2</b>	<0.5	<b>2.1</b>	<b>2.5</b>	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/03/06	<b>110</b>	<50	<b>33</b>	<b>3.9</b>	<b>2.2</b>	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/30/06	<50	<50	<b>7.7</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	<b>1,100</b>	<50	<b>68</b>	<0.5	<0.5	<0.5	<0.6	<b>18</b>	<1.0	<1.0	<b>6,300</b>	<0.5	<0.5	-
	02/28/07	<b>320</b>	<50	<b>23</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	<b>800</b>	<50	<b>330</b>	<b>48</b>	<b>9.4</b>	<b>9.2</b>	<b>15</b>	<1.0	<1.0	<b>18</b>	<10	<0.5	<0.5	-
	08/20/07	<b>400</b>	<50	<b>74</b>	<0.5	<0.5	<0.5	<b>2.3</b>	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/25/07	<b>340</b>	<50	<b>90</b>	<0.5	<0.5	<0.5	<b>1.6</b>	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/29/08	<b>220</b>	<50	<b>150</b>	<b>10</b>	<0.5	<b>1.6</b>	<b>2.0</b>	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	<50	<b>7,600</b>	<1	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/30/08	<50	<b>5,500</b>	<1	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	<b>120</b>	<b>3,200</b>	<b>110</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	11/12/09	<b>120</b>	-	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	11/23/10	<b>22,000</b>	-	<b>86</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>120,000</b>	<0.5	<0.5	-
12/01/11	<b>11,000</b>	<b>8,900</b>	<b>30</b>	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<b>34,000</b>	-	-	-
11/29/12	<b>32,000</b>	<b>18,000</b>	<b>66</b>	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<b>34,000</b>	-	-	-

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(µg/l)

Sample ID	Date	8015M		8260B											8021
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE
MW-5	08/30/00	<b>1,000</b>	<b>450</b>	-	<5.0	<5.0	<5.0	<5.0	-	-	-	-	-	-	<b>52,000</b>
	11/06/00	<1,000	<b>520</b>	<b>42,000</b>	<1.0	<1.0	<1.0	<1.0	<1,000	<1,000	<1,000	<5,000	<1,000	<1,000	<b>44,000</b>
	02/22/01	<1,000	<b>270</b>	<b>39,000</b>	<1.0	<1.0	<1.0	<1.0	<500	<500	<500	<2,500	<500	<500	<b>30,000</b>
	05/07/01	<1,800	<b>470</b>	<b>59,000</b>	<5.0	<2.0	<2.0	<2.0	<1,000	<1,000	<1,000	<5,000	<1,000	<1,000	<b>48,000</b>
	08/22/01	<2,200	<b>780</b>	<b>70,000</b>	<3.0	<3.0	<3.0	<3.0	<1,000	<1,000	<1,000	<5,000	<1,000	<1,000	<b>63,000</b>
	11/04/01	<1,700	<b>670</b>	<b>37,000</b>	<2.0	<2.0	<2.0	<2.0	<1,000	<1,000	<1,000	<5,000	<1,000	<1,000	<b>44,000</b>
	02/15/02	<1,100	<b>480</b>	<b>33,000</b>	<1.0	<1.0	<1.0	<1.0	<1,250	<1,250	<1,250	<6,250	<1,250	<1,250	<b>33,000</b>
	05/20/02	<500	<b>1,600</b>	<b>28,000</b>	<5.0	<5.0	<5.0	<5.0	<500	<500	<500	<5,000	<500	<500	<b>21,000</b>
	08/01/02	<500	<b>810</b>	<b>24,000</b>	<5.0	<5.0	<5.0	<5.0	<500	<500	<500	<5,000	<500	<500	<b>10,000</b>
	11/11/02	<500	<b>2,100</b>	<b>8,800</b>	<5.0	<5.0	<5.0	<5.0	<200	<200	<200	<b>10,000</b>	<200	<200	<b>3,700</b>
	02/12/03	<170	<b>2,900</b>	<b>3,200</b>	<b>30</b>	<1.7	<1.7	<1.7	<100	<100	<100	<b>4,100</b>	<100	<100	<b>19,000</b>
	05/12/03	<500	<b>1,500</b>	<b>21,000</b>	<b>13</b>	<5.0	<5.0	<5.0	<500	<500	<500	<b>5,200</b>	<500	<500	<b>1,500</b>
	08/11/03	<b>71</b>	<b>2,200</b>	<b>1,700</b>	<b>9.5</b>	<0.5	<0.5	<0.5	<50	<50	<50	<b>14,000</b>	<50	<50	<b>1,700</b>
	01/09/04	<b>1,500</b>	<50	<b>1,500</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/14/04	<b>500</b>	<50	<b>430</b>	<b>20</b>	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/21/04	<b>2,000</b>	<50	<b>320</b>	<b>2.2</b>	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>15,000</b>	<0.5	<0.5	-
	10/20/04	<b>1,900</b>	<50	<b>23</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>11,000</b>	<0.5	<0.5	-
	03/19/05	<b>1,000</b>	<b>860</b>	<b>71</b>	<b>2.3</b>	<0.5	<b>5</b>	<b>40</b>	<1.0	<1.0	<1.0	<b>500</b>	<0.5	<0.5	-
	06/25/05	<b>1,500</b>	<b>1,200</b>	<b>54</b>	<b>11</b>	<0.5	<b>3.6</b>	<b>37</b>	<1.0	<1.0	<1.0	<b>2,700</b>	<0.5	<0.5	-
	09/17/05	<b>2,500</b>	<b>1,600</b>	<b>16</b>	<b>42</b>	<0.5	<0.5	<b>10</b>	<1.0	<1.0	<1.0	<b>12,000</b>	<0.5	<0.5	-
09/24/05	In-situ Chemical Oxidation (Ozone injection) commences														



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Sample ID	Date	8015M		8260B											8021
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE
MW-5	12/26/05	<b>1,500</b>	<b>1,200</b>	<b>44</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>2,700</b>	<0.5	<0.5	-
	03/23/06	<50	<b>850</b>	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/03/06	<b>400</b>	<b>900</b>	<b>280</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/30/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	<b>1,200</b>	<50	<b>22</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>2,200</b>	<0.5	<0.5	-
	02/28/07	<50	<50	<b>11</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	<b>9,000</b>	<b>240,000</b>	<b>26</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	17	<10	<0.5	<0.5	-
	08/20/07	<b>11,000</b>	<b>280,000</b>	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/25/07	<b>14,000</b>	<b>300,000</b>	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	<b>11,000</b>	<b>260,000</b>	<1.0	<0.5	<0.5	<b>1.4</b>	<b>4.4</b>	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	<b>14,000</b>	<b>73,000</b>	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/30/08	<b>11,000</b>	<b>68,000</b>	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	<b>7,600</b>	<b>63,000</b>	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/26/09	<b>9,400</b>	<b>75,000</b>	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<b>5,000</b>	-	-	-
	06/05/09	<b>22,000</b>	<b>95,000</b>	<b>54</b>	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	09/09/09	<b>20,000</b>	<b>91,000</b>	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<b>5,900</b>	-	-	-
	11/12/09	<b>6,900</b>	<b>20,000</b>	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	02/18/10	<b>11,000</b>	<b>24,000</b>	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	05/17/10	<b>8,200</b>	<b>19,000</b>	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	11/23/10	<b>20,000</b>	<b>36,000</b>	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>4,100</b>	<0.5	<0.5	-
05/20/11	<b>27,000</b>	<b>41,000</b>	<1.0	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<b>7,700</b>	-	-	-	
12/01/11	<b>20,000</b>	<b>33,000</b>	<1.0	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<b>2,500</b>	-	-	-	
05/23/12	<b>34,000</b>	<b>40,000</b>	<1.0	<b>5.0</b>	<b>9.0</b>	<b>3.4</b>	<b>17.5</b>	-	-	<1.0	<b>9,900</b>	-	-	-	
11/29/12	<b>26,000</b>	<b>33,000</b>	<1.0	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<b>8,600</b>	-	-	-	
05/22/13	<b>19,000</b>	<b>28,000</b>	<b>2.2</b>	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<b>3,700</b>	-	-	-	

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Sample ID	Date	8015M		8260B											8021
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE
MW-6	08/30/00	<b>1,300</b>	<b>1,300</b>	-	<b>55</b>	<0.5	16	27	-	-	-	-	-	-	<b>23,000</b>
	11/06/00	<630	<b>1,100</b>	<b>27,000</b>	<b>7</b>	<b>8.1</b>	<3.0	<b>5.2</b>	<630	<630	<630	<3,200	<630	<630	<b>26,000</b>
	02/22/01	<200	<b>420</b>	<b>8,000</b>	<5.0	<5.0	<5.0	<5.0	<100	<100	<100	<500	<100	<100	<b>6,500</b>
	05/07/01	<1,000	<b>900</b>	<b>40,000</b>	<2.0	<2.0	<1.0	<1.0	<500	<500	<500	<2,500	<500	<500	<b>37,000</b>
	08/22/01	<350	<b>520</b>	<b>8,800</b>	<2.0	<1.0	<0.5	<0.5	<200	<200	<200	<1,000	<200	<200	<b>8,600</b>
	11/04/01	<500	<b>420</b>	<b>17,000</b>	<2.0	<2.0	<0.5	<0.5	<250	<250	<250	<1,300	<250	<250	<b>12,000</b>
	02/15/02	<960	<b>910</b>	<b>26,000</b>	<b>2.6</b>	<b>4.5</b>	<1.0	4.2	<1,000	<1,000	<1,000	<5,000	<1,000	<1,000	<b>23,000</b>
	05/20/02	<620	<b>690</b>	<b>37,000</b>	<6.2	<6.2	<6.2	<6.2	<500	<500	<500	<5,000	<500	<500	<b>25,000</b>
	08/01/02	<250	<b>1,100</b>	<b>9,100</b>	<b>8</b>	<2.5	<2.5	<2.5	<170	<170	<170	<b>3,800</b>	<170	<170	<b>8,100</b>
	11/11/02	<500	<b>970</b>	<b>11,000</b>	<5.0	<5.0	<5.0	<5.0	<250	<250	<250	<b>8,600</b>	<250	<250	<b>11,000</b>
	02/12/03	<250	<b>2,100</b>	<b>8,300</b>	<2.5	<2.5	<2.5	<2.5	<120	<120	<120	<b>4,600</b>	<120	<120	<b>7,400</b>
	05/12/03	<1,000	<b>630</b>	<b>29,000</b>	<10	<10	<10	<10	<500	<500	<500	<b>8,700</b>	<500	<500	<b>32,000</b>
	08/11/03	<b>110</b>	<50	<b>2,300</b>	<b>6.8</b>	<1.0	<1.0	<1.0	<100	<100	<100	<b>27,000</b>	<100	<100	<b>2,800</b>
	01/09/04	<b>700</b>	<50	<b>690</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/14/04	<b>200</b>	<50	<b>190</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/21/04	<b>200</b>	<b>4.5</b>	<b>140</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>15,000</b>	<0.5	<0.5	-
	10/20/04	<b>7,700</b>	<b>1,300</b>	<b>3,400</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>77,000</b>	<0.5	<0.5	-
	03/19/05	<b>1,600</b>	<b>630</b>	<b>57</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>1,300</b>	<0.5	<0.5	-
	06/25/05	<b>400</b>	<b>630</b>	<b>58</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>3,600</b>	<0.5	<0.5	-
	09/17/05	<b>590</b>	<50	<b>28</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>5,300</b>	<0.5	<0.5	-
	12/26/05	<b>400</b>	<50	<b>92</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>4,500</b>	<0.5	<0.5	-
	03/23/06	<50	<50	<b>16</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/03/06	<50	<50	<b>13</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/30/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	<b>4,300</b>	<50	<b>84</b>	<0.5	<0.5	<0.5	<0.6	<b>19</b>	<1.0	<1.0	<b>30,000</b>	<0.5	<0.5	-
	02/28/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/20/07	<b>4,900</b>	<50	<b>120</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/25/07	<b>5,000</b>	<b>4,200</b>	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	<50	<50	<b>5.8</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
04/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
07/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
10/23/08	<b>540</b>	<50	<b>130</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(µg/l)

Sample ID	Date	8015M		8260B											8021
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE
MW-7	08/30/00	160,000	2,600	-	28,000	15,000	1,200	5,900	-	-	-	-	-	-	800,000
	11/06/00	80,000	1,700	920,000	23,000	12,000	1,200	5,000	<13,000	<13,000	<13,000	<63,000	<13,000	<13,000	540,000
	02/22/01	80,000	2,000	460,000	19,000	12,000	1,100	3,200	<5,000	<5,000	<5,000	<2,500	<5,000	<5,000	440,000
	02/22/01†	84,000	2,400	500,000	20,000	13,000	1,200	3,400	<5,000	<5,000	<5,000	<25,000	<5,000	<5,000	400,000
	05/07/01	100,000	7,600	520,000	25,000	16,000	1,700	6,600	<5,000	<5,000	<5,000	<2,500	<5,000	<5,000	460,000
	05/07/01†	100,000	8,200	500,000	25,000	17,000	1,700	6,700	<5,000	<5,000	<5,000	<25,000	<5,000	<5,000	530,000
	08/22/01	110,000	22,000	250,000	18,000	12,000	2,000	9,400	<5,000	<5,000	<5,000	<25,000	<5,000	<5,000	240,000
	11/04/01	85,000	6,500	180,000	17,000	2,700	2,100	9,700	<5,000	<5,000	<5,000	<13,000	<5,000	<5,000	150,000
	02/15/02	96,000	21,000	200,000	21,000	7,300	2,600	13,000	<5,000	<5,000	<5,000	<25,000	<5,000	<5,000	180,000
	02/15/02†	160,000	29,000	200,000	30,000	27,000	3,700	19,000	<5,000	<5,000	<5,000	<25,000	<5,000	<5,000	170,000
	05/20/02	140,000	310,000	220,000	24,000	21,000	3,800	20,000	<5,000	<5,000	<5,000	<50,000	<5,000	<5,000	180,000
	08/01/02	110,000	160,000	150,000	15,000	16,000	4,000	21,000	<2,500	<2,500	<2,500	<25,000	<2,500	<2,500	120,000
	11/11/02	110,000	240,000	77,000	14,000	11,000	4,100	19,000	<1,200	<1,200	<1,200	<12,000	<1,200	<1,200	74,000
	02/12/03	130,000	75,000	110,000	25,000	8,900	3,400	17,000	<1,700	<1,700	<1,700	<17,000	<1,700	<1,700	87,000
	05/12/03	98,000	7,100	220,000	25,000	520	2,600	12,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	140,000
	08/11/03	90,000	12,000	140,000	15,000	1,100	2,600	12,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	140,000
	01/09/04	130,000	18,000	120,000	9,500	340	190	3,700	<1.0	<1.0	900	<10	<0.5	420	-
	04/14/04	330,000	22	220,000	23,000	300	1,900	5,600	<1.0	<1.0	660	<10	<0.5	400	-
	07/21/04	120,000	14	71,000	11,000	730	1,000	1,250	<1.0	<1.0	370	<10	<0.5	300	-
	10/20/04	130,000	8.4	39,000	14,000	420	600	380	<1.0	<1.0	290	<10	<0.5	180	-
03/19/05	130,000	22,000	40,000	23,000	1,400	2,200	6,800	<1.0	<1.0	17	290	<0.5	29	-	
06/25/05	1,100,000	45,000	49,000	31,000	31,000	7,500	32,000	<1.0	<1.0	93	400	<0.5	75	-	
09/17/05	100,000	38,000	28,000	31,000	16,000	8,500	31,000	<1.0	<1.0	<1.0	7,400	<0.5	<0.5	-	
09/24/05	In-situ Chemical Oxidation (Ozone injection) commences														

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(µg/l)

Sample ID	Date	8015M		8260B											8021
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE
MW-7	12/26/05	99,000	33,000	14,000	20,000	6,000	1,700	11,900	<1.0	<1.0	<1.0	83,000	<0.5	<0.5	-
	03/23/06	160,000	48,000	2,400	23,000	22,000	13,000	43,000	<1.0	<1.0	44	14,000	<0.5	330	-
	06/03/06	170,000	44,000	9,000	48,000	5,200	5,600	23,200	<1.0	<1.0	55	4,800	<0.5	190	-
	08/30/06	240,000	62,000	3,600	77,000	12,000	30,000	63,000	<1.0	<1.0	77	300	<0.5	21	-
	12/04/06	110,000	44,000	3,300	7,200	490	950	2,800	20	<1.0	58	28,000	<0.5	86	-
	02/28/07	32,000	16,000	1,600	1,800	65	610	1,249	<1.0	<1.0	12	<10	<0.5	16	-
	05/29/07	29,000	64,000	1,700	920	18	180	272	<1.0	<1.0	15	<10	<0.5	28	-
	08/20/07	33,000	70,000	760	2,000	22	86	120	<1.0	<1.0	13	<10	<0.5	45	-
	10/25/07	41,000	83,000	1,300	3,800	53	380	1,521	<1.0	<1.0	18	<10	<0.5	65	-
	01/25/08	32,000	48,000	4,500	3,000	55	170	853	12	<1.0	56	<10	<0.5	96	-
	04/30/08	34,000	44,000	4,500	1,900	12	90	192.1	15	<1.0	61	<10	<0.5	61	-
	07/30/08	56,000	54,000	5,100	3,300	25	38	270	15	<1.0	67	<10	<0.5	84	-
	10/23/08	25,000	47,000	1,800	800	12	19	135	<1.0	<1.0	23	<10	<0.5	25	-
	03/26/09	64,000	62,000	5,000	4,300	48	21	266	-	-	58	65,000	-	-	-
	06/05/09	74,000	75,000	8,000	4,800	2.7	18	38	-	-	82	<10	-	-	-
	09/09/09	83,000	94,000	3,600	2,800	41	29	211	-	-	290	310,000	-	-	-
	11/12/09	25,000	32,000	1,500	2,000	16	24	141	-	-	11	<10	-	-	-
	02/18/10	39,000	38,000	2,200	2,800	24	47	101.5	-	-	49	36,000	-	-	-
	05/17/10	36,000	40,000	5,800	3,800	110	88	218	-	-	50	24,000	-	-	-
	11/23/10	48,000	51,000	4,200	1,600	77	34	371	<1.0	<1.0	13	78,000	<0.5	27	-
05/20/11	42,000	50,000	680	280	12	2.2	36	-	-	5.0	12,000	-	-	-	
12/01/11	22,000	29,000	600	1,900	16	59	78.2	-	-	8.0	25,000	-	-	-	
05/23/12	56,000	62,000	1,900	2,800	31	180	158	-	-	35	74,000	-	-	-	
11/29/12	50,000	52,000	1,200	1,100	23	12	187	-	-	<1	92,000	-	-	-	
05/22/13	40,000	43,000	530	740	12	7.4	48.4	-	-	11	35,000	-	-	-	

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(µg/l)

Sample ID	Date	8015M		8260B											8021
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE
MW-8	08/30/00	<1,000	<b>690</b>	-	<b>18</b>	<2.0	<1.0	<1.0	-	-	-	-	-	-	<b>28,000</b>
	11/06/00	<3,300	<b>810</b>	<b>76,000</b>	<8.0	<5.0	<3.0	<7.0	<2,500	<2,500	<2,500	<13,000	<2,500	<2,500	<b>120,000</b>
	02/22/01	<2,500	<b>1,100</b>	<b>130,000</b>	<b>53</b>	<3.0	<3.0	<3.0	<2,000	<2,000	<2,000	<10,000	<2,000	<2,000	<b>99,000</b>
	05/07/01	<5,000	<b>1,300</b>	<b>120,000</b>	<b>32</b>	<10	<5.0	<5.0	<2,500	<2,500	<2,500	<13,000	<2,500	<2,500	<b>110,000</b>
	08/22/01	<4,000	<b>1,200</b>	<b>86,000</b>	<5.0	<5.0	<5.0	<b>16</b>	<1,700	<1,700	<1,700	<8,500	<1,700	<1,700	<b>76,000</b>
	11/04/01	<b>590</b>	<b>1,100</b>	<b>49,000</b>	<b>6.9</b>	<0.5	<0.5	<0.5	<2,500	<2,500	<2,500	<13,000	<2,500	<2,500	<b>60,000</b>
	02/15/02	<3,400	<b>1,500</b>	<b>91,000</b>	<5.0	<5.0	<5.0	<5.0	<2,500	<2,500	<2,500	<12,500	<2,500	<2,500	<b>110,000</b>
	05/20/02	<1,700	<b>2,200</b>	<b>86,000</b>	<17	<17	<17	<17	<1,000	<1,000	<1,000	<10,000	<1,000	<1,000	<b>66,000</b>
	08/01/02	<1,200	<b>2,800</b>	<b>67,000</b>	<12	<12	<12	<12	<1,000	<1,000	<1,000	<10,000	<1,000	<1,000	<b>53,000</b>
	11/11/02	<2,000	<b>11,000</b>	<b>51,000</b>	<10	<b>18</b>	<10	<10	<1,000	<1,000	<1,000	<10,000	<1,000	<1,000	<b>48,000</b>
	02/12/03	<1,700	<b>5,800</b>	<b>51,000</b>	<17	<17	<17	<17	<1,000	<1,000	<1,000	<10,000	<1,000	<1,000	<b>49,000</b>
	05/12/03	<2,500	<b>4,500</b>	<b>60,000</b>	<b>94</b>	<25	<25	<25	<1,000	<1,000	<1,000	<10,000	<1,000	<1,000	<b>52,000</b>
	08/11/03	<2,500	<b>23,000</b>	<b>42,000</b>	<b>92</b>	<25	<25	<25	<1,000	<1,000	<1,000	<10,000	<1,000	<1,000	<b>42,000</b>
	01/09/04	<b>51,000</b>	<b>12,000</b>	<b>50,000</b>	<b>2.4</b>	<0.5	<0.5	<b>2.1</b>	<1.0	<1.0	160	<10	<1.0	<1.0	-
	03/19/05	<b>80,000</b>	<b>100,000</b>	<b>13,000</b>	<b>45</b>	<b>38</b>	<b>77</b>	<b>530</b>	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/25/05	<b>60,000</b>	<b>82,000</b>	<b>1,600</b>	<b>18</b>	<b>5.9</b>	<b>3</b>	<b>54</b>	<1.0	<1.0	12	<b>3,700</b>	<0.5	<0.5	-
	09/17/05	<b>80,000</b>	<b>89,000</b>	<b>1,400</b>	<b>23</b>	<b>2.7</b>	<0.5	<b>25</b>	<1.0	<1.0	17	<b>88,000</b>	<0.5	<0.5	-
09/24/05	In-situ Chemical Oxidation (Ozone injection) commences														

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(µg/l)

Sample ID	Date	8015M		8260B											8021
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE
MW-8	12/26/05	<b>24,000</b>	<b>37,000</b>	<b>180</b>	<b>270</b>	<b>65</b>	<b>14</b>	<b>127</b>	<1.0	<1.0	<1.0	<b>11,000</b>	<0.5	<0.5	-
	03/23/06	<b>1,200</b>	<b>4,000</b>	<b>310</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>880</b>	<0.5	<0.5	-
	06/03/06	<b>1,800</b>	<b>4,800</b>	<b>390</b>	<b>60</b>	<b>9.9</b>	<b>7.3</b>	<b>11.6</b>	<1.0	<1.0	<b>3</b>	<b>2,100</b>	<0.5	<0.5	-
	08/30/06	<b>6,000</b>	<b>6,200</b>	<1.0	<b>36</b>	<b>6.1</b>	<b>12</b>	<b>29.5</b>	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	<b>400</b>	<b>2,800</b>	<b>31</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>2,400</b>	<0.5	<0.5	-
	02/28/07	<b>3,100</b>	<b>5,200</b>	<b>83</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	<b>6,000</b>	<b>39,000</b>	<b>54</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/20/07	<b>11,000</b>	<b>50,000</b>	<b>11</b>	<0.5	<0.5	<0.5	<b>3</b>	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/25/07	<b>8,200</b>	<b>44,000</b>	<b>7.2</b>	<0.5	<0.5	<0.5	<b>3.6</b>	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	<b>7,400</b>	<b>41,000</b>	<1.0	<0.5	<0.5	<0.5	<b>3.6</b>	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	<b>8,000</b>	<b>2,900</b>	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/30/08	<b>14,000</b>	<b>4,000</b>	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	<b>20,000</b>	<b>8,500</b>	<b>88</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/26/09	<b>11,000</b>	<b>5,900</b>	<b>36</b>	<0.5	<0.5	<0.5	<0.6	-	-	<b>11</b>	<b>14,000</b>	-	-	-
	06/05/09	<b>20,000</b>	<b>18,000</b>	<b>65</b>	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	09/09/09	<b>14,000</b>	<b>17,000</b>	<b>29</b>	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<b>9,200</b>	-	-	-
	11/12/09	<b>5,400</b>	<b>6,800</b>	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	02/18/10	<b>4,400</b>	<b>6,000</b>	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<b>15,000</b>	-	-	-
	05/17/10	<b>4,400</b>	<b>6,800</b>	<b>22</b>	<b>5.3</b>	<0.5	<0.5	<0.6	-	-	<1.0	<b>11,000</b>	-	-	-
	11/23/10	<b>16,000</b>	<b>22,000</b>	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<b>3,800</b>	-	-	-
05/20/11	<b>2,800</b>	<b>5,900</b>	<1.0	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<10	-	-	-	
12/01/11	<b>140</b>	<b>1,700</b>	<b>8.8</b>	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<b>2,000</b>	-	-	-	
05/23/12	<b>4,900</b>	<b>4,800</b>	<b>13</b>	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<b>9,700</b>	-	-	-	
11/29/12	<b>4,900</b>	<b>4,500</b>	<b>18</b>	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<b>13,000</b>	-	-	-	
05/22/13	<b>1,400</b>	<b>1,800</b>	<b>4.7</b>	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<b>2,800</b>	-	-	-	

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(µg/l)

Sample ID	Date	8015M		8260B											8021
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE
MW-9	08/30/00	<50	<b>770</b>	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<b>97</b>
	11/06/00	<50	<b>390</b>	<b>220</b>	<0.5	<0.5	<0.5	<0.5	<25	<25	<25	<125	<5.0	<5.0	<b>190</b>
	02/22/01	<50	<b>240</b>	<b>160</b>	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	<b>120</b>
	05/07/01	<50	<b>190</b>	<b>150</b>	<0.5	<0.5	<0.5	<0.5	<2.5	<2.5	<2.5	<13	<2.5	<2.5	<b>120</b>
	08/22/01	<50	<b>120</b>	<b>120</b>	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<b>120</b>
	11/04/01	<50	<b>160</b>	<b>120</b>	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<b>130</b>
	02/15/02	<50	<b>150</b>	<b>98</b>	<0.5	<0.5	<0.5	<0.5	<2.5	<2.5	<2.5	<12.5	<2.5	<2.5	<b>92</b>
	05/20/02	<50	<b>380</b>	<b>85</b>	<0.5	<0.5	<0.5	<0.5	<2.5	<2.5	<2.5	<25	<2.5	<2.5	<b>79</b>
	08/01/02	<50	<b>320</b>	<b>84</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<b>74</b>
	11/11/02	<50	<b>150</b>	<b>61</b>	<0.5	<0.5	<0.5	<0.5	<2.5	<2.5	<2.5	<25	<2.5	<2.5	<b>76</b>
	02/12/03	<50	<b>350</b>	<b>50</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<b>55</b>
	05/12/03	<50	<b>380</b>	<b>45</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<b>45</b>
	08/11/03	<50	<b>88</b>	<b>42</b>	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<b>36</b>
	01/09/04	<b>200</b>	<50	<b>140</b>	<0.5	<0.5	<0.5	<b>4.7</b>	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/14/04	<b>180</b>	<50	<b>180</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/21/04	<50	<50	<b>24</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/20/04	<b>80</b>	<50	<b>78</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/19/05	<b>100</b>	<50	<b>87</b>	<b>10</b>	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/25/05	<b>100</b>	<50	<b>92</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	09/17/05	<b>100</b>	<50	<b>85</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/26/05	<50	<50	<b>19</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/23/06	<50	<50	<b>19</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/03/06	<50	<50	<1.0	<b>7.7</b>	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/30/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	<50	<50	<b>34</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	02/28/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/20/07	<50	<50	<b>3.8</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/25/07	<50	<50	<b>8.9</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	<50	<50	<b>3.5</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
04/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
07/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
10/23/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
11/12/09	<50	-	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-	
11/23/10	<50	-	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
12/01/11	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<10	-	-	-	

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1107 5th Street, Oakland, California  
(µg/l)

Sample ID	Date	8015M		8260B											8021	
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE	
MW-10	08/01/02	<50	<b>720</b>	<b>1.1</b>	<b>1</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<5.0
	11/11/02	<50	<b>100</b>	<b>0.7</b>	<b>0.72</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<5.0
	02/12/03	<50	<b>71</b>	<0.5	<b>0.63</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<5.0
	05/12/03	<50	<b>96</b>	<b>0.59</b>	<b>0.56</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<5.0
	08/11/03	<50	<b>110</b>	<b>0.73</b>	<b>0.93</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<5.0
	01/09/04	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/14/04	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/21/04	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/20/04	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/19/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/25/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	09/17/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/26/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/23/06	<50	<50	<1.0	<b>8.5</b>	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/03/06	<50	<50	<1.0	<b>3.9</b>	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/30/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	02/28/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/20/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
10/25/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
01/25/08	<50	<50	<1.0	<b>3.2</b>	<0.5	<b>1.2</b>	<b>1.3</b>	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
04/30/08	<b>600</b>	<50	<1.0	<0.5	2.4	<0.5	<b>40</b>	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
07/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
10/23/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	



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Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(µg/l)

Sample ID	Date	8015M		8260B											8021
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE
MW-11	05/20/02	<50	<b>95</b>	<b>310</b>	<b>1.5</b>	<b>3</b>	<0.5	<b>1.4</b>	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<b>260</b>
	08/01/02	<50	<b>190</b>	<b>65</b>	<0.5	<b>1.9</b>	<b>0.6</b>	<0.5	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<b>52</b>
	11/11/02	<50	<b>140</b>	<b>15</b>	<0.5	<b>2.1</b>	<b>1.1</b>	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<b>23</b>
	02/12/03	<50	<b>86</b>	<b>2.6</b>	<0.5	<b>1.7</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<5.0
	05/12/03	<50	<b>62</b>	<b>2.3</b>	<0.5	<b>1.1</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<5.0
	08/11/03	<50	<b>72</b>	<b>2.3</b>	<0.5	<b>0.66</b>	<0.5	<0.5	<1.0	<1.0	<1.0	<5.0	<0.5	<0.5	<5.0
	01/09/04	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/14/04	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/21/04	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/20/04	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-
	03/19/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/25/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	09/17/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/26/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/23/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/03/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/30/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	02/28/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/20/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/25/07	<b>110</b>	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
04/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
07/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
10/23/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES**  
 Rino Pacific/Oakland Truck Stop  
 1107 5th Street, Oakland, California  
 (µg/l)

Sample ID	Date	8015M		8260B											8021
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE
MW-12	10/20/04	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/19/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/25/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	09/17/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/26/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/23/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/03/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/30/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	02/28/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/20/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/25/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
11/12/09	<50	-	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-	
11/23/10	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC
MW-12 destroyed on 04 October 2011															

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(µg/l)

Sample ID	Date	8015M		8260B											8021
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE
MW-13	10/20/04	<b>100</b>	<50	<b>99</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/19/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/25/05	<50	<50	<b>31</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	09/17/05	<50	<50	<b>40</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/26/05	<50	<50	<b>17</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/23/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/03/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/30/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	<50	<50	<b>63</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	02/28/07	<50	<50	<b>6.5</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	<50	<50	<b>41</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/20/07	<50	<50	<b>6.7</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/25/07	<50	<50	<b>15</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	<50	<50	<b>64</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	-	-	-
11/12/09	<50	<50	<b>25</b>	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-	
11/23/10	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC
MW-13 destroyed on 04 October 2011															

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(µg/l)

Sample ID	Date	8015M		8260B											8021	
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE	
MW-13R	12/01/11	<50	<50	<b>20</b>	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<10	-	-	-	
	11/29/12	<50	<50	<1	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<10	-	-	-	
MW-14	10/20/04	<b>490</b>	<50	<b>90</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	03/19/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	06/25/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	09/17/05	<50	<50	<b>12</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	09/24/05	In-situ Chemical Oxidation (Ozone injection) commences														
	12/26/05	<50	<50	<b>6.1</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	03/23/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	06/03/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	08/30/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	12/04/06	<50	<50	<b>36</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	02/28/07	<50	<50	<b>8.7</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	05/29/07	<50	<50	<b>59</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	08/20/07	<50	<50	<b>10</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	10/25/07	<b>150</b>	<50	<b>140</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	01/25/08	<50	<50	<b>120</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	04/30/08	<b>220</b>	<50	<b>210</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	07/30/08	<50	<50	<b>41</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	10/23/08	<50	<50	<b>36</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-	
	03/26/09	<50	<50	<b>26</b>	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-	
	06/05/09	<b>500</b>	<b>1,200</b>	<b>40</b>	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-	
	09/09/09	<b>390</b>	<b>1,800</b>	<b>160</b>	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-	
	11/12/09	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-	
	02/18/10	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-	
05/17/10	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-		
11/23/10	<b>140</b>	<50	<b>49</b>	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<b>110</b>	<0.5	<0.5	-		
05/20/11	<b>120</b>	<50	<b>100</b>	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<10	-	-	-		
05/23/12	<b>1,000</b>	<b>880</b>	<b>300</b>	<b>54</b>	<b>2.3</b>	<b>3.6</b>	<b>5.7</b>	-	-	<b>2.2</b>	<b>290</b>	-	-	-		
05/22/13	<b>5,000</b>	<b>6,600</b>	<b>62</b>	<b>21</b>	<b>1.7</b>	<b>1.8</b>	<b>4.8</b>	-	-	<1.0	<10	-	-	-		

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES**  
Rino Pacific/Oakland Truck Stop  
1107 5th Street, Oakland, California  
(µg/l)

Sample ID	Date	8015M		8260B											8021
		TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	MTBE
MW-15	10/25/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	11/12/09	<50	-	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	11/23/10	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC
	12/01/11	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<10	-	-	-
	11/29/12	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<10	-	-	-
MW-16	01/25/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	11/12/09	<50	-	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	11/23/10	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC
Destroyed in 2011															

**Notes:**

µg/l:	micrograms per liter	1,2-DCA:	1,2-dichloroethane	ND:	Non-detect above minimum laboratory detection levels
†:	duplicate sample	MTBE:	methyl tertiary-butyl ether	NOACC	No Access
- :	not analyzed	DIPE:	di-isopropyl ether		
TPH-d	total petroleum hydrocarbons quantified as diesel	ETBE:	ethyl tertiary-butyl ether		
TPH-g:	total petroleum hydrocarbons quantified as gasoline	TAME:	tertiary-amyl methyl ether		
EDB:	1,2-dibromoethane	TBA:	tertiary-butyl alcohol		

# **APPENDIX A**

*Site Background Information*

**APPENDIX A**  
HISTORICAL BACKGROUND  
Rino Pacific - Oakland Truck Stop  
1107 5<sup>th</sup> Street, Oakland, California

A.1. BACKGROUND

The site is located at 1107 5<sup>th</sup> Street in a commercial and industrial area of west Oakland, California (Figure 1). The property contains a service station building, four fuel dispenser islands, a truck scale, scale house, and two underground storage tanks (USTs). The site has been operating as a truck stop for the past 40 years.

A.2. REGIONAL GEOLOGIC/HYDROGEOLOGIC SETTING

The site is situated within the Coast Range Geomorphic Province of California. This geomorphic province contains coastal foothills and mountains and extends from the Tehachapi Mountains in the south to the Klamath Mountains in the north. The western and eastern boundaries of this province are comprised of the Pacific Ocean and the Great Valley Geomorphic Province, respectively.

The site is located in the Franciscan Complex, which is subdivided into four major divisions identified as the Northern Coast Range, the Franciscan Block, the Diablo Range, and the Nacimiento Block. The site is situated within the Franciscan Block, an assemblage of variably deformed and metamorphosed rock units. The surface is composed of Quaternary alluvium; at depth, the site is underlain by rocks of the Franciscan Complex, which are composed predominately of detrital sedimentary rocks with volcanic tuffs and deep ocean marine sediments. The Franciscan lithologies typically have low porosity and permeability.

Based upon the General Soil Map from the *Soil Survey of Alameda County, Western Part*, issued by the United States Department of Agriculture Soil Conservation Service in 1981, the site area is situated within the Urban Land-Danville complex. This complex is located on low terraces and alluvial fans at an elevation of about 20 feet to 300 feet above mean sea level (MSL), and consists of approximately 60% Urban Land, 30% Danville soil, and 10% other soils. Danville soil is a silty clay loam that formed in alluvium originating primarily from sedimentary rock; Urban land consists of areas covered by roads, parking lots, and buildings. The nearest surface water feature in the vicinity of the property is the Oakland Estuary, approximately 2,400 feet to the south of the property.

Beginning in October 1996, ground water monitoring has been conducted at the site to assess the seasonal variation of elevation, gradient, and flow direction, and to define the impact of petroleum hydrocarbon compounds and fuel oxygenating compounds in shallow ground water beneath the site. Based on data from previous monitoring events, ground water at the property varies seasonally between approximately 10 inches to 6 feet below surface grade (bsg). The ground water flow has varied from southwest to north. This may be affected by changing recharge and discharge patterns, as well as leaking pipes.

## A.2. UNDERGROUND STORAGE TANK REMOVAL

In March 1999, two 10,000-gallon diesel USTs, one 10,000-gallon gasoline UST, and one 8,000-gallon gasoline UST were removed from the site. The approximate location of the former USTs is shown on Figure 2.

Interim remedial action was performed during the UST removal to address contaminated soil and ground water. Approximately 2,100 tons of contaminated soil were removed from the excavation. Soil samples were collected from the excavation and stockpiles as directed by the Fire Inspector. Contaminated ground water was removed from the excavation pit; approximately 33,000 gallons of water were pumped into temporary storage tanks, which were then transported and disposed off-site. Approximately 1,700 tons of backfill was placed in the excavation. Results of the soil samples taken during the excavation are not available.

## A.3. SITE ASSESSMENT ACTIVITIES

In November 1996, ground water monitoring wells MW-1 through MW-3 were installed to a depth of 20 feet bsg to assess contamination from an unauthorized release of fuel, which was repaired as soon as it was discovered. Product recovery sumps equipped with skimmers were installed in the wells and approximately 6 gallons of gasoline were recovered.

Monitoring well MW-2 was destroyed in January 1999. Additional monitoring wells MW-4 through MW-9 were installed to a total depth of 20 feet bsg in August 2000. Contamination was detected in each of the wells, and free product was occasionally evident in well MW-7.

Monitoring wells MW-10 and MW-11 were installed in May 2002 to a total depth of 12 feet bsg. At this time, well MW-3 was abandoned and well MW-3N was installed to a depth of 12 feet bsg.

In July 2002, eight soil borings were advanced on 5<sup>th</sup> Street and Chestnut Street to total depths between 5 feet and 8 feet bsg to determine if contamination was migrating off-site along preferential pathways (i.e. utility trenches). Sample results indicated high methyl tertiary-butyl ether (MTBE) concentrations that ranged from 170,000 micrograms per liter ( $\mu\text{g/l}$ ) to 460,000  $\mu\text{g/l}$  in grab ground water samples from borings drilled directly north of the site, along the 5<sup>th</sup> Street sewer line. Borings east of the site had little to no contamination.

In January 2003, a passive skimmer was placed inside monitoring well MW-7 to remove free product. During monitoring activities in April 2004, free-product was noted in MW-8. The passive skimmer in MW-7 was moved to MW-8 to remove the free product.



In October 2004, three pilot borings were advanced at the site to install three ground water monitoring wells MW-12 through MW-14. Wells MW-12 and MW-13 were installed in the 5th Street right of way to the north of the property to a vertical depth of 20 feet bsg and completed as ground water monitoring wells using 2-inch diameter polyvinylchloride (PVC) casing with a 0.020-inch slotted screen installed from 5 feet to 20 feet bsg. Well MW-14 was installed in the northeast corner of the site with the same construction as wells MW-12 and MW-13. A total of three soil samples, taken from the monitoring well pilot borings, were analyzed for petroleum hydrocarbon constituents. In sample MW14-10, 1.8 milligrams per kilogram (mg/kg) TPH-d and 2.0 mg/kg MTBE were detected.

On 05 through 07 and 18 July 2006, seven soil borings (P1 through P7) were advanced on-site to depths of 20 feet bsg with direct-push technology (P6 and P7) and 40 feet bsg (P1 through P5) with a hollow-stem auger drill rig. All borings were continuously cored from surface grade to total depth. Soil and grab ground water samples were collected at selected intervals based on lithology encountered during drilling; grab ground water samples were collected from borings advanced immediately adjacent to P1 through P5, and at total depth in borings P6 and P7. Soil samples were collected between depths of 6 feet and 40 feet bsg from borings P1 through P7 and analyzed for petroleum hydrocarbon constituents. TPH-g was detected in soil samples P1-6, P1-21, P2-8, and P4-7 at concentrations of 210 mg/kg, 2.6 mg/kg, 110 mg/kg, and 10 mg/kg, respectively. TPH-d was detected in samples P1-6, P2-8, and P4-7 at concentrations of 7,600 mg/kg, 680 mg/kg, and 13,000 mg/kg, respectively.

Grab ground water samples were collected from soil borings advanced immediately adjacent to P1 through P5 at selected sandy zones between 10 feet and 35 feet bsg, and from borings P6 and P7 at a depth of 20 feet bsg. TPH-g was detected in boring P1 at 20 feet and 35 feet bsg, in boring P4 at 10 feet bsg, in boring P5 at 10 feet and 35 feet bsg, and in borings P6 and P7 at 20 feet bsg at concentrations ranging from 130 µg/l (P6-20-W) to 38,000 µg/l (P4-W-10). TPH-d was detected in boring P1 at 20 feet and 35 feet bsg, in boring P4 at 10 feet bsg, and in boring P7 at 20 feet bsg at concentrations ranging from 4,500 µg/l (P1-W-35) to 350,000 µg/l (P4-W-10). BTEX constituents were detected in boring P1 at 20 feet and 35 feet bsg, P5 at 10 feet and 35 feet bsg, and P6 at 20 feet bsg at maximum concentrations of 110 µg/l benzene (P1-W-20), 36 µg/l toluene (P5-W-10), 13 µg/l ethylbenzene (P1-W-35), and 17.3 µg/l total xylenes (P1-W-20). MTBE was detected in samples collected from boring P1 at 20 feet and 35 feet bsg, in boring P4 at 10 feet bsg, in boring P5 at 10 feet and 35 feet bsg, and in borings P6 and P7 at 20 feet bsg at concentrations ranging from 4.1 µg/l (P6-20-W) to 11,000 µg/l (P1-W-20). TAME was detected in boring P1 at 20 feet and 35 feet bsg, in boring P4 at 10 feet bsg, and in boring P5 at 10 feet bsg at concentrations ranging from 3.4 µg/l (P5-W-10) to 17 µg/l (P1-W-20). The lead scavenger 1,2-DCA was detected in boring P1 at 20 feet and 35 feet bsg at concentrations of 4.7 µg/l and 3.4 µg/l, respectively. Benzene was detected in sample P1-21 at a concentration of 0.014 mg/kg. Toluene, ethylbenzene, and xylenes were detected in sample P2-8 at concentrations of 0.22 mg/kg, 0.62 mg/kg, and 4.2 mg/kg,

respectively.

In September 2007, AGE installed ground water monitoring wells MW-15 and MW-16 and conducted ground water assessment at the site utilizing CPT. The wells were installed off-site in the City of Oakland right-of-way approximately 160 feet northeast and 100 feet northwest (down-gradient) of the former UST area, respectively, to total depths of approximately 20.5 feet bsg and completed with 15 feet of well screen section extending from approximately 5 to 20 feet bsg.

A total of three borings (CPT-1 through CPT-3) were advanced to collect subsurface lithologic data and to collect discrete ground water samples. Two CPT borings were advanced on the eastern portion of the site to assess the vertical extent of petroleum hydrocarbon-impacts to ground water. One CPT boring was advanced off-site, in the northwest parking area of 5<sup>th</sup> Street, to assess the lateral and vertical extent of petroleum hydrocarbon impacts to ground water. Soil boring CPT-1 was advanced approximately 110 feet northwest of the northwest corner of the site. Soil borings CPT-2 and CPT-3 were advanced approximately 100 feet southeast and east of the former USTs located on the central portion of the site, respectively. Due to refusal the total depths of the lithologic soundings in borings CPT-1, CPT-2, and CPT-3 were 52 feet bsg, 52 feet bsg, and 54 feet bsg, respectively.

There were no reported detections of BTEX compounds in any of the soil samples collected for laboratory analysis. TPH-d was detected in two of the six soil samples collected at a reported concentration of 1.4 milligrams per kilograms (mg/kg; MW-15-6.5 feet) and 3.3 mg/kg (MW-16-6.5 feet). However, the laboratory report indicates that the results in sample MW-15-6.5 feet do not resemble a fuel pattern, and that the TPH-d results in sample MW-16-6.5 feet are primarily due to overlap from a heavy oil range product. TPH-g was detected in soil sample MW-15-6.5 feet at a reported concentration of 1.4 mg/kg.

Benzene was detected at concentrations of 2.0 micrograms per liter ( $\mu\text{g/l}$ ), 8.0  $\mu\text{g/l}$ , 10  $\mu\text{g/l}$ , and 13  $\mu\text{g/l}$  for samples CPT-2C, CPT-2B, CPT-3C, and CPT-3B, respectively. Toluene was detected at concentrations of 0.67  $\mu\text{g/l}$ , 1.1  $\mu\text{g/l}$ , 3.4  $\mu\text{g/l}$ , and 13  $\mu\text{g/l}$  for samples CPT-3C, CPT-3B, CPT-2C, and CPT-2B, respectively. Ethylbenzene was detected at a concentration of 0.57  $\mu\text{g/l}$ , 1.3  $\mu\text{g/l}$ , 1.9  $\mu\text{g/l}$ , and 10  $\mu\text{g/l}$  for samples CPT-2C, CPT-2B, CPT-3C, and CPT-3B, respectively. Total xylenes were detected at concentrations of 2.1  $\mu\text{g/l}$ , 2.7  $\mu\text{g/l}$ , 5.5  $\mu\text{g/l}$ , and 1.3  $\mu\text{g/l}$  for samples CPT-3C, CPT-2C, CPT-2B, and CPT-3B, respectively. There were no reported detections of BTEX compounds in ground water samples collected from boring CPT-1.

TPH-d was detected in three of the seven ground water samples collected; at concentrations of 54  $\mu\text{g/l}$ , 190  $\mu\text{g/l}$ , and 240  $\mu\text{g/l}$  in samples CPT-2C, CPT-3B, and CPT-3C, respectively. There were no reported detections of TPH-d in A-zone ground water samples CPT-2B, CPT-1A, CPT-1B or CPT-1C. TPH-g was detected in three of the seven

ground water samples collected; at concentrations of 69 µg/l, 270 µg/l, and 410 µg/l in samples CPT-2B, CPT-3C, and CPT-3B, respectively. There were no reported detections of TPH-g in ground water samples CPT-2C, CPT-1A, CPT-1B or CPT-1C. MTBE was detected in three the seven ground water samples collected for analysis. MTBE was detected at concentration of 0.61 µg/l, 0.93 µg/l, and 16 µg/l in ground water samples CPT-2C, CPT-3B, and CPT-3C. There were no reported detections of MTBE in ground water samples CPT-2B, CPT-1A, CPT-1B or CPT-1C.

In July 2008, AGE conducted the additional subsurface investigation at the site utilizing 25-ton truck mounted CPT drill rig. A total of three borings (CPT-4 through CPT-6) were advanced to collect subsurface lithologic data and to collect discrete ground water samples. CPT boring (CPT-4) was advanced on-site, approximately 40 feet northeast of the former UST area. CPT boring CPT-5 was advanced off-site, in the dirt area on the north side of 5<sup>th</sup> Street. CPT boring CPT-6 was advanced east of the site, on the eastern edge of Chestnut Street. Due to refusal, the total depths of the lithologic soundings in borings CPT-4, CPT-5, and CPT-6 were 49 feet bsg, 47 feet bsg and 45 feet bsg respectively. A total of seven ground water samples were collected from borings CPT-4 through CPT-5 and submitted for laboratory analysis. No contaminants of concern were detected in any of the samples analyzed.

#### A.4. SITE REMEDIATION ACTIVITIES

In March 2004, a total of ten pilot borings were advanced to 12.5 feet bsg at the site to install ten ozone sparge wells (OZ-1 through OZ-10). The microporous sparge interval was set at 10 to 12 feet bsg.

In October 2004, ten pilot borings were advanced to install ten ozone sparge wells OZ-11 through OZ-20. The sparge wellw were completed with a manufacturer-assembled, 2-inch by 24-inch microporous sparge interval from 11 to 13 feet bsg and blank 1-inch casing extended to the surface. The filter pack was installed from 9 feet to 15 feet bsg.

During the first quarter 2005, AGE completed the installation of the interim remediation system subsurface piping network. All tubing was encased in Schedule 80 polyvinylchloride (PVC) piping.

On 24 September 2005, two ozone sparge systems were installed on-site and started; initiation of the ozone sparge system was delayed upon the client's request, as demolition activities were being conducted on-site.

On 13 March 2007, AGE personnel directed the destruction of five ozone injection wells (OZ6, OZ7, OZ10, OZ16 and OZ17) in preparation for truck scale upgrade activities to be performed by the property's lessee and CAT Scale. In preparation for destruction of ozone

injection wells OZ6, OZ7, OZ10, OZ16 and OZ17 all material within the original boreholes, including the well casings, filter pack, annular seal, and well cover boxes were over-drilled utilizing a CME-HT drill rig equipped with 10-inch, hollow stem augers. Following over-drilling activities, each borehole was backfilled with a cement grout mixture to surface grade.

Hydrocarbon-impacted soil surrounding the existing truck scale was excavated as part of truck scale removal and upgrade activities. Soil was removed to a depth of approximately six feet bsg using an excavator. Soil surrounding the existing truck scale was excavated by representatives of CAT Scale. The excavation provided the removal of a significant amount of petroleum hydrocarbon-impacted soil within the present vadose and smear zones. The soil was removed using an excavator to a total depth of approximately 6 feet bsg. While soil was excavated, trucks were immediately loaded for transportation to Keller Canyon Landfill in Pittsburg, California. The impacted soil was transported by Intrinsic Transportation, Inc, of Santa Rosa, California and JT & T Enterprises of Cotati, California under non-hazardous waste manifest. According to total sum of truck weight tickets 543.76 tons or approximately 367 cubic yards of soil were disposed. The excavation was backfilled with clean fill sand and pea gravel mixtures. The fill material placed in the excavation and was compacted by representatives of CAT Scale. In addition, the installation of the scale was conducted by representatives of CAT Scale.

TPH-d-range petroleum hydrocarbons were detected at concentrations ranging from 95 mg/kg to 9,800 mg/kg (Table 1). TPH-g-range petroleum hydrocarbons were detected at concentrations ranging from 1.0 mg/kg to 50 mg/kg (Table 1). Benzene concentrations ranged from 0.020 mg/kg to 0.20 mg/kg. Toluene concentrations ranged from 0.018 mg/kg to 0.020 mg/kg. Ethylbenzene concentrations ranged from 0.014 mg/kg to 0.028 mg/kg. Total xylene concentrations ranged from 0.020 mg/kg to 0.044 mg/kg. MTBE was detected in 12 of the 13 soil samples at concentrations ranging from 0.030 mg/kg to 2.6 mg/kg. The reported concentrations of TAME ranged from 0.011 mg/kg to 0.90 mg/kg.

Based on the analytical results gathered from the floor and the sidewalls of the excavation, it appears that moderate to elevated levels of petroleum hydrocarbon-impacts to soil remain at depths of approximately six feet bsg on the northwest portion of the site.

After completion of the truck scale upgrade by CAT Scale, AGE personnel directed the advancement of five pilot soil borings at the site for the re-installation of ozone injection wells OZ6R, OZ7R, OZ10R, OZ16R and OZ17R.

The ozone well pilot soil borings were completed as single-level ozone injection wells with manufacturer-assembled, 2-inch by 24-inch microporous sparge points set from approximately 11 feet to 13 feet bsg.

From September 2005 to July 2007 the systems injected ozone for a ½-hour duration into two ozone injection points at a time. A total of ten ozone injection wells, in conjunction with

the south unit, have been on-line throughout the majority of the Second Quarter 2007. The north unit has been shut down since 13 Mach 2007 due to the destruction of ozone wells OZ6, OZ7, OZ10, OZ16, and OZ17; however, the north unit was brought back on-line 27 July 2007 subsequent to re-plumbing the recently installed ozone injection points. Both the north and south unit systems currently inject ozone for a 1-hour duration into one ozone injection points at a time.

The monitoring of geochemical parameters had been discontinued as of the second quarter 2009, but was resumed on 05 October 2010 until the ozone systems became non-operational in January 2011. A summary of geochemical parameters and the ozone systems operation and maintenance activities thus far were presented in Table 4 and Table 5 of the AGE-prepared, *First Semi-Annual Report - 2011 (January to June)*.

# **APPENDIX B**

*Monitoring and Sampling Procedures*

**APPENDIX B**  
**MONITORING AND SAMPLING PROCEDURES**  
Rino Pacific - Oakland Truck Stop  
1107 5<sup>th</sup> Street, Oakland, California

**GROUND WATER MONITORING AND SAMPLING SCHEDULE**

Previously, the monitoring schedule was performed in accordance with a ground water monitoring program approved by ACWD in an email dated 20 March 2009. The following is a summary of the previous monitoring and reporting program:

- Quarterly monitoring (measuring depth to water) of site ground water monitoring wells.
- Quarterly sampling of four ground water monitoring wells (MW-5, MW-7, MW-8 and MW-14).
- Annual monitoring and sampling of eight ground water monitoring wells (MW-1, MW-3N, MW-4, MW-9, MW-12, MW-13, MW-15 and MW-16).
- Temporary suspension of sampling requirements of three ground water monitoring wells (MW-6, MW-10 and MW-11).
- Semi-annual reporting of data collected for two quarters, with reports to include updates of interim remedial activity at the site.

On 19 May 2009, the State Water Resources Control Board passed resolution number 2009-0040 requiring semi-annual monitoring and reporting for all sites unless site-specific issues dictate greater frequency of monitoring.

In a letter dated 23 July 2009, the ACWD directed semi-annual ground water monitoring and sampling at the site. The sampling schedule will be implemented beginning with the fourth quarter 2010 as follows:

- First quarter - no monitoring, sampling or reporting;
- Second quarter - semi-annual monitoring, sampling and reporting;
- Third quarter - no monitoring, sampling or reporting; and
- Fourth quarter - annual monitoring, sampling and reporting.

For semi-annual monitoring and sampling events, only wells MW-5, MW-7, MW-8, and MW-14 will be sampled. All wells will be monitored for depth to water and assessed for well integrity. For annual monitoring and sampling events, eight additional ground water monitoring wells (MW-1, MW-3N, MW-4, MW-9, MW-12, MW-13, MW-15 and MW-16) will

be monitored and sampled.

Semi-annual monitoring reporting periods are recommended as follows:

First semi-annual reporting period will be January to June, while the second semi-annual reporting period will be July to December of each year.

#### Interim In-situ Ozone Injection Remedial System

- Twice monthly maintenance checks and recording of system operational parameters.

#### GROUND WATER SAMPLING PROCEDURES

Prior to purging and sampling the ground water monitoring wells, static water level was measured using an electric water level indicator. Water level data was recorded to the nearest 0.01 foot from a reference point marked on the top of the PVC well casing. Before and after each use, the measuring device was rinsed with water.

#### WELL PURGING

Subsequent to measurement of depth to water and prior to sampling, the well was purged to ensure the sample is representative of ground water in the formation, rather than of water standing in the well casing. Monitoring wells were purged by using a disposable polyethylene bailers. The disposable polyethylene bailers is disposed of after one use and required no decontaminating, minimizing cross contamination due to sampling devices. The wells were purged until: 1) a minimum of three casing volumes was removed from each well; and 2) field-measured ground water parameters including temperature, electrical conductivity, and pH had stabilized. Purge water generated during sampling activities was contained on-site in an appropriately labeled 55-gallon drum.

#### SAMPLE WITHDRAWAL

Following 80 percent recovery of ground water within the well after purging, ground water samples were collected from the monitoring wells using disposable polyethylene bailers. These bailers are disposed of after one use and required no decontaminating, minimizing cross contamination due to sampling devices. The samples were drawn and collected in such a manner that agitation and exposure of the ground water to the atmosphere was



minimal. Sample containers were filled using the appropriate disposable sampling attachment which allows controlled flow out of the bottom of the bailer.

## SAMPLE HANDLING

Ground water samples are collected into laboratory-supplied 40-ml volatile organic analysis (VOA) vials without preservative; samples are collected with no visible air bubbles present in the vials after filling and capping; while selected well samples were collected in 1-liter amber bottles without preservative. Following collection, samples are appropriately labeled, placed on ice, and kept in a cooler until delivered to Cal Tech Environmental Laboratories (CTEL), a State of California Department of Public Health-certified analytical laboratory, for analysis. Samples are analyzed for:

- Total petroleum hydrocarbons quantified as gasoline (TPH-g) in accordance with EPA Method 8015 Modified;
- Selected wells for Total petroleum hydrocarbons quantified as diesel (TPH-d) in accordance with EPA Method 8015 Modified; and
- Benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and fuel additives methyl tertiary-butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), tertiary-amyl methyl ether (TAME), tertiary butanol (TBA), ethylene dibromide (EDB), and 1,2-dichloroethane (1,2-DCA) in accordance with EPA Method 8260B.

## EQUIPMENT DECONTAMINATION

Prior to sample collection, all sampling tools used for sample collection were thoroughly washed with a solution of Alconox and rinsed with clean water.

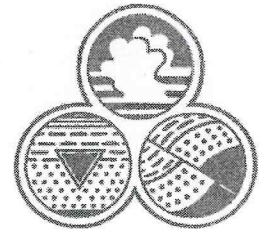
# **APPENDIX C**

*Field Logs*

Advanced

GeoEnvironmental, Inc.

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Ground Water Depth/Dissolved Oxygen/ORP  
Field Log

Project: RINEHART - OAKLAND TRUCK STOP

Date: 5-22-13

Field Personnel: JK

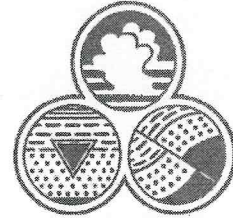
Page: 1 of 1

Well I.D.	Time	Casing Elev (ft MSL)	Depth to Free Product (ft btoc)	Depth to Water (ft btoc)	Ground Water Elev (ft MSL)	Measured Depth (ft btoc)	Total Depth (ft bsg)	ORP	Dissolved Oxygen		
									mg/l	%	°C
MW-1	1016	10.02		4.31	5.71	17.80	20				
MW-3N	1036	11.36		4.92	6.44	11.65	12				
MW-4	1167	10.16		4.52	5.41	13.40	20				
MW-5	1103	10.19		4.49	5.70	13.60	20				
MW-6	1050	10.33		4.66	5.67	14.00	20				
MW-7	1059	11.41		6.20	5.21	18.95	20				
MW-8	1054	9.73		4.03	5.70	17.60	20				
MW-9	1013	9.73		4.05	5.68	19.95	20				
MW-10	1021	9.42		2.36	7.06	11.00	12				
MW-11	1024	10.77		4.68	6.09	11.75	12				
MW-12	/	10.59		DEST.		/	20				
MW-13	/	11.29		DEST.		/	20				
MW-14	1040	11.39		5.99	5.40	20.25	20				
MW-15	1028	11.38		5.82	5.54	18.30					
MW-16	/	10.36		DEST.		/					
MW-13R	1032			6.20	5.36	20.10					

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Monitoring Well Field Log

Well Data

Project Name: RINEHART - OAKLAND TRUCK STOP		Project No.: AGE-NC-03-1101	Date: 5-22-13	
Pre-Purge DTW: 4.49	Time: 1103	Well I.D.: MW-5		
Post-Purge DTW: 4.60	Time: 1246			
Total Depth of Well: 13.60	Well Volume: 1.45	Casing Diameter: 0.5"	2"	4"
		Gal./Ft.: 0.01074	0.16	0.65 1.47
Sampler(s): KL		Sample Containers: 3 VOAs, 1 Amber		
Sample I.D.: MW-5 /052213		Analysis: TPH-g,d/BTEX/5 Fuel Oxys 1,2-DCA, EDB		

Stabilization Data

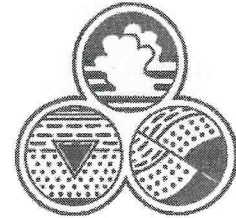
Time	Volume (gallons)	pH	Temp.	Cond $\mu$ S/cm	Color/Turbidity	Notes
1236	0	6.70	21.6	982	clear	HC odor
1239	1.5	6.77	21.2	982	u	u
1242	3.0	6.77	21.3	944	u	u
1245	4.5	6.78	21.2	939	u	u

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1247	Dissolved O <sub>2</sub> :	C
Oakton		%	mg/L

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Monitoring Well Field Log

Well Data

Project Name: RINEHART - OAKLAND TRUCK STOP		Project No.: AGE-NC-03-1101	Date: 5-22-13
Pre-Purge DTW: 6.20	Time: 1059	Well I.D.: MW-7	
Post-Purge DTW: 6.49	Time: 1206		
Total Depth of Well: 18.95	Well Volume: 2.04	Casing Diameter: 0.5" 2" 4" 6" Gal./Ft.: 0.01074 0.16 0.65 1.47	
Sampler(s): KL		Sample Containers: 3 VOAs, 1 Amber	
Sample I.D.: MW-7 /052213		Analysis: TPH-g,d/BTEX/5 Fuel Oxys 1,2-DCA, EDB	

Stabilization Data

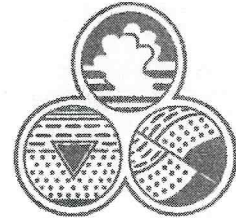
Time	Volume (gallons)	pH	Temp.	Cond $\mu$ S/cm	Color/Turbidity	Notes
1157	0	6.41	22.7	770	clear	sheen/HC odor
1159	2.5	6.51	21.0	794	"	"
1202	4.5	6.53	20.4	795	"	"
1205	6.5	6.55	20.3	801	"	"

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1207	Dissolved O <sub>2</sub> :	C
	Oakton	%	mg/L

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## Monitoring Well Field Log

### Well Data

Project Name: RINEHART - OAKLAND TRUCK STOP		Project No.: AGE-NC-03-1101	Date: 5-22-13
Pre-Purge DTW: 4.03	Time: 1054	Well I.D.: MW- 8	
Post-Purge DTW: 4.15	Time: 1310		
Total Depth of Well: 17.60	Well Volume: 2.17	Casing Diameter: 0.5" 2" 4" 6"	Gal./Ft.: 0.01074 0.16 0.65 1.47
Sampler(s): KL		Sample Containers: 3 VOAs, 1 Amber	
Sample I.D.: MW- 8 /052213		Analysis: TPH-g,d/BTEX/5 Fuel Oxys 1,2-DCA, EDB	

### Stabilization Data

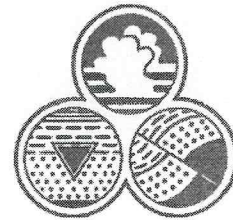
Time	Volume (gallons)	pH	Temp.	Cond $\mu$ S/cm	Color/Turbidity	Notes
1300	0	6.80	23.0	770	clear	sheen/HC odor
1303	2.5	6.78	21.1	800	Black	u
1306	4.5	6.86	20.8	802	u	u
1309	7.0	6.82	20.6	809	u	u

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1312	Dissolved O <sub>2</sub> :	C
	Oakton	%	mg/L

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## Monitoring Well Field Log

### Well Data

Project Name: RINEHART - OAKLAND TRUCK STOP		Project No.: AGE-NC-03-1101	Date: 5-22-13
Pre-Purge DTW: 5.99	Time: 1040	Well I.D.: MW-14	
Post-Purge DTW: 6.32	Time: 1136		
Total Depth of Well: 20.25	Well Volume: 2.28	Casing Diameter: 0.5" 2" 4" 6"	Gal./Ft.: 0.01074 0.16 0.65 1.47
Sampler(s): KL	Sample Containers: 3 VOAs, 1 Amber		
Sample I.D.: MW-14 /052213	Analysis: TPH-g,d/BTEX/5 Fuel Oxys 1,2-DCA, EDB		

### Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond $\mu$ S/cm	Color/ Turbidity	Notes
1126	0	6.29	21.1	424	clear	sheen/HCl odor
1129	2.5	6.38	19.8	423	cloudy	"
1132	4.5	6.44	19.7	407	"	"
1135	7.0	6.49	19.6	413	"	"

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1137	Dissolved O <sub>2</sub> :	C
	Oakton	%	mg/L

# **APPENDIX D**

*Cal Tech Laboratory Report*



# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146  
 Telephone: (562) 272-2700 Fax: (562) 272-2789

## ANALYTICAL RESULTS\*

**CTEL Project No:** CT214-1305150  
**Client Name:** Advanced Geo Environmental, Inc.

837 Shaw Road  
 Stockton, CA 95215

**Phone:** (209) 467-1006  
**Fax:** (209) 467-1118

**Attention:** Mr. Brian Millman

**Project ID:** Global ID: T0600102136  
**Project Name:** Rinehart / Oakland TS

**Date Sampled:** 05/22/13 @ 12:47 p.m.  
**Date Received:** 05/23/13 @ 09:30 am  
**Date Analyzed:** 05/23/13

**Matrix:** Water

Laboratory ID:	1305-150-1	1305-150-2	1305-150-3	Method	Units:	Detection Limit
<b>Client Sample ID:</b>	MW5	MW7	MW8			
<b>Dilution</b>	1-10	1-10	1			
<b>TPH - Gasoline</b>	19000	40000	1400	EPA 8015M	ug/L	50
<b>TPH - Diesel</b>	28000	43000	1800	EPA 8015M	ug/L	50
<b>VOC, 8260B</b>						
<b>Dilution</b>	1	1-10	1			
Methyl-tert-butyl-ether(MiBE)	2.2	530	4.7	SW846 8260B	ug/L	1
t-Butyl Alcohol (TBA)	3700	35000	2800	SW846 8260B	ug/L	10
t-Amyl Methyl Ether (TAME)	ND	11	ND	SW846 8260B	ug/L	1
Benzene	ND	740	ND	SW846 8260B	ug/L	0.5
Toluene	ND	12	ND	SW846 8260B	ug/L	0.5
Ethylbenzene	ND	7.4	ND	SW846 8260B	ug/L	0.5
m,p-Xylene	ND	44	ND	SW846 8260B	ug/L	0.5
o-Xylene	ND	4.4	ND	SW846 8260B	ug/L	0.5

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	97	97	92	70-130
1,2 Dichloroethane d4	93	94	95	70-130
Toluene-d8	92	90	89	70-130
Bromofluorobenzene	89	90	94	70-130

TOTALLY DEDICATED TO CUSTOMER SATISFACTION

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**Client Name:** Advanced Geo Environmental, Inc.  
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**Attention:** Mr. Brian Millman

**Phone:**(209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:** Global ID: T0600102136  
**Project Name:** Rinehart / Oakland TS

**Date Sampled:** 05/22/13 @ 11:37 p.m.  
**Date Received:** 05/23/13 @ 09:30 am  
**Date Analyzed:** 05/23/13

**Matrix:** Water

**Laboratory ID:** 1305-150-4  
**Client Sample ID:** MW14  
**Dilution** 1

**Method**                      **Units:**                      **Detection Limit**

<b>TPH - Gasoline</b>	<b>5000</b>	EPA 8015M	ug/L	50
<b>TPH - Diesel</b>	<b>6600</b>	EPA 8015M	ug/L	50

**VOC, 8260B**

	<b>Dilution</b>			
Methyl-tert-butyl-ether(MtBE)	62	SW846 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND	SW846 8260B	ug/L	10
t-Amyl Methyl Ether (TAME)	ND	SW846 8260B	ug/L	1
Benzene	21	SW846 8260B	ug/L	0.5
Toluene	1.7	SW846 8260B	ug/L	0.5
Ethylbenzene	1.8	SW846 8260B	ug/L	0.5
m,p-Xylene	3.3	SW846 8260B	ug/L	0.5
o-Xylene	1.5	SW846 8260B	ug/L	0.5

ND = Not Detected at the indicated Detection Limit

<i>SURROGATE SPIKE</i>		% SURROGATE RECOVERY	Control Limit
Dibromofluoromethane	94		70-130
1,2 Dichloroethaned4	95		70-130
Toluene-d8	91		70-130
Bromofluorobenzene	95		70-130

  
 Greg Tejjiman  
 Laboratory Director

\*The results are base upon the sample received.

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

# CAL TECH Environmental Laboratories



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## QA/QC Report

Method: 8015M  
Matrix: Water  
Date Analyzed: 5/23/2013  
Date Extracted: 5/23/2013

Perimeters	Conc. ug/L		Spike Added	Recovery %		Control Limits		RPD
	MS	MSD		MS	MSD	Rec.	RPD	
TPH - Gasoline	1040	1028	1000	104	103	70-130	20	1
TPH - Diesel	1018	1049	1000	102	105	70-130	20	3

Perimeters	Method Blank	Units	Det. Limit
TPH - Gasoline	ND	ug/L	50
TPH - Diesel	ND	ug/L	50

MS: Matrix Spike  
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

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## QA/QC Report

Method: 8260B  
 Matrix: Water  
 Date Analyzed: 5/23/2013  
 Date Extracted: 5/23/2013

Perimeters	Conc. ug/L		Spike Added	Recovery %		Control	Limits	RPD
	MS	MSD		MS	MSD	Rec.	RPD	
1,1-Dichloroethane	48	45	50	96	90	70-130	20	6
Benzene	47	44	50	94	88	70-130	20	6
Trichloroethene	48	46	50	96	92	70-130	20	4
Toluene	48	46	50	96	92	70-130	20	4
Chlorobenzene	42	44	50	84	88	70-130	20	4
m,p-Xylenes	96	98	100	96	98	70-130	20	2

MS: Matrix Spike  
 MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

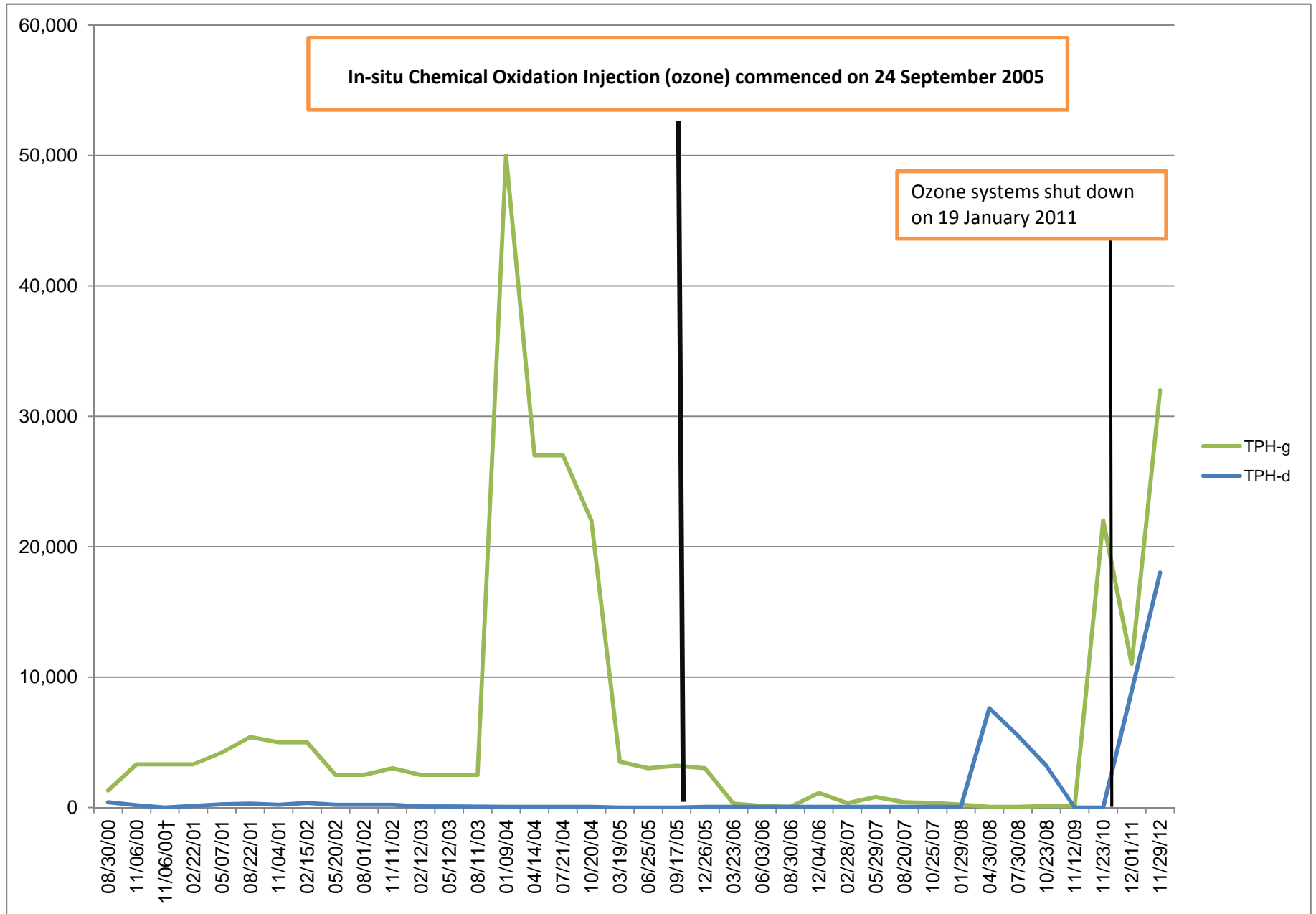
Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/L	1
Benzene	ND	ug/L	0.5
Trichloroethene	ND	ug/L	0.5
Toluene	ND	ug/L	0.5
Chlorobenzene	ND	ug/L	0.5
m,p-Xylenes	ND	ug/L	0.6
MTBE	ND	ug/L	1
TBA	ND	ug/L	10
DIPE	ND	ug/L	1
ETBE	ND	ug/L	1
TAME	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	0.5
EDB	ND	ug/L	0.5
Ethylbenzene	ND	ug/L	0.5
o-Xylene	ND	ug/L	0.6
TCE	ND	ug/L	1
PCE	ND	ug/L	1



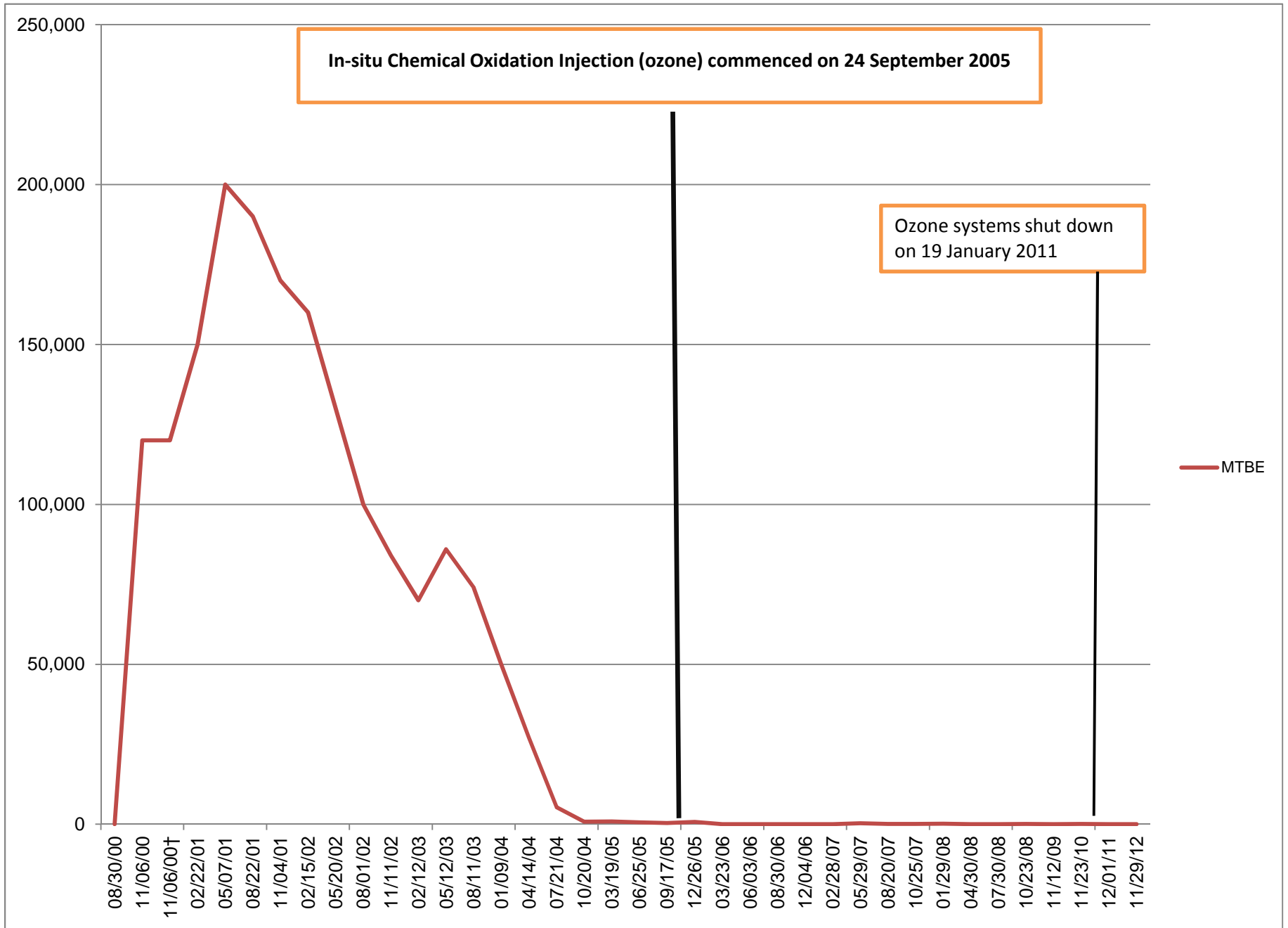
# **APPENDIX E**

*Trend Graphs for MW-4, MW-5, MW-7, MW-8 and MW-14*

RINO PACIFIC/OAKLAND TRUCK STOP  
TPH CONCENTRATIONS FOR WELL MW-4

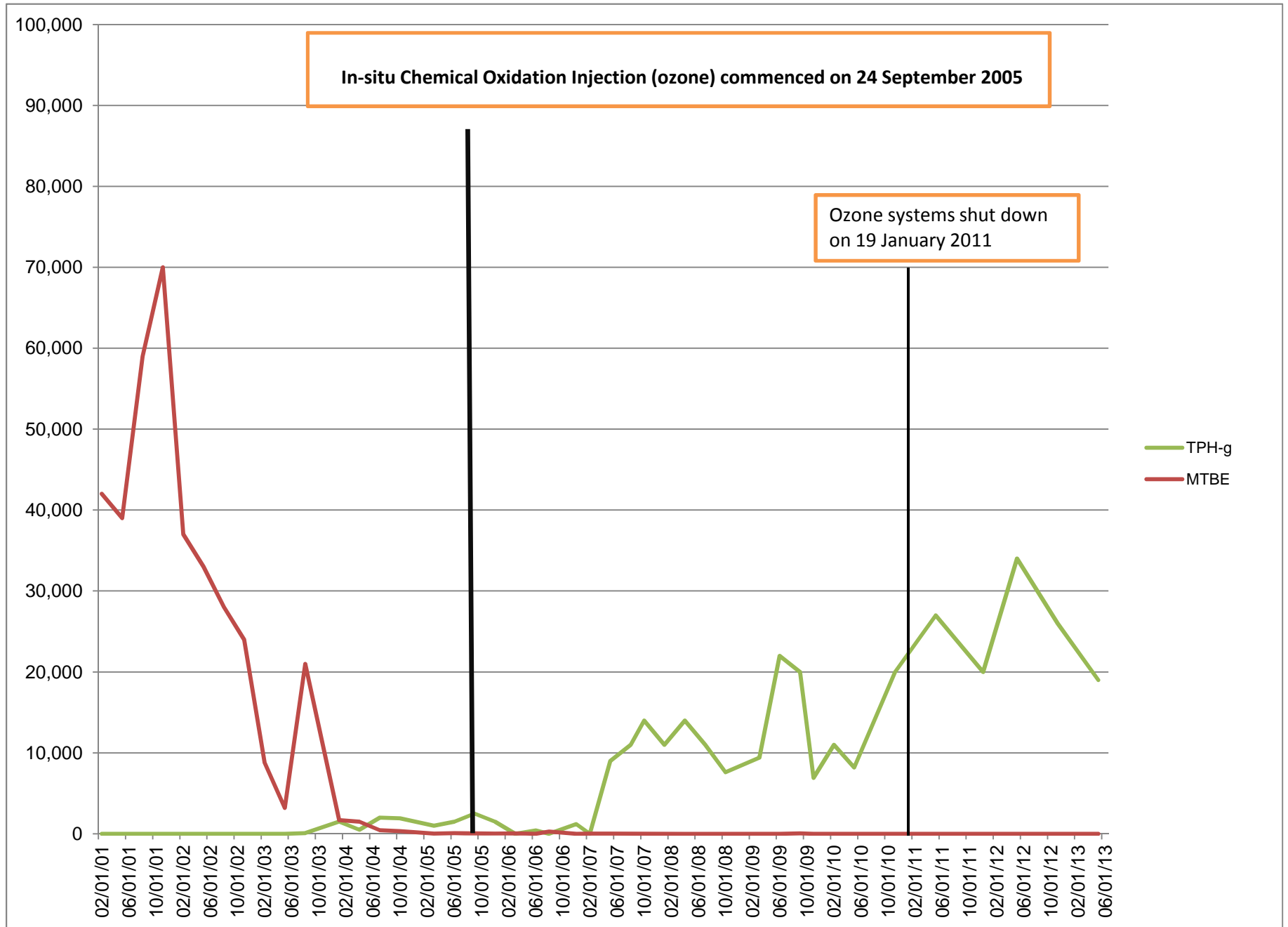


RINO PACIFIC/OAKLAND TRUCK STOP  
MTBE CONCENTRATIONS FOR WELL MW-4

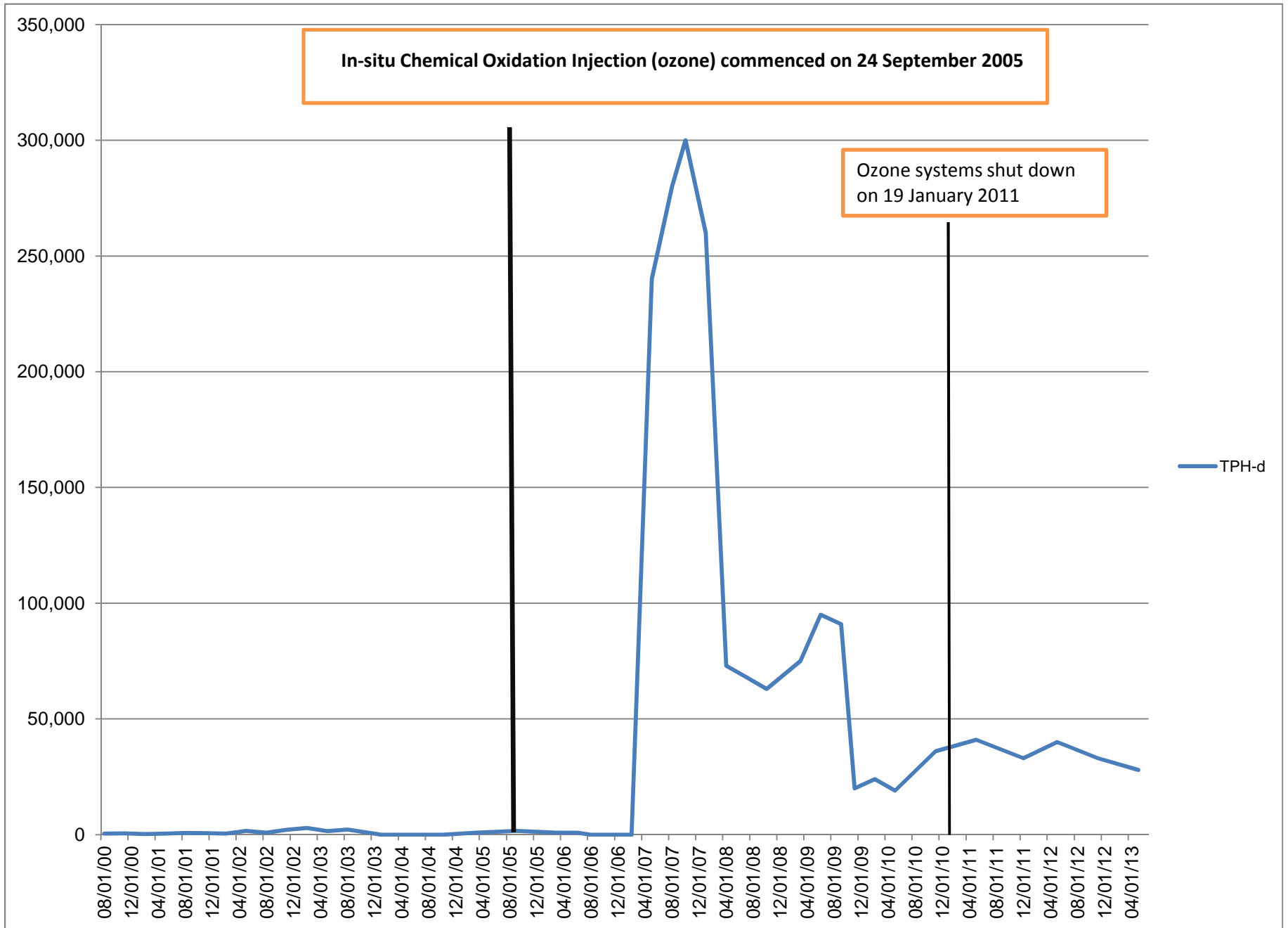




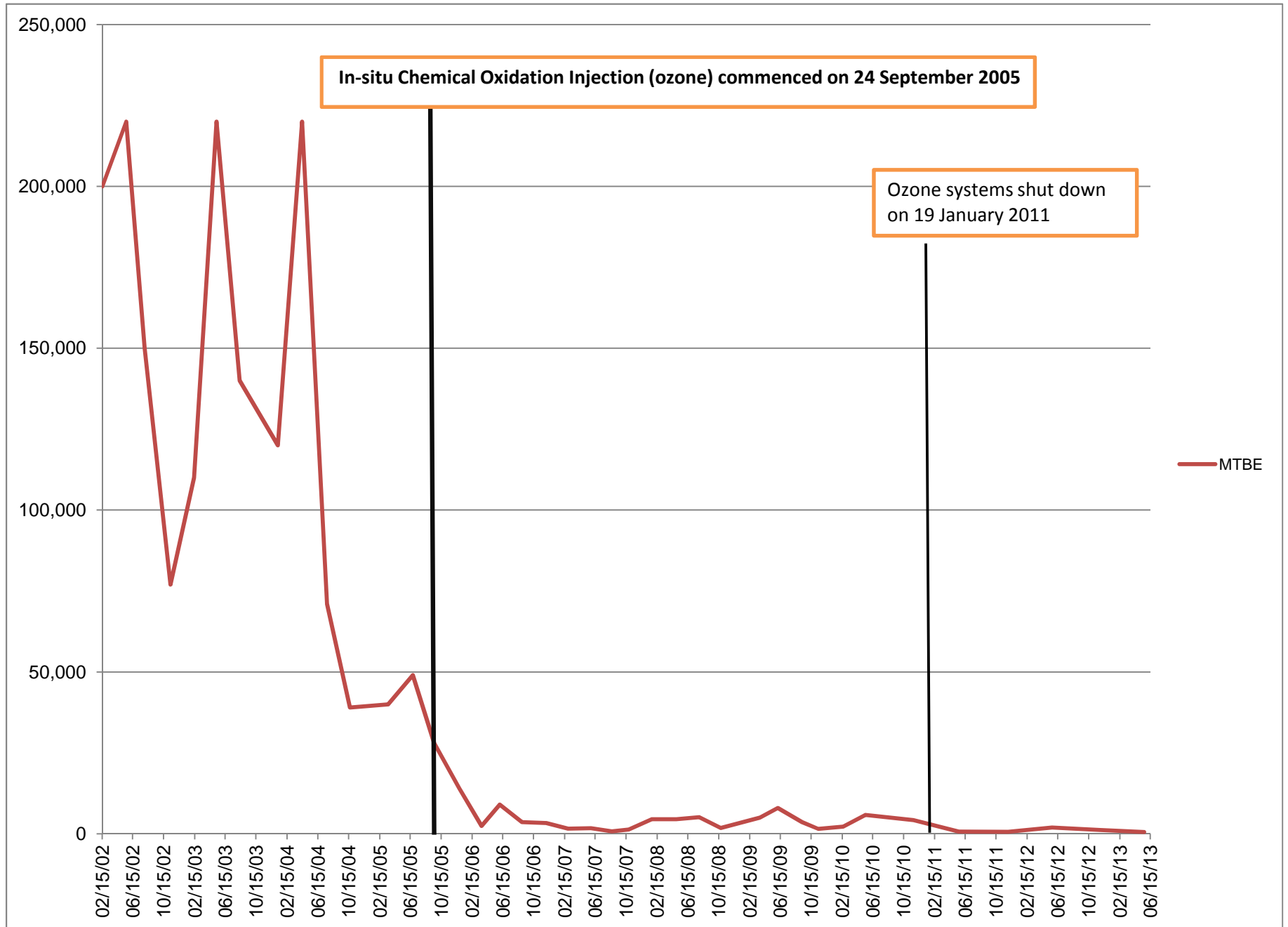
RINO PACIFIC/OAKLAND TRUCK STOP  
TPH-G AND MTBE CONCENTRATIONS FOR WELL MW-5



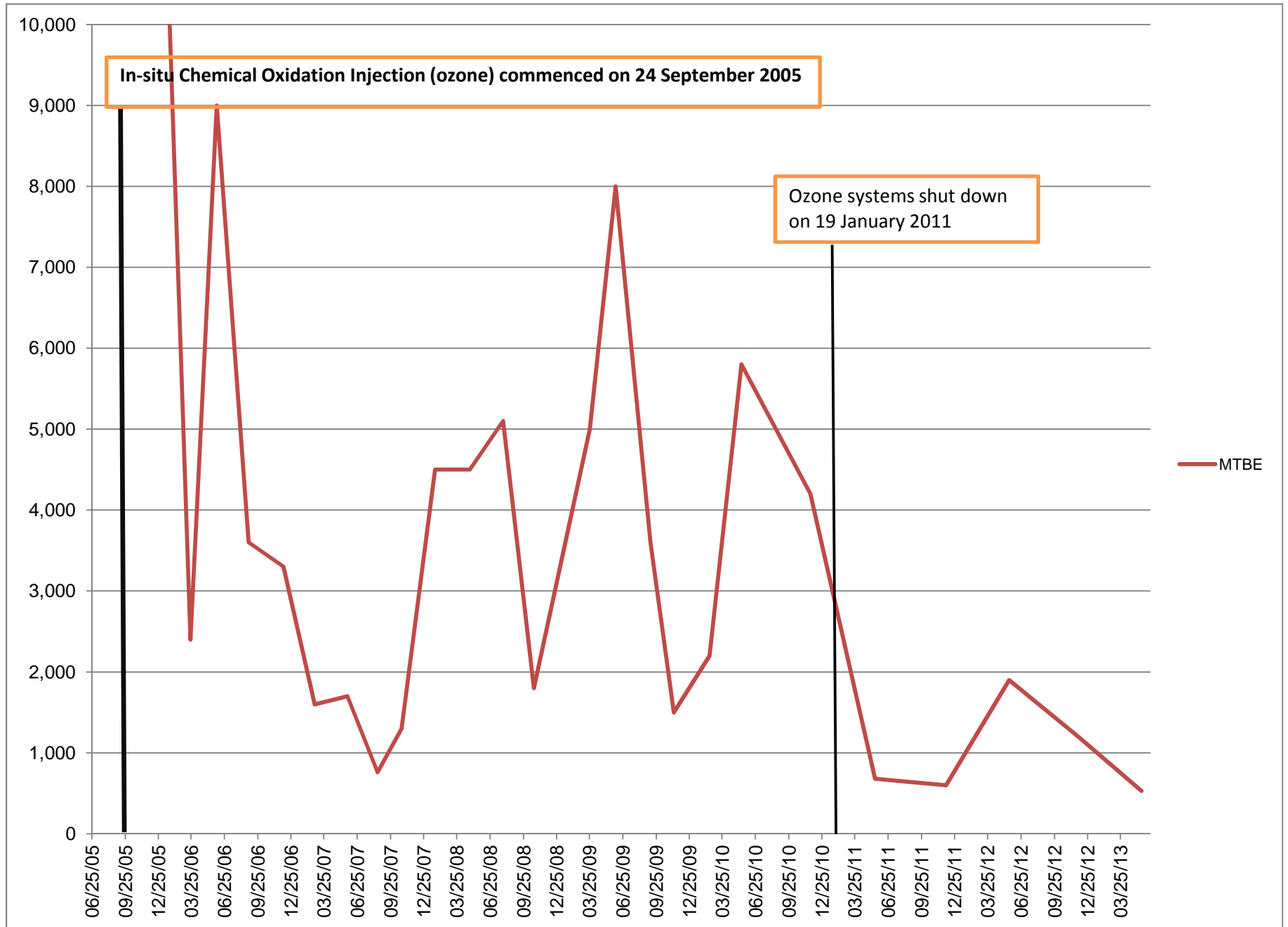
RINO PACIFIC/OAKLAND TRUCK STOP  
TPH-D CONCENTRATIONS FOR WELL MW-5



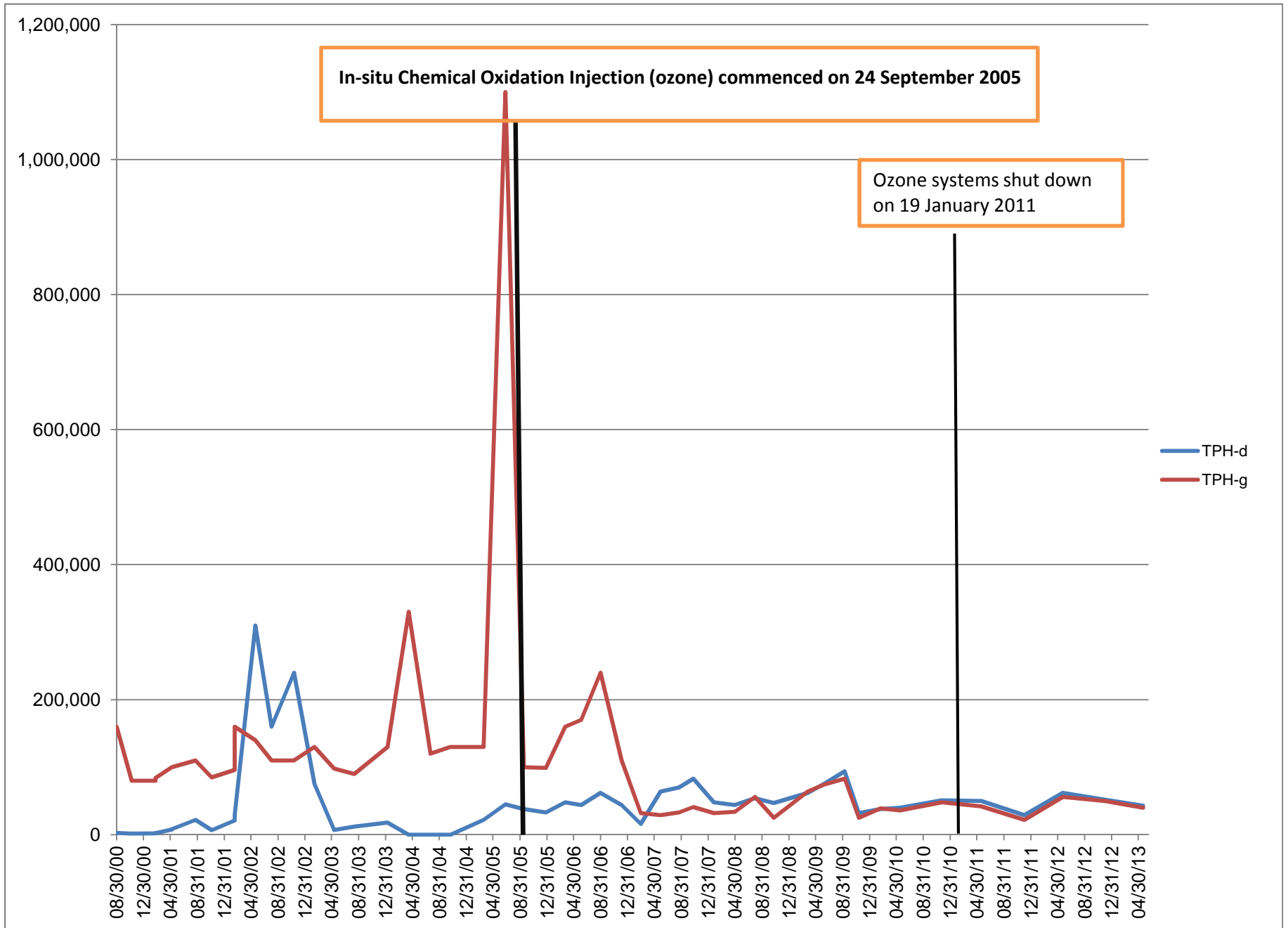
RINO PACIFIC/OAKLAND TRUCK STOP  
MTBE CONCENTRATIONS FOR WELL MW-7



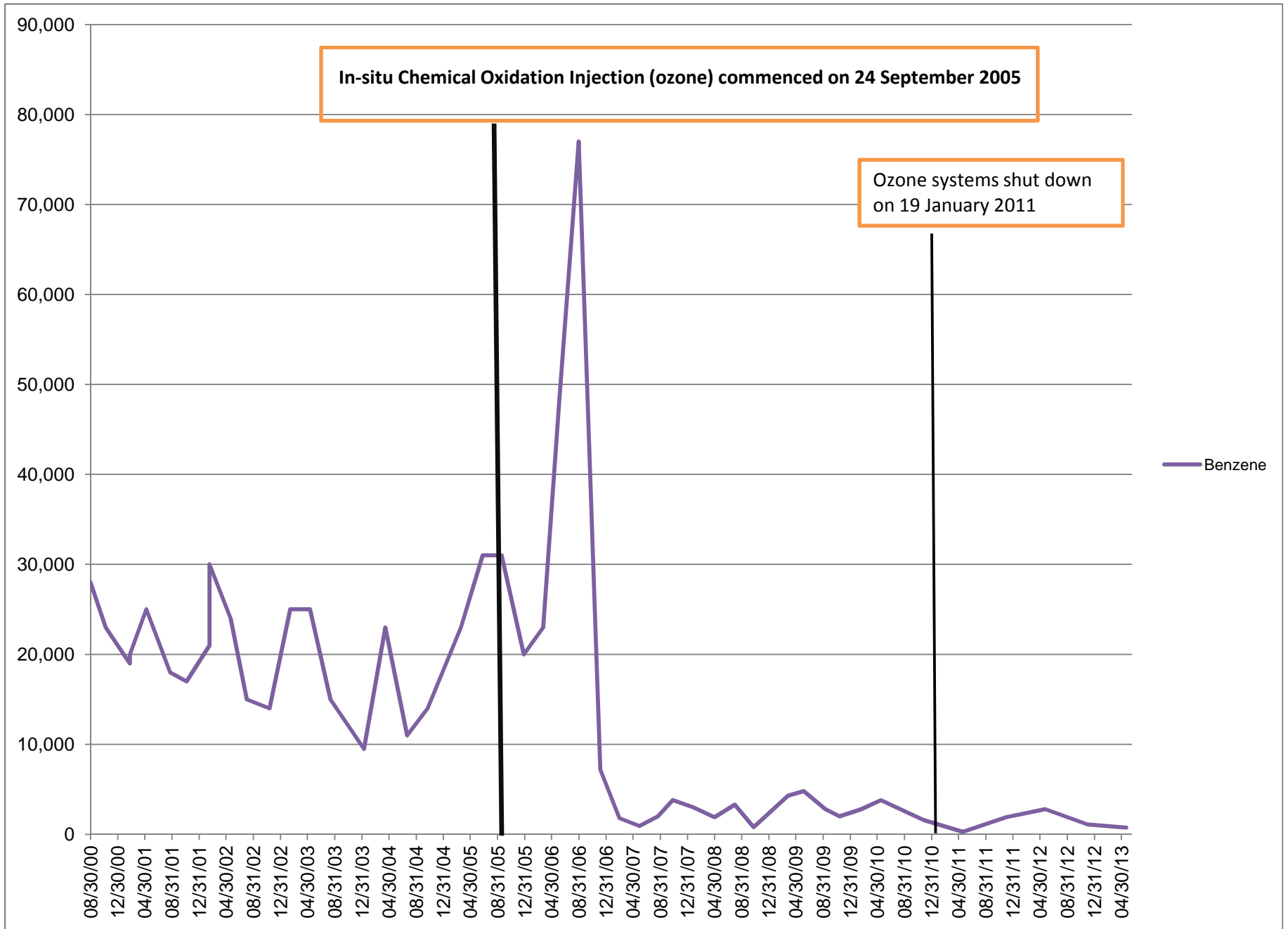
RINO PACIFIC/OAKLAND TRUCK STOP  
MTBE CONCENTRATIONS FOR WELL MW-7



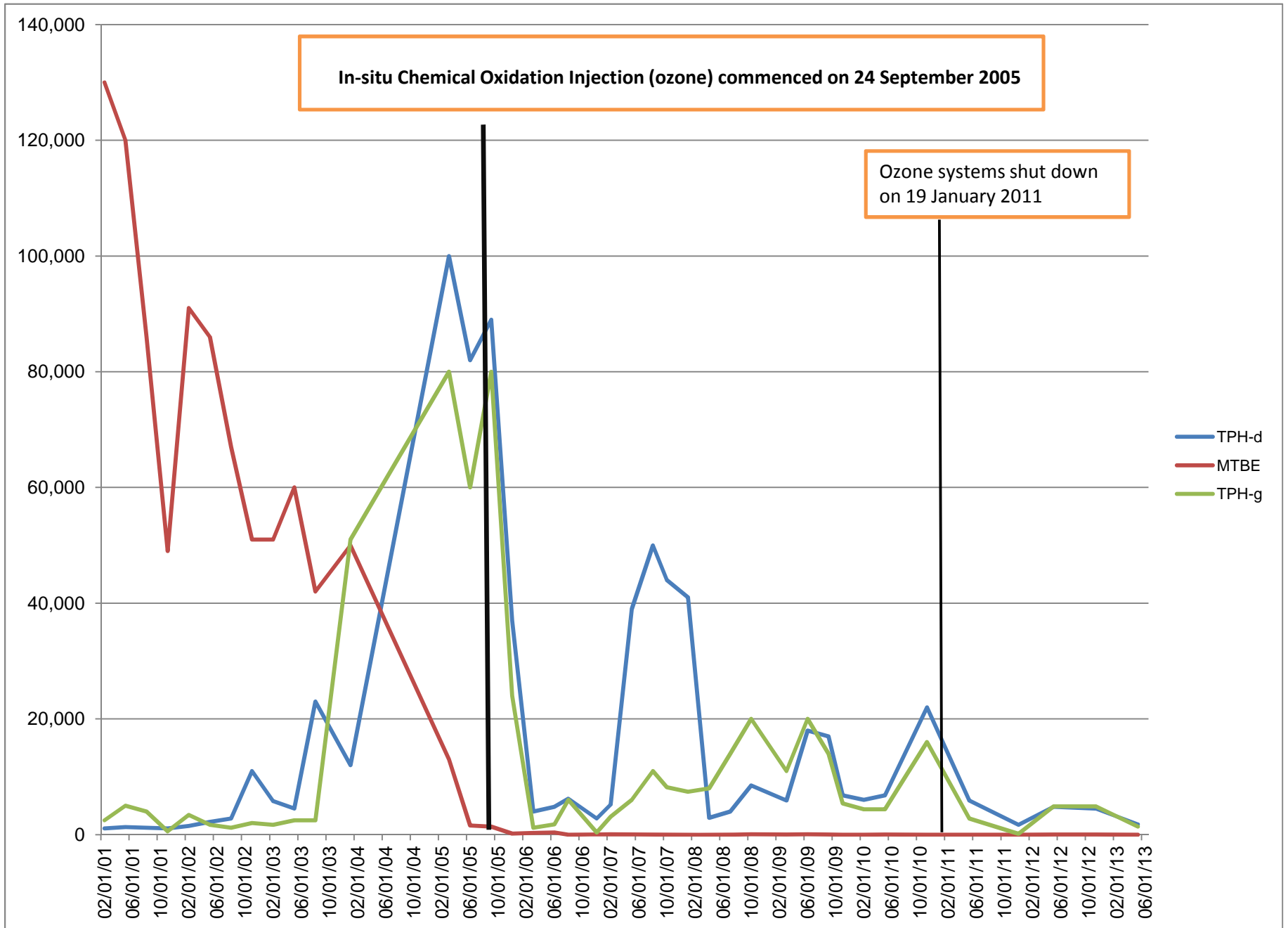
RINO PACIFIC/OAKLAND TRUCK STOP  
TPH-G and TPH-D CONCENTRATIONS FOR WELL MW-7



RINO PACIFIC/OAKLAND TRUCK STOP  
BENZENE CONCENTRATIONS FOR WELL MW-7



RINO PACIFIC/OAKLAND TRUCK STOP  
SELECTED CONCENTRATIONS FOR WELL MW-8



RINO PACIFIC/OAKLAND TRUCK STOP  
SELECTED CONCENTRATIONS FOR WELL MW-14

