SECOR

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Thousand Oaks, CA 91361
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ATLANTIC RICHFIELD COMPANY QUARTERLY REPORT
Quarter 3, 2005 (October 15, 2005)

Station No.: 0069 Address: 9922 South Figueroa Street, Los Angeles, California
Atlantic Richfield Company Environmental Engineer/Phone No.: Jack Oman (714) 730-1898
Consulting Co./Contact Person/Phone No.: SECOR/Mr. Don Indermill/ (805) 230-1266 Ext 269
SECOR Project No.: 37BP.U0069.04
Primary Agency/Regulatory ID No.: LARWQCB / Mr. Jimmy Woo /File No. 905040061
Other Agencies to Receive Copies: None

WORK PERFORMED THIS QUARTER [Third - 2005]:

1. Conducted quarterly groundwater sampling and prepared Quarterly Report.
2. Restarted remediation system.
3. Conducted remediation system operation and maintenance.

WORK PROPOSED FOR NEXT QUARTER [Fourth - 2005]:

1. Conduct quarterly groundwater sampling and prepare Quarterly Report.
2. Continue EFRs in wells MW-5 and MW-6, if needed.
3. Conduct remediation system operation and maintenance.

Current Phase of Project:	Monitoring/Remediation	(Assmnt, Remed. etc)
Frequency of Sampling:	Quarterly	(Quarterly, etc.)
Frequency of Monitoring:	Quarterly	(Monthly, etc.)
Separate Phase Hydrocarbon Present On-Site	No	(Yes/No)
Cumulative SPH Recovered to Date:	2.21	(gallons)
SPH Recovered This Quarter:	0	(gallons)
Bulk Soil Removed to Date:	Unknown	(cubic yards)
Bulk Soil Removed This Quarter:	None	(cubic yards)
Water Wells or Surface Waters (4000-ft radius)	Well 2S/13W-31K02	
Radius & Their Respective Directions:	2,000' North (status unknown)	(Distance and Direction)
Current Remediation Techniques:	EFR, SVE	(SVE, SPH Removal etc.)
Permits for Discharge:	AQMD	(NPDES, POTW, etc.)
Approximate Depth to Groundwater:	Range: 20.25 to 21.50	(Measured Feet)
Groundwater Gradient:	Southeast	(Direction)
	0.002 feet/foot	(Magnitude)

REGISTERED GEOLOGIST
DONALD C. INDERMILL
No. 5102
Exp. 31 Mar 2006
STATE OF CALIFORNIA

Agency Directive Requirement: Continue Quarertly Monitoring

ATTACHED:

Figure 1 - Site Location Map Showing Wells Within A One-Mile Radius
Figure 2 - Site Map Showing Groundwater Monitoring Well Locations
Figure 3 - Site Map Showing Groundwater Contour and Hydrocarbon Concentration Map
Figure 4 - GRO Isoconcentration Map
Figure 5 - Benzene Isoconcentration Map
Figure 6 - MTBE Isoconcentration Map
Figure 7 - TBA Isoconcentration Map
Figure 8 - Cumulative Pounds of Gasoline Range Organics Removed
Table 1 - SVE Operation Report
Table 2 - Summary of SVE Operation Data
Table 3a,b,c - Daily Operational Log
Table 4a - Individual Air Sparge Well Monitoring Data
Table 4b - Individual Soil Vapor Extraction Well Field Monitoring Data
Table 5 - Summary of Process Vapor Sampling Results
Table 6 - Summary of Individual Well Vapor Analytical Results
Table 7 - Summary of Grourdwater Analytical and Elevation Results
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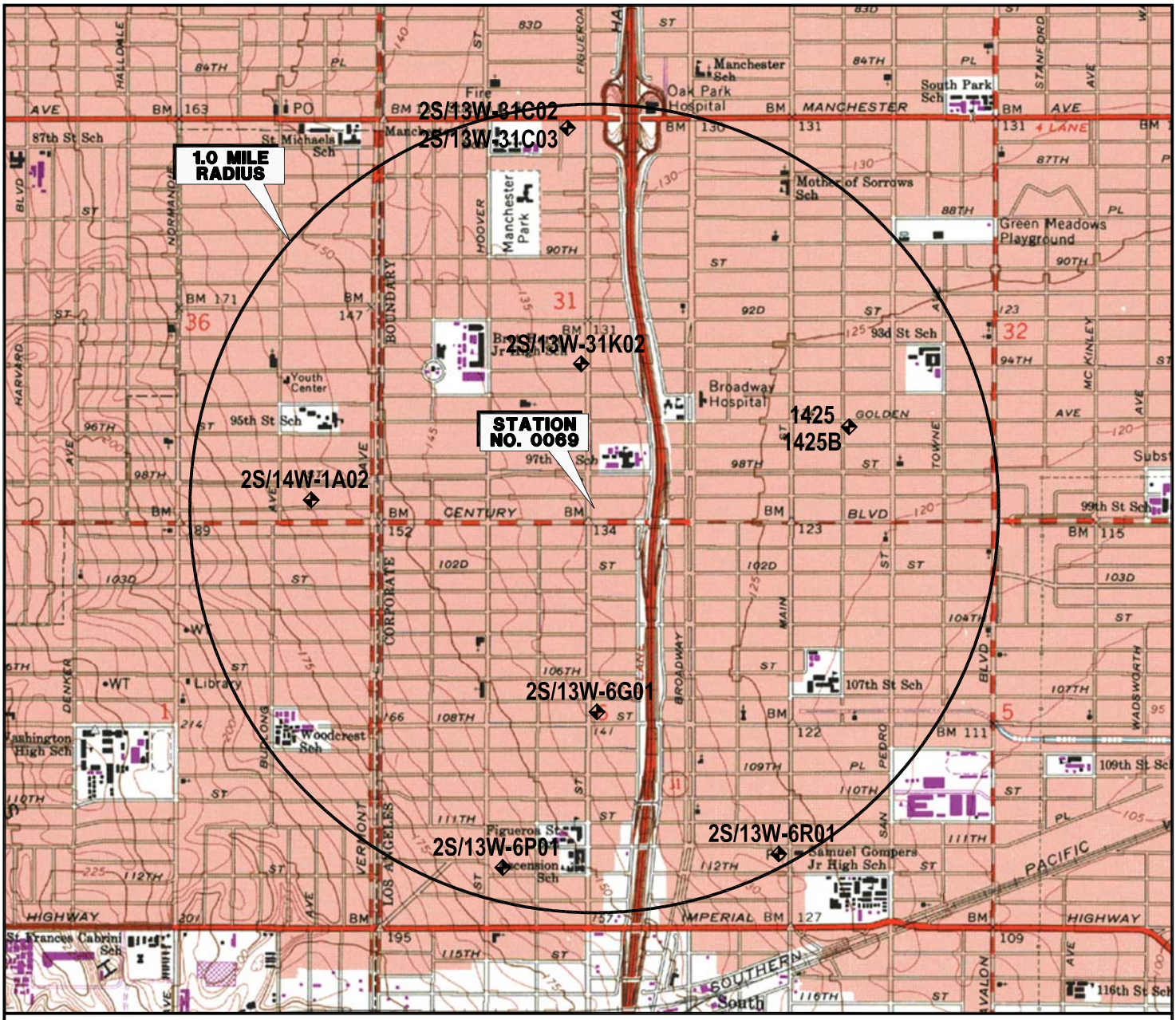
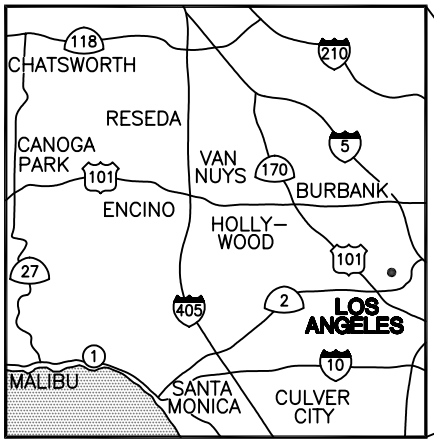
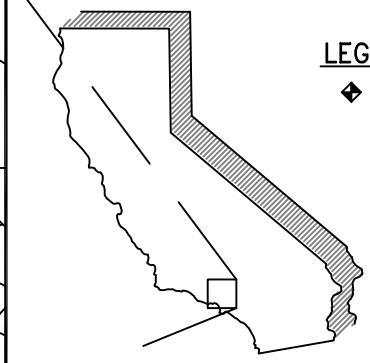
Appendix A - Laboratory Report and Chain-of-Custody
Appendix B - Groundwater Sampling and O&M Field Data Sheets
Appendix C - Waste Disposal Documents

Figures



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAPS, INGLEWOOD QUADRANGLE, 1964
PHOTO REVISED; 1981





LEGEND

◆ PRODUCTION WELL LOCATION (ACTIVE)

N

0 2000 4000

APPROXIMATE SCALE (FEET)

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PREPARED FOR:
ATLANTIC RICHFIELD COMPANY
STATION NO. 0069
9922 FIGUEROA STREET
LOS ANGELES, CALIFORNIA

SITE LOCATION MAP SHOWING WELLS WITHIN A ONE-MILE RADIUS

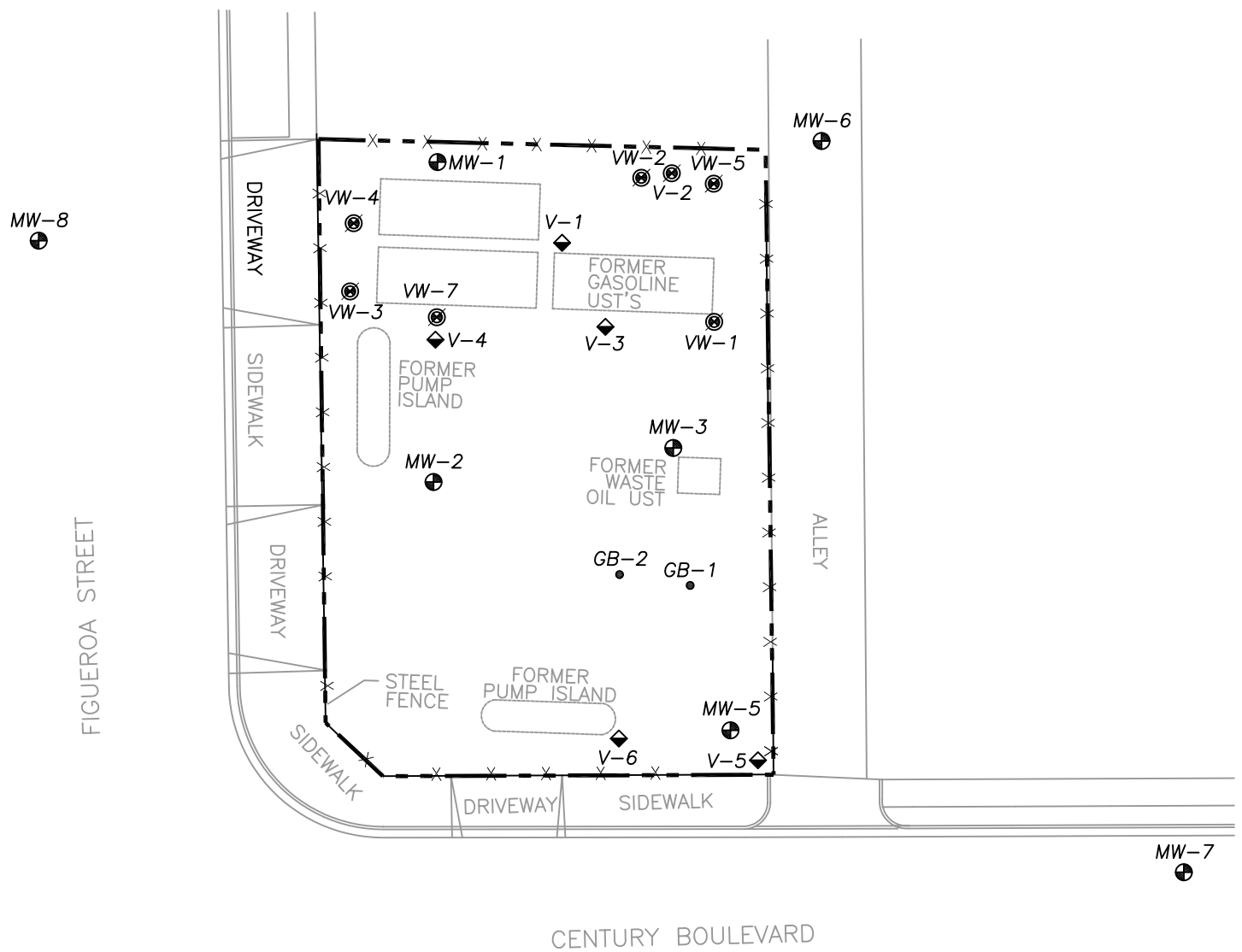
FIGURE: **1**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
37BP.U0069.04/3143	RLE	L. Moreno	D. Indermill	10/15/05

LEGEND

— — —	SITE PROPERTY LINE
MW–2	GROUNDWATER MONITORING WELL LOCATION
V–6	VADOSE MONITORING WELL LOCATION
VW–2	ABANDONED VENT WELL/ BORING LOCATION
GB–1	SOIL BORING LOCATION

N



NOTES:

1. SOURCE OF MAP: SECOR MAP DATED DECEMBER 2003 AND COUNTY ASSESSORS MAP DATED DECEMBER 17 1965.
2. GROUNDWATER MONITORING WELLS SURVEYED BY W.M. HOLDINGS JUNE 24, 2004.

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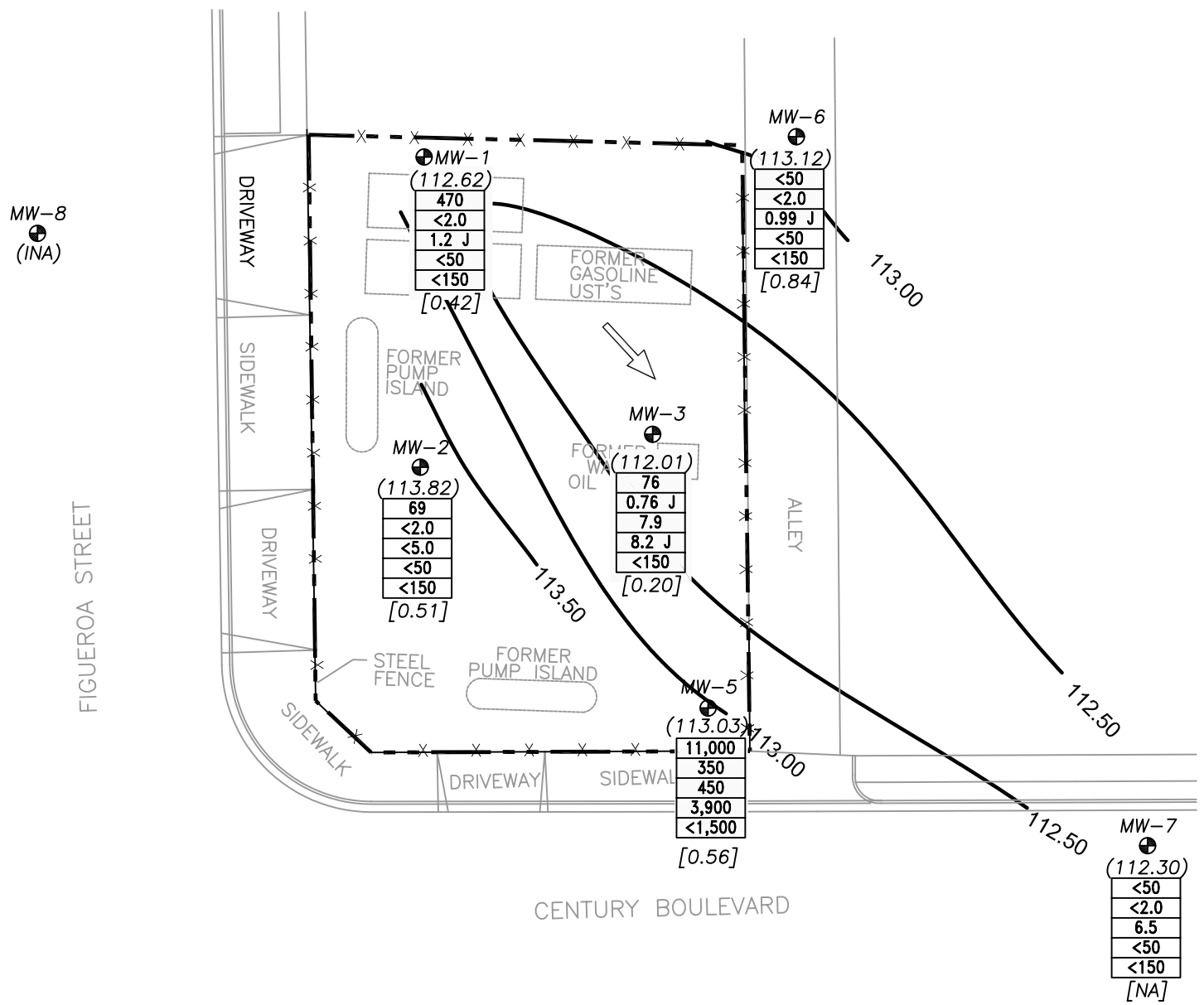
SITE MAP SHOWING GROUNDWATER MONITORING WELL LOCATIONS

FIGURE: **2**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
37BP.U0069.04/3143	RLE	L. Moreno	D. Indermill	10/15/05

FILEPATH:M:\ARCO\QTRLY-GW.MAP\0069\0069-GW\dwg\Q3\Q3-05\0069-Q3GW05.dwg | rerdman | Oct 11, 2005 at 8:58 | Layout: SM_FIG2



LEGEND

— — —	SITE PROPERTY LINE
MW-2	GROUNDWATER MONITORING WELL LOCATION
(113.82)	GROUNDWATER ELEVATION (Feet above mean sea level)
GRO / BENZ / MTBE / TBA / ETHANOL	GASOLINE RANGE ORGANICS (C4–C12), BENZENE, MTBE, TERTIARY BUTANOL, AND ETHANOL CONCENTRATIONS IN MICROGRAMS PER LITER (µg/L)
[0.51]	DISSOLVED–OXYGEN CONCENTRATIONS IN GROUNDWATER
(J)	ESTIMATED VALUE; BELOW LABORATORY REPORTING LIMIT AND ABOVE THE METHOD DETECTION LIMIT (MDL)
	GROUNDWATER ELEVATION CONTOUR LINE (DASHED WHERE INFERRED)
	GROUNDWATER FLOW DIRECTION
(INA)	WELL INACCESSIBLE, NOT SAMPLED
(NA)	NOT ANALIZED

N

NOTES:

1. SOURCE OF MAP: SECOR MAP DATED DECEMBER 2003 AND COUNTY ASSESSORS MAP DATED DECEMBER 17 1965.
2. GROUNDWATER MONITORING WELLS SURVEYED BY W.M. HOLDINGS JUNE 24, 2004.
3. GROUNDWATER MONITORING WELLS GAUGED AND SAMPLED ON AUGUST 19, 2005.

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STATION NO. 0069
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SITE MAP SHOWING GROUNDWATER CONTOUR AND HYDROCARBON CONCENTRATIONS

FIGURE: **3**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
37BP.U0069.04/3143	RLE	L. Moreno	D. Indermill	10/15/05

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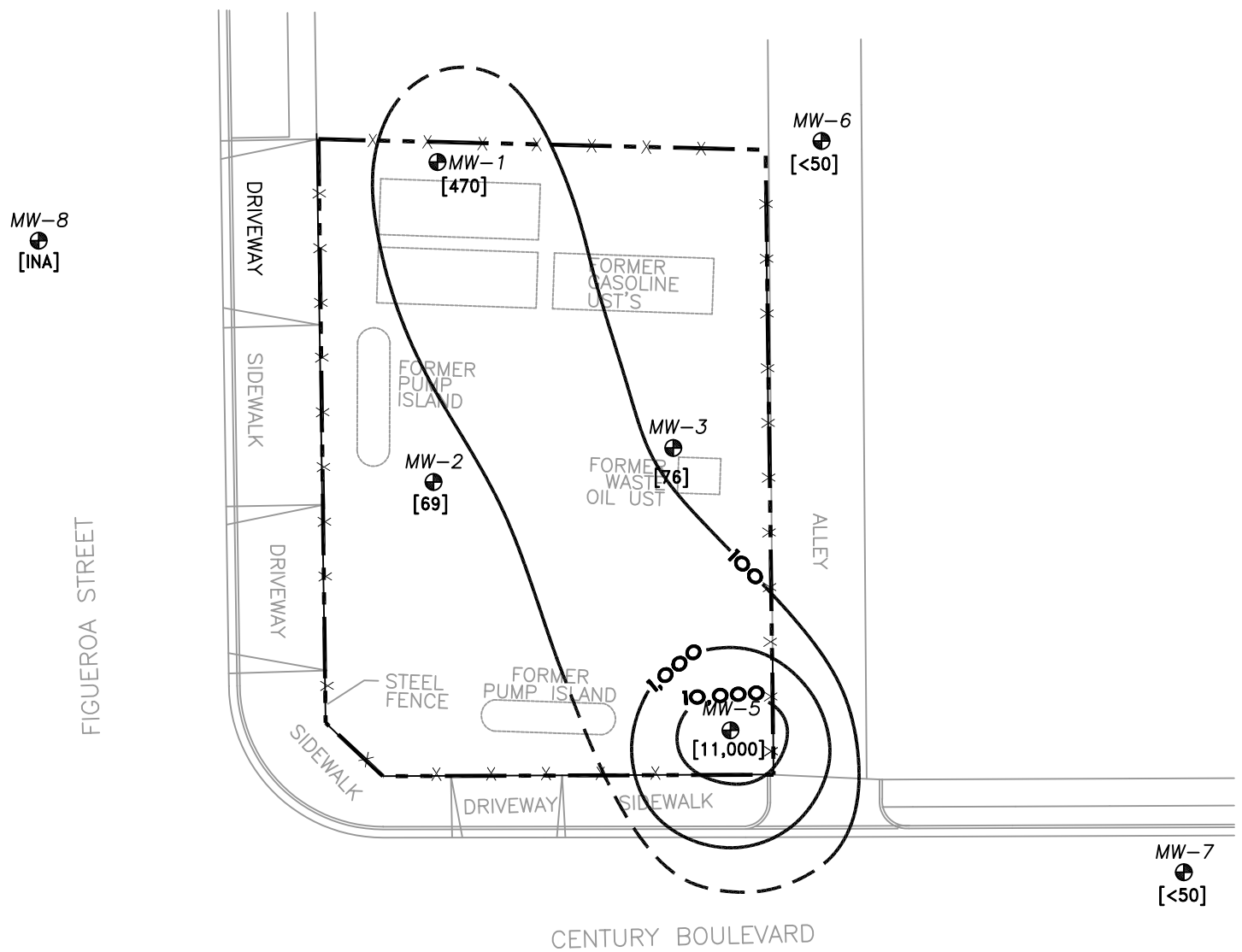

LEGEND

— — —	SITE PROPERTY LINE
MW-2 ⊕	GROUNDWATER MONITORING WELL LOCATION
[GRO]	GASOLINE RANGE ORGANICS (C4–C12), CONCENTRATIONS IN MICROGRAMS PER LITER (μg/L)
~	GRO ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)
(J)	ESTIMATED VALUE; BELOW LABORATORY REPORTING LIMIT AND ABOVE THE METHOD DETECTION LIMIT (MDL)
(INA)	WELL INACCESSIBLE, NOT SAMPLED

N

NOTES:

1. SOURCE OF MAP: SECOR MAP DATED DECEMBER 2003 AND COUNTY ASSESSORS MAP DATED DECEMBER 17 1965.
2. GROUNDWATER MONITORING WELLS SURVEYED BY W.M. HOLDINGS JUNE 24, 2004.
3. GROUNDWATER MONITORING WELLS GAUGED AND SAMPLED ON AUGUST 19, 2005.

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GRO ISOCONCENTRATION MAP

FIGURE: **4**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
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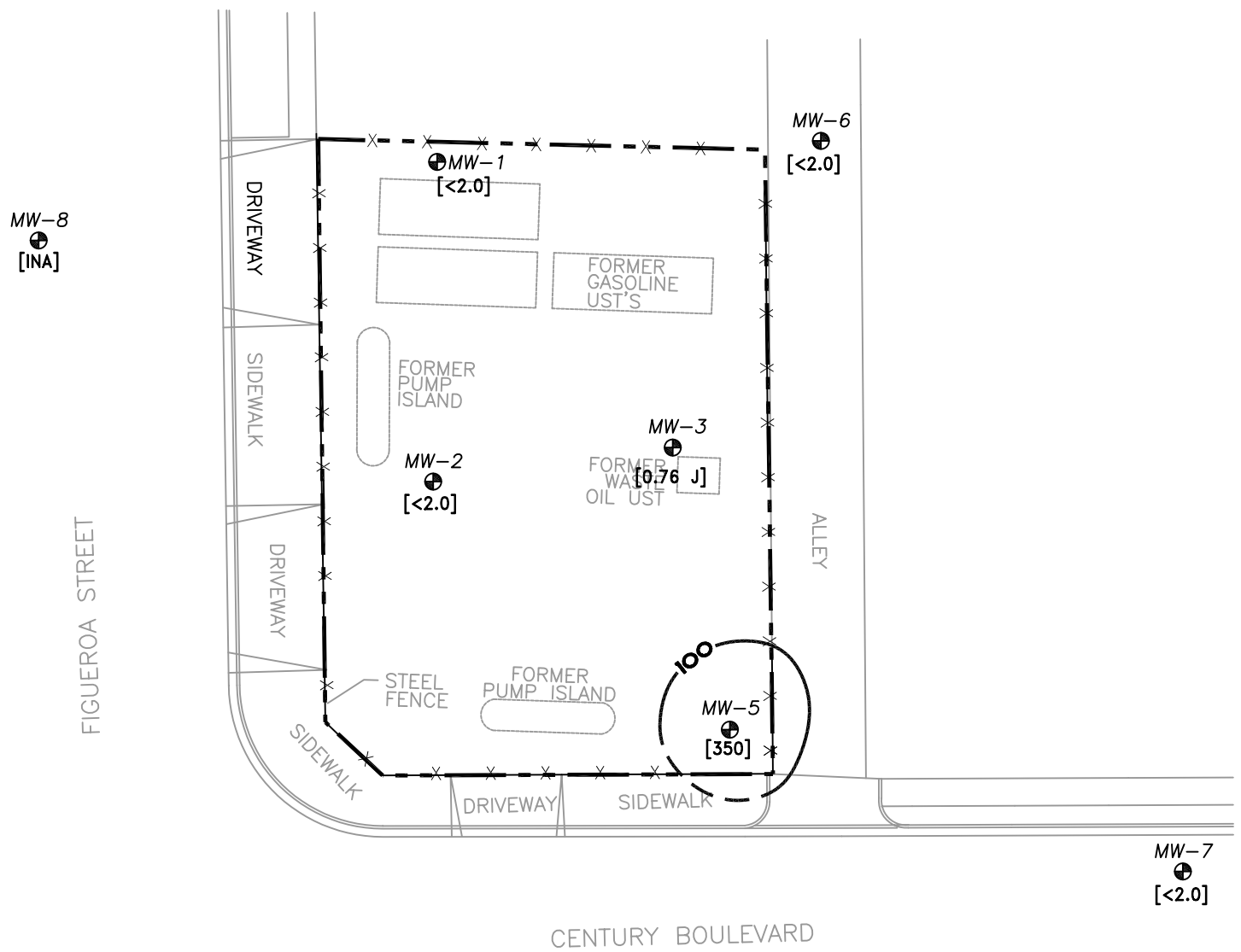

LEGEND

N

— — —	SITE PROPERTY LINE
MW-2 ⊕	GROUNDWATER MONITORING WELL LOCATION
[BENZ]	BENZENE CONCENTRATIONS IN MICROGRAMS PER LITER (μg/L)
∼	TPHG ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)
(J)	ESTIMATED VALUE; BELOW LABORATORY REPORTING LIMIT AND ABOVE THE METHOD DETECTION LIMIT (MDL)
(INA)	WELL INACCESSIBLE, NOT SAMPLED

NOTES:

1. SOURCE OF MAP: SECOR MAP DATED DECEMBER 2003 AND COUNTY ASSESSORS MAP DATED DECEMBER 17 1965.
2. GROUNDWATER MONITORING WELLS SURVEYED BY W.M. HOLDINGS JUNE 24, 2004.
3. GROUNDWATER MONITORING WELLS GAUGED AND SAMPLED ON AUGUST 19, 2005.

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BENZENE ISOCONCENTRATION MAP

FIGURE: **5**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
37BP.U0069.04/3143	RLE	L. Moreno	D. Indermill	10/15/05

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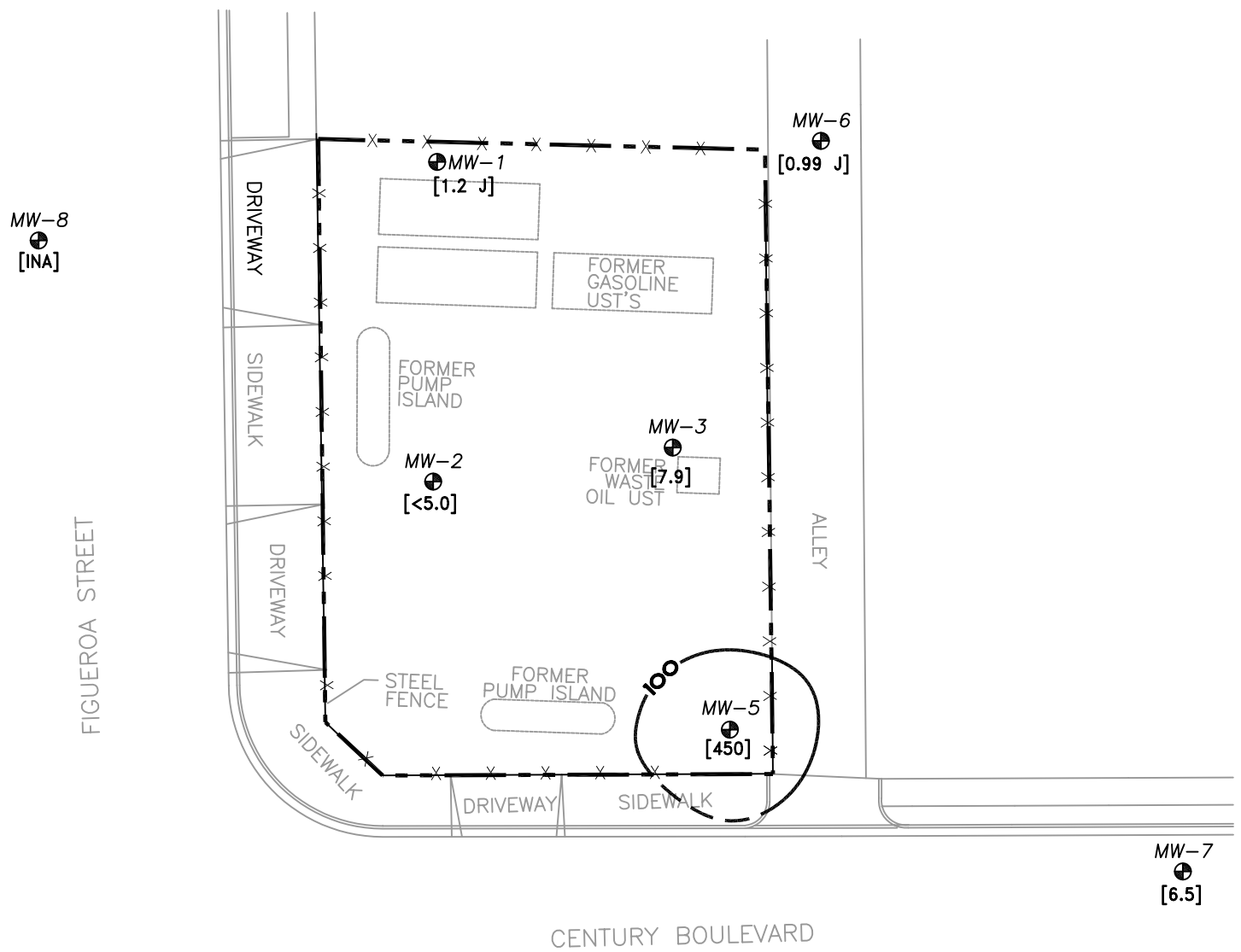

LEGEND

— — —	SITE PROPERTY LINE
MW-2 ⊕	GROUNDWATER MONITORING WELL LOCATION
[MTBE]	METHYL TERTIARY BUTYL ETHER CONCENTRATIONS IN MICROGRAMS PER LITER (μg/L)
∼	METHYL TERTIARY BUTYL ETHER ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)
(J)	ESTIMATED VALUE; BELOW LABORATORY REPORTING LIMIT AND ABOVE THE METHOD DETECTION LIMIT (MDL)
(INA)	WELL INACCESSIBLE, NOT SAMPLED

N

NOTES:

1. SOURCE OF MAP: SECOR MAP DATED DECEMBER 2003 AND COUNTY ASSESSORS MAP DATED DECEMBER 17 1965.
2. GROUNDWATER MONITORING WELLS SURVEYED BY W.M. HOLDINGS JUNE 24, 2004.
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MTBE ISOCONCENTRATION MAP

FIGURE: **6**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
37BP.U0069.04/3143	RLE	L. Moreno	D. Indermill	10/15/05

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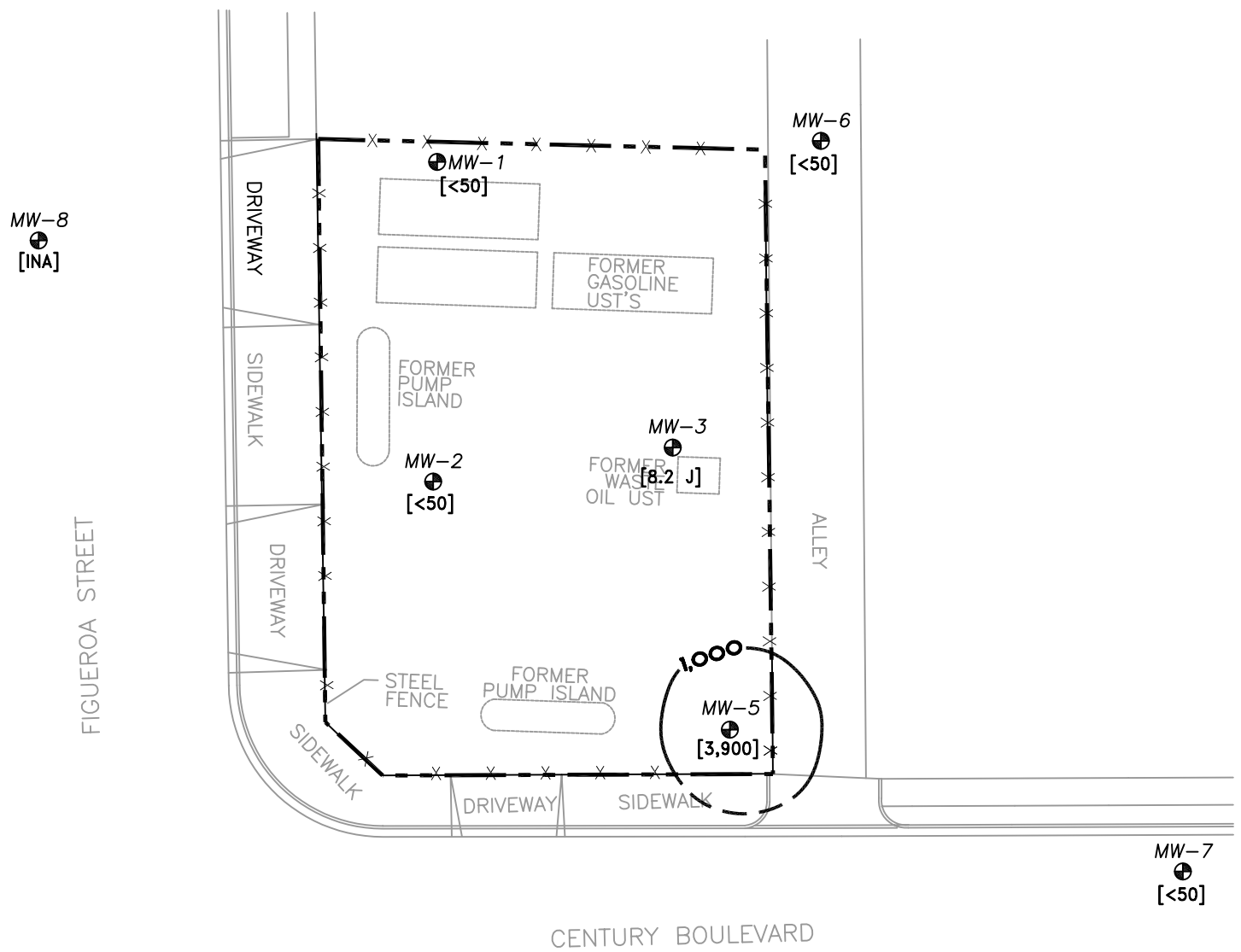

LEGEND

N

— — — —	SITE PROPERTY LINE
MW-2 ⊕	GROUNDWATER MONITORING WELL LOCATION
[TBA]	TERTIARY BUTANOL CONCENTRATIONS IN MICROGRAMS PER LITER (µg/L)
~	TERTIARY BUTANOL ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)
(J)	ESTIMATED VALUE; BELOW LABORATORY REPORTING LIMIT AND ABOVE THE METHOD DETECTION LIMIT (MDL)
(INA)	WELL INACCESSIBLE, NOT SAMPLED

NOTES:

1. SOURCE OF MAP: SECOR MAP DATED DECEMBER 2003 AND COUNTY ASSESSORS MAP DATED DECEMBER 17 1965.
2. GROUNDWATER MONITORING WELLS SURVEYED BY W.M. HOLDINGS JUNE 24, 2004.
3. GROUNDWATER MONITORING WELLS GAUGED AND SAMPLED ON AUGUST 19, 2005.

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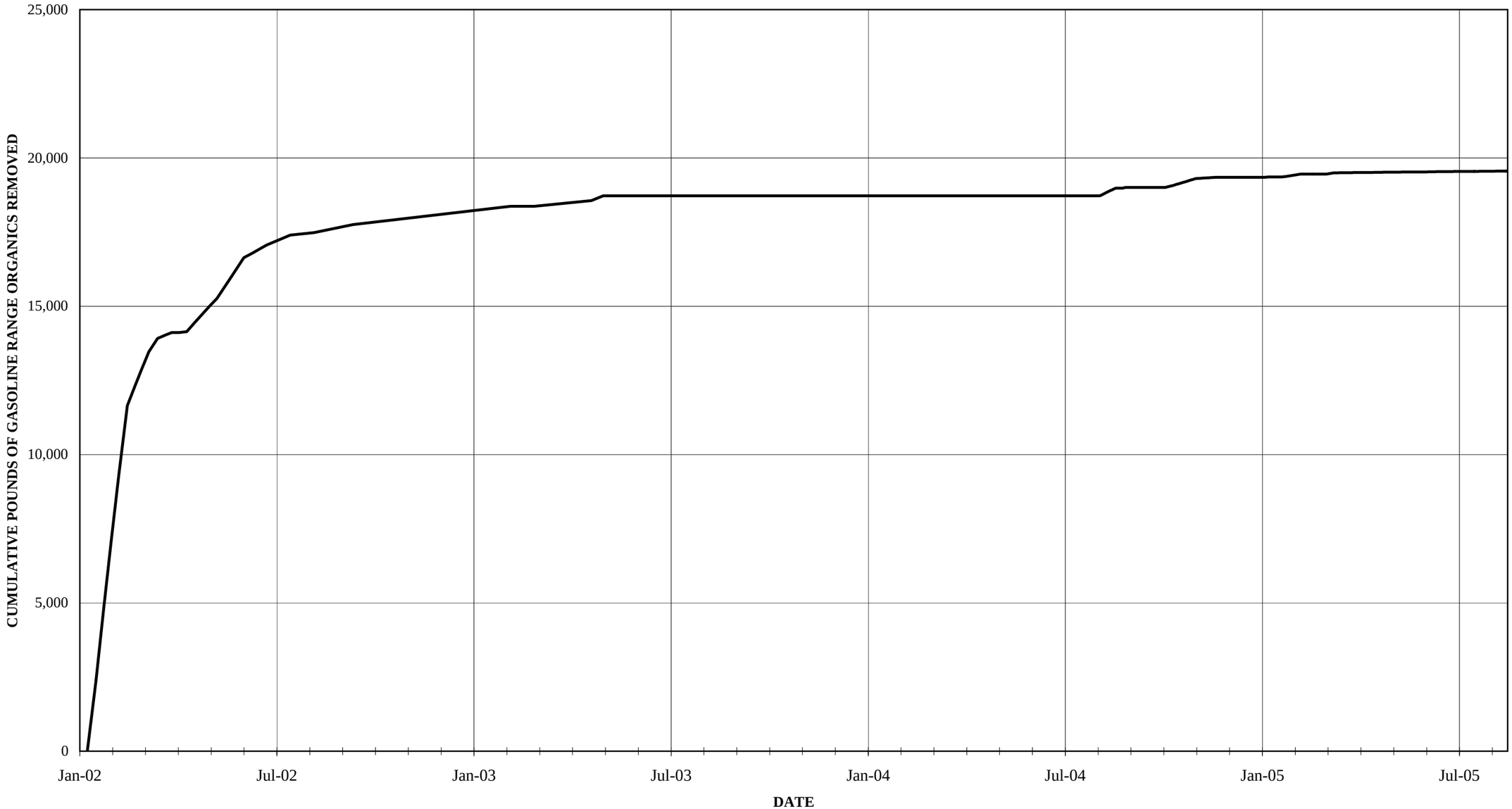
TBA ISOCONCENTRATION MAP

FIGURE: **7**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
37BP.U0069.04/3143	RLE	L. Moreno	D. Indermill	10/15/05

FILEPATH:M:\ARCO\QTRLY-GW.MAP\0069\0069-GW\dwg\Q3\Q3-05\0069-Q3GW05.dwg | rerdman | Oct 11, 2005 at 9:00 | Layout: TBA_FIG7

FIGURE 8
ATLANTIC RICHFIELD COMPANY SERVICE STATION NO. 0069
CUMULATIVE POUNDS OF GASOLINE RANGE ORGANICS REMOVED



Tables

TABLE 1
SVE OPERATION REPORT

ARCO STATION NO. 0069 **9922 Figueroa Street, Los Angeles, CA** **VES SUMMARY OF THE OPERATING PERIOD** **Third Quarter, 2005**	
Atlantic Richfield Company Engineer:	Ray Vose
Consultant:	SECOR International Incorporated
Lead Agency:	SCAQMD
Reporting Period:	July 1, 2005 through September 30, 2005
Equipment Inventory:	King, Buck/Hasstech, Model MMC-5A Skid Mounted
Operating Mode:	Thermal Oxidation
SCAQMD Permit #:	F64757
Influent GRO Concentration at system start up:	System startup 1/9/02
Field observed concentration:	1,904 ppmv
Laboratory reported concentration:	760 ppmv
Influent Benzene Concentration at system start up:	System startup 2/19/04
Field observed concentration:	not measured
Laboratory reported concentration:	1.9 ppmv
Influent GRO Concentration at end of period:	
Field observed concentration:	125 ppmv (9/22/05)
Laboratory reported concentration:	10 ppmv (9/8/05)
Influent Benzene Concentration at end of period:	
Field observed concentration:	not measured
Laboratory reported concentration:	<0.001 ppmv (9/8/05)
Flow Rate at end of period:	151 scfm (9/22/05)
Gasoline Range Organics Removed This Period:	32 lb
Utility usage:	
Electricity:	4,480 kWh
Natural Gas:	5,697 Therms
Percent up time during this period:	47% (Vapor Extraction)
Number of auto shut downs during this period:	2 (Vapor Extraction)

Notes:
NA = Not Available
GRO = Gasoline Range Organics (C_4 - C_{12})

TABLE 2
SUMMARY OF SVE OPERATION DATA

ARCO STATION NO. 0069 **9922 Figueroa Street, Los Angeles, CA** **VES OPERATING REPORT** **Third Quarter, 2005**			
CURRENT SOURCE (Without Dilution Air Added)			
Current Well Source:	VE-6, MW-5, V-1 low, V-1 high, V-1 mid, V-3 low, V-3 high		
GRO Concentration at end of period:	10	ppmv	(9/8/05)
GRO Concentration at end of last period:	15	ppmv	(6/2/05)
Initial GRO Concentration:	760	ppmv	(initial startup 2/19/04)
Benzene Concentration at end of period:	<0.001	ppmv	(9/8/05)
Benzene Concentration at end of last period:	<0.004	ppmv	(6/2/05)
Initial Benzene Concentration:	1.9	ppmv	(initial startup 2/19/04)
CURRENT PROCESS (With Dilution Air Added) - INFLUENT SUMMARY			
GRO Concentration at end of period:	NA		
GRO Concentration at end of last period:	NA		
Benzene Concentration at end of period:	NA		
Benzene Concentration at end of last period:	NA		
Initial Benzene Concentration:	NA		
CURRENT PROCESS - EFFLUENT SUMMARY			
GRO Concentration at end of period:	2.1	ppmv	(9/8/05)
GRO Permit Requirement Concentration:	50	ppmv	(as Hexane)
Percent (%) TPH Conversion:	99.5	%	
Benzene Concentration at end of period:	<0.001	ppmv	(9/8/05)
Benzene Permit Requirement Concentration:	0.4	ppmv	
MTBE Concentration at end of period:	NM	ppmv	
MTBE Permit Requirement Concentration:	3.9	ppmv	
Cumulative Hydrocarbons removed:	19,574	lb	
Avg. Stack Temperature (Process):	1451	deg. F	
(Catalytic/Outlet):	1441	deg. F	
Avg. Source Flow:	150	scfm	
Avg. Effluent Flow:	150	scfm	
Avg. Source Vacuum:	64	in. H_2O	

Notes:
Average values do not include down time.
NA = Not Applicable
NM = Not Measured
GRO = Gasoline Range Organics (C_4 - C_{12})

TABLE 3a

DAILY OPERATIONAL LOG
ATLANTIC RICHFIELD COMPANY SERVICE STATION #0069
SYSTEM START-UP DATE: 1/9/02

JULY, 2005

DATE	DATA SOURCE	NOTES	LAB INFLUENT CONC. SOURCE (PPMV)	LAB EFFLUENT CONC. (PPMV)	FIELD INFLUENT CONC. SOURCE (PPMV)	FIELD EFFLUENT CONC. (PPMV)	GRO CONV. (%)	SOURCE FLOW (SCFM)	MANIFOLD VACUUM (IN H2O)	PROCESS TEMP. (DEG F)	CATALYTIC /OUTLET TEMP. (DEG F)	CUMULATIVE HYDROCARBONS REMOVED (LB)	HOURS ON-LINE
07/01/05	system off											19,542	0.1
07/02/05	system off											19,542	0.0
07/03/05	system off											19,542	0.0
07/04/05	system off											19,542	0.0
07/05/05	system off											19,542	0.0
07/06/05	system off											19,542	0.0
07/07/05	TECH	1	11	1.0		0.0	90.9	156	52	1,452	1,445	19,543	16.0
07/08/05	*					0.0	90.9	156	52	1,452	1,445	19,543	24.0
07/09/05	*					0.0	90.9	156	52	1,452	1,445	19,544	24.0
07/10/05	*					0.0	90.9	156	52	1,452	1,445	19,545	24.0
07/11/05	*					0.0	90.9	156	52	1,452	1,445	19,545	24.0
07/12/05	*					0.0	90.9	156	52	1,452	1,445	19,546	24.0
07/13/05	*					0.0	90.9	156	52	1,452	1,445	19,546	24.0
07/14/05	TECH	2, 3			364	0.0	90.9	149	71	1,452	1,446	19,546	10.3
07/15/05	system off											19,546	0.0
07/16/05	system off											19,546	0.0
07/17/05	system off											19,546	0.0
07/18/05	system off											19,546	0.0
07/19/05	system off											19,546	0.0
07/20/05	TECH	4			219	0.0	90.9	148	70	1,457	1,442	19,547	14.3
07/21/05	*				219	0.0	90.9	148	70	1,457	1,442	19,547	24.0
07/22/05	*				219	0.0	90.9	148	70	1,457	1,442	19,548	24.0
07/23/05	*				219	0.0	90.9	148	70	1,457	1,442	19,548	24.0
07/24/05	*				219	0.0	90.9	148	70	1,457	1,442	19,549	24.0
07/25/05	*				219	0.0	90.9	148	70	1,457	1,442	19,549	24.0
07/26/05	*				219	0.0	90.9	148	70	1,457	1,442	19,550	24.0
07/27/05	TECH	3			187	0.0	90.9	147	72	1,459	1,448	19,550	9.7
07/28/05	system off											19,550	0.0
07/29/05	system off											19,550	0.0
07/30/05	system off											19,550	0.0
07/31/05	system off											19,550	0.0

TOTAL POUNDS OF HYDROCARBONS REMOVED SINCE INITIAL START UP	19,550
TOTAL POUNDS OF HYDROCARBONS REMOVED DURNG APRIL, 2005	8
TOTAL HOURS ON-LINE DURING APRIL, 2005	338

Notes:
1 - Restarted system. Certified vapor sampling.
2 - Closed V-1 High and V-1 Mid to pull more out of MW-5.
3 - Shutdown system for off cycle.
4 - Restarted system from off cycle.

TECH - Technician performed O&M on this date
GRO - Gasoline Range Organics (C_4 - C_{12})
* - Data extrapolated
-- - Not Applicable

TABLE 3b

DAILY OPERATIONAL LOG
ATLANTIC RICHFIELD COMPANY SERVICE STATION #0069
SYSTEM START-UP DATE: 1/9/02

AUGUST, 2005

DATE	DATA SOURCE	NOTES	LAB INFLUENT CONC. SOURCE (PPMV)	LAB EFFLUENT CONC. (PPMV)	FIELD INFLUENT CONC. SOURCE (PPMV)	FIELD EFFLUENT CONC. (PPMV)	GRO CONV. (%)	SOURCE FLOW (SCFM)	MANIFOLD VACUUM (IN H2O)	PROCESS TEMP. (DEG F)	CATALYTIC /OUTLET TEMP. (DEG F)	CUMULATIVE HYDROCARBONS REMOVED (LB)	HOURS ON-LINE
08/01/05	system off											19,550	0.0
08/02/05	system off											19,550	0.0
08/03/05	TECH	1	23	<1.0	129	0.0	97.8	148	71	1,456	1,442	19,551	12.9
08/04/05	*				129	0.0	97.8	148	71	1,456	1,442	19,552	24.0
08/05/05	*				129	0.0	97.8	148	71	1,456	1,442	19,553	24.0
08/06/05	*				129	0.0	97.8	148	71	1,456	1,442	19,554	24.0
08/07/05	*				129	0.0	97.8	148	71	1,456	1,442	19,555	24.0
08/08/05	*				129	0.0	97.8	148	71	1,456	1,442	19,556	24.0
08/09/05	*				129	0.0	97.8	148	71	1,456	1,442	19,557	24.0
08/10/05	TECH	2			144	0.0	97.8	145	70	1,452	1,440	19,558	9.0
08/11/05	system off											19,558	0.0
08/12/05	system off											19,558	0.0
08/13/05	system off											19,558	0.0
08/14/05	system off											19,558	0.0
08/15/05	system off											19,558	0.0
08/16/05	system off											19,558	0.0
08/17/05	system off											19,558	0.0
08/18/05	TECH				159	0.0	97.8	144	68	1,448	1,438	19,559	15.0
08/19/05	*				159	0.0	97.8	144	68	1,448	1,438	19,560	24.0
08/20/05	*				159	0.0	97.8	144	68	1,448	1,438	19,561	24.0
08/21/05	*				159	0.0	97.8	144	68	1,448	1,438	19,561	8.4
08/22/05	system off											19,561	0.0
08/23/05	system off											19,561	0.0
08/24/05	system off											19,561	0.0
08/25/05	system off											19,561	0.0
08/26/05	TECH	3			118	0.0	97.8	148	66	1,442	1,435	19,561	0.2
08/27/05	system off											19,561	0.0
08/28/05	system off											19,561	0.0
08/29/05	system off											19,561	0.0
08/30/05	system off											19,561	0.0
08/31/05	system off											19,561	0.0

TOTAL POUNDS OF HYDROCARBONS REMOVED SINCE INITIAL START UP	19,561
TOTAL POUNDS OF HYDROCARBONS REMOVED DURNG MAY, 2005	11
TOTAL HOURS ON-LINE DURING MAY, 2005	238

Notes:
1 - Restarted system. Certified vapor sampling.
2 - Shutdown system for off cycle.
3 - System down due to low temperature failure. Restarted system. Took readings. Shut down system for off cycle.

TECH - Technician performed O&M on this date
* - Data extrapolated
GRO - Gasoline Range Organics (C_4 - C_{12})
-- - Not Applicable

TABLE 3c

DAILY OPERATIONAL LOG
ATLANTIC RICHFIELD COMPANY SERVICE STATION #0069
SYSTEM START-UP DATE: 1/9/02

SEPTEMBER, 2005

DATE	DATA SOURCE	NOTES	LAB INFLUENT CONC. SOURCE (PPMV)	LAB EFFLUENT CONC. (PPMV)	FIELD INFLUENT CONC. SOURCE (PPMV)	FIELD EFFLUENT CONC. (PPMV)	GRO CONV. (%)	SOURCE FLOW (SCFM)	MANIFOLD VACUUM (IN H2O)	PROCESS TEMP. (DEG F)	CATALYTIC /OUTLET TEMP. (DEG F)	CUMULATIVE HYDROCARBONS REMOVED (LB)	HOURS ON-LINE
09/01/05	system off											19,561	0.0
09/02/05	TECH	1			127	0.0	97.8	148	60	1,447	1,440	19,562	12.5
09/03/05	*				127	0.0	97.8	148	60	1,447	1,440	19,563	24.0
09/04/05	*				127	0.0	97.8	148	60	1,447	1,440	19,564	24.0
09/05/05	*				127	0.0	97.8	148	60	1,447	1,440	19,565	24.0
09/06/05	*				127	0.0	97.8	148	60	1,447	1,440	19,566	24.0
09/07/05	*				127	0.0	97.8	148	60	1,447	1,440	19,567	24.0
09/08/05	TECH	2, 3	10	2.1	93	0.0	79.0	152	61	1,446	1,439	19,567	12.6
09/09/05	system off											19,567	0.0
09/10/05	system off											19,567	0.0
09/11/05	system off											19,567	0.0
09/12/05	system off											19,567	0.0
09/13/05	system off											19,567	0.0
09/14/05	system off											19,567	0.0
09/15/05	TECH	1			90	0.0	79.0	155	60	1,450	1,442	19,568	12.7
09/16/05	*				90	0.0	79.0	155	60	1,450	1,442	19,568	24.0
09/17/05	*				90	0.0	79.0	155	60	1,450	1,442	19,569	24.0
09/18/05	*				90	0.0	79.0	155	60	1,450	1,442	19,569	24.0
09/19/05	*				90	0.0	79.0	155	60	1,450	1,442	19,570	24.0
09/20/05	*				90	0.0	79.0	155	60	1,450	1,442	19,570	11.3
09/21/05	system off											19,570	0.0
09/22/05	TECH	4			125	0.0	79.0	151	62	1,452	1,445	19,570	13.0
09/23/05	*				125	0.0	79.0	151	62	1,452	1,445	19,571	24.0
09/24/05	*				125	0.0	79.0	151	62	1,452	1,445	19,571	24.0
09/25/05	*				125	0.0	79.0	151	62	1,452	1,445	19,572	24.0
09/26/05	*				125	0.0	79.0	151	62	1,452	1,445	19,572	24.0
09/27/05	*				125	0.0	79.0	151	62	1,452	1,445	19,573	24.0
09/28/05	*				125	0.0	79.0	151	62	1,452	1,445	19,573	24.0
09/29/05	TECH				150	0.0	79.0	146	66	1,428	1,418	19,574	24.0
09/30/05	*				150	0.0	79.0	146	66	1,428	1,418	19,574	24.0

TOTAL POUNDS OF HYDROCARBONS REMOVED SINCE INITIAL START UP	19,574
TOTAL POUNDS OF HYDROCARBONS REMOVED DURNG JUNE, 2005	13
TOTAL HOURS ON-LINE DURING JUNE, 2005	470

Notes:
1 - Restarted system from off cycle.
2 - Certified vapor sampling.
3 - Shut down system for off cycle.
4 - System was down with no alarms. Restarted system.

TECH - Technician performed O&M on this date
* - Data extrapolated
GRO - Gasoline Range Organics (C_4 - C_{12})
-- - Not Applicable

TABLE 4a
Individual Air Sparge Well Monitoring Data
Atlantic Richfield Company Service Station #69
9922 Figueroa Street, Los Angeles, CA
Initial Start-Up Date 2/19/04

Well Number	Monitoring Date	Injection Flow Rate (scfh)	Injection Pressure (psi)
AS-1	system off		
AS-2	system off		
AS-3	system off		
AS-4	system off		
AS-5	system off		

-- Not measured.

TABLE 4b
Individual Soil Vapor Extraction Well Field Monitoring Data
Atlantic Richfield Company Service Station #0069
9922 Figueroa Street, Los Angeles, CA
Initial Start-up Date 1/9/02

Well Number (Slotted Interval) (Start-up H.C. ppmv)	Monitoring Date	VOC Concentration (ppmv)	Vapor Well Flow Rate (scfm)	Vacuum at Flow Potential (in. w.c.)	Well Status (% open)
VE-6	07/07/05	415	--	52	open
	07/14/05	218	--	71	open
	07/20/05	196	--	70	open
(14 TO 24.5)	07/27/05	142	--	72	open
	08/03/05	117	--	71	open
(28)*	08/10/05	94	--	70	open
	08/26/05	85	--	68	open
	09/02/05	90	--	66	open
	09/08/05	100	--	60	open
	09/15/05	49	--	59	open
	09/22/05	39	--	61	open
	09/29/05	94	--	66	open
MW-5	07/07/05	289	--	52	open
	07/14/05	247	--	71	open
	07/20/05	124	--	70	open
(5 TO 30)	07/27/05	191	--	72	open
	08/03/05	194	--	71	open
(64)*	08/10/05	154	--	70	open
	08/26/05	156	--	68	open
	09/02/05	177	--	60	open
	09/08/05	178	--	60	open
	09/15/05	193	--	59	open
	09/22/05	211	--	61	open
	09/29/05	144	--	66	open
MW-3	07/07/05	--	--	--	closed
	07/14/05	--	--	--	closed
	07/20/05	--	--	--	closed
(20 TO 40)	07/27/05	--	--	--	closed
	08/03/05	--	--	--	closed
(1,600)*	08/10/05	--	--	--	closed
	08/26/05	--	--	--	closed
	09/02/05	--	--	--	closed
	09/08/05	--	--	--	closed
	09/15/05	--	--	--	closed
	09/22/05	--	--	--	closed
	09/29/05	--	--	--	open

TABLE 4b
Individual Soil Vapor Extraction Well Field Monitoring Data
Atlantic Richfield Company Service Station #0069
9922 Figueroa Street, Los Angeles, CA
Initial Start-up Date 1/9/02

Well Number (Slotted Interval) (Start-up H.C. ppmv)	Monitoring Date	VOC Concentration (ppmv)	Vapor Well Flow Rate (scfm)	Vacuum at Flow Potential (in. w.c.)	Well Status (% open)
MW-2	07/07/05	--	--	--	closed
	07/14/05	--	--	--	closed
	07/20/05	--	--	--	closed
(6 TO 31)	07/27/05	--	--	--	closed
	08/03/05	--	--	--	closed
(530)*	08/10/05	--	--	--	closed
	08/26/05	--	--	--	closed
	09/02/05	--	--	--	closed
	09/08/05	--	--	--	closed
	09/15/05	--	--	--	closed
	09/22/05	--	--	--	closed
	09/29/05	--	--	--	open
V-4 Low	07/07/05	--	--	--	closed
	07/14/05	--	--	--	closed
	07/20/05	--	--	--	closed
(10 TO 17)	07/27/05	--	--	--	closed
	08/03/05	--	--	--	closed
(3,500)*	08/10/05	--	--	--	closed
	08/26/05	--	--	--	closed
	09/02/05	--	--	--	closed
	09/08/05	--	--	--	closed
	09/15/05	--	--	--	closed
	09/22/05	--	--	--	closed
	09/29/05	--	--	--	open
V-4 High	07/07/05	--	--	--	closed
	07/14/05	--	--	--	closed
	07/20/05	--	--	--	closed
(35.5 TO 53.5)	07/27/05	--	--	--	closed
	08/03/05	--	--	--	closed
(54)*	08/10/05	--	--	--	closed
	08/26/05	--	--	--	closed
	09/02/05	--	--	--	closed
	09/08/05	--	--	--	closed
	09/15/05	--	--	--	closed
	09/22/05	--	--	--	closed
	09/29/05	--	--	--	open

TABLE 4b
Individual Soil Vapor Extraction Well Field Monitoring Data
Atlantic Richfield Company Service Station #0069
9922 Figueroa Street, Los Angeles, CA
Initial Start-up Date 1/9/02

Well Number (Slotted Interval) (Start-up H.C. ppmv)	Monitoring Date	VOC Concentration (ppmv)	Vapor Well Flow Rate (scfm)	Vacuum at Flow Potential (in. w.c.)	Well Status (% open)
	07/07/05	--	--	--	closed
MW-1	07/14/05	--	--	--	closed
	07/20/05	--	--	--	closed
(5 TO 31)	07/27/05	--	--	--	closed
	08/03/05	--	--	--	closed
(4,200)*	08/10/05	--	--	--	closed
	08/26/05	--	--	--	closed
	09/02/05	--	--	--	closed
	09/08/05	--	--	--	closed
	09/15/05	--	--	--	closed
	09/22/05	--	--	--	closed
	09/29/05	--	--	--	open
V-1 Low	07/07/05	--	--	--	closed
	07/14/05	--	--	--	closed
	07/20/05	--	--	--	closed
(20 TO 40)	07/27/05	--	--	--	closed
	08/03/05	--	--	--	closed
(3,900)*	08/10/05	--	--	--	closed
	08/26/05	--	--	--	closed
	09/02/05	--	--	--	closed
	09/08/05	--	--	--	closed
	09/15/05	--	--	--	closed
	09/22/05	--	--	--	closed
	09/29/05	--	--	--	open
V-1 High	07/07/05	311	--	52	open
	07/14/05	--	--	--	closed
	07/20/05	--	--	--	closed
(15 TO 30)	07/27/05	--	--	--	closed
	08/03/05	--	--	--	closed
(4,700)*	08/10/05	--	--	--	closed
	08/26/05	--	--	--	closed
	09/02/05	--	--	-	closed
	09/08/05	--	--	-	closed
	09/15/05	--	--	--	closed
	09/22/05	--	--	--	closed
	09/29/05	--	--	--	open

TABLE 4b
Individual Soil Vapor Extraction Well Field Monitoring Data
Atlantic Richfield Company Service Station #0069
9922 Figueroa Street, Los Angeles, CA
Initial Start-up Date 1/9/02

Well Number (Slotted Interval) (Start-up H.C. ppmv)	Monitoring Date	VOC Concentration (ppmv)	Vapor Well Flow Rate (scfm)	Vacuum at Flow Potential (in. w.c.)	Well Status (% open)
V-1 Mid	07/07/05	128	--	52	open
	07/14/05	--	--	--	closed
	07/20/05	--	--	--	closed
(17 TO 26.5)	07/27/05	--	--	--	closed
	08/03/05	--	--	--	closed
(2,800)*	08/10/05	--	--	--	closed
	08/26/05	--	--	--	closed
	09/02/05	--	--	--	closed
	09/08/05	--	--	--	closed
	09/15/05	--	--	--	closed
	09/22/05	--	--	--	closed
	09/29/05	--	--	--	open
V-3 Low	07/07/05	176	--	52	open
	07/14/05	156	--	71	open
	07/20/05	141	--	70	open
(17 TO 26.5)	07/27/05	149	--	72	open
	08/03/05	152	--	71	open
(2,800)*	08/10/05	178	--	70	open
	08/26/05	209	-	68	open
	09/02/05	376	-	60	open
	09/08/05	224	-	60	open
	09/15/05	205	--	59	open
	09/22/05	253	--	61	open
	09/29/05	196	--	66	open
V-3 High	07/07/05	21	--	52	open
	07/14/05	171	--	71	open
	07/20/05	179	--	70	open
(32 TO 51.5)	07/27/05	171	--	72	open
	08/03/05	129	--	71	open
(80)*	08/10/05	141	--	70	open
	08/26/05	155	--	68	open
	09/02/05	124	--	60	open
	09/08/05	109	--	60	open
	09/15/05	117	--	59	open
	09/22/05	104	--	61	open
	09/29/05	113	--	66	open

VOC = Volatile Range Organics
* = GRO from Laboratory analytical samples taken on start-up
-- = not measured

TABLE 5
Summary of Process Vapor Sampling Results
ARCO STATION NO. 0069
9922 Figueroa Street, Los Angeles, CA

Sample Date	Sample ID	GRO (ppmV)	Benzene (ppmV)	Ethylbenzene (ppmV)	Toluene (ppmV)	Total Xylenes (ppmV)	DIPE (ppmV)	ETBE (ppmV)	MTBE (ppmV)	TAME (ppmV)	TBA (ppmV)	CO_2 (%)	CO (%)	CH_4 (%)	N_2 (%)	O_2 (%)
EPA Method:		8015M	8260B									ASTM 1946-90				
8/5/2004	Influent	240	<1.2	<0.92	1.2	6.5	<2.4	<2.7	<2.8	<2.4	<33	2.5	<0.10	<0.10	79	18
	Effluent	5.1	<0.059	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	4.3	<0.10	<0.10	81	15
10/5/2004	Influent	180	<1.2	1.8	4	19	<2.4	<2.7	<2.8	<2.4	<33	--	--	--	--	--
	Effluent	<2.4	<0.059	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	--	--	--	--	--
11/2/2004	Influent	38	<1.2	<0.92	<1.1	3.6	<2.4	<2.7	<2.8	<2.4	<33	0.55	<0.10	<0.10	78	21
	Effluent	<2.4	<0.059	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	4.1	0.10	<0.10	80	16
EPA Method:		TO-3	TO-14A									ASTM 1946				
1/6/2005	Influent	100	0.089	0.58	0.43	6.9	<0.02	<0.02	0.14	<0.02	<0.10	0.62	<0.001	0.0061	77	21
	Effluent	<1.0	<0.002	<0.002	<0.005	0.0036	<0.002	<0.002	<0.002	<0.002	<0.010	0.052	<0.001	0.00021	76	21
3/10/2005	Influent	9.7	<0.004	0.071	<0.01	1.4	<0.004	<0.004	<0.004	<0.004	<0.02	0.22	<0.001	0.00026	77	22
	Effluent	<1.0	<0.002	<0.002	<0.005	0.014	<0.002	<0.002	<0.002	<0.002	<0.01	0.061	<0.001	0.00028	77	22
4/7/2005	Influent	13	<0.004	0.076	<0.01	1.4	<0.004	<0.004	<0.004	<0.004	0.026	0.25	<0.001	0.00047	78	22
	Effluent	<1.0	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	0.049	<0.001	0.00020	78	22
5/5/2005	Influent	11	0.0054	0.051	<0.005	0.89	<0.002	<0.002	0.0051	<0.002	0.011	0.38	<0.001	0.00130	79	21
	Effluent	<1.0	<0.002	<0.002	0.0054	0.0062	<0.002	<0.002	<0.002	<0.002	<0.01	0.055	<0.001	0.00018	78	22
6/2/2005	Influent	15	<0.004	0.062	<0.01	1.1	<0.004	<0.004	<0.004	<0.004	<0.02	0.37	<0.001	0.00130	78	21
	Effluent	<1.0	<0.002	<0.002	<0.005	0.0092	<0.002	<0.002	<0.002	<0.002	<0.01	0.042	<0.001	<0.00020	78	22
7/7/2005	Influent	11	0.0083	0.029	<0.005	0.58	<0.002	<0.002	<0.002	<0.002	<0.01	0.43	<0.001	0.00400	79	21
	Effluent	1.0	<0.002	0.0033	0.005	0.025	<0.002	<0.002	<0.002	<0.002	<0.01	0.056	<0.001	0.00024	77	23
8/3/2005	Influent	23	0.0076	0.029	<0.005	0.45	<0.002	<0.002	0.0063	<0.002	<0.01	0.48	<0.001	0.00420	79	22
	Effluent	<1.0	<0.002	<0.002	<0.005	0.009	<0.002	<0.002	<0.002	<0.002	<0.01	0.048	<0.001	0.00024	78	24
EPA Method:		TO-3	TO-14									ASTM 1946				
9/8/2005	Influent	10	<0.001	0.0016	0.0024	0.00185	--	--	--	--	--	0.062	--	<0.001	64	17
	Effluent	2.1	<0.001	<0.001	0.002	0.0016	--	--	--	--	--	0.010	--	<0.001	77	21

Notes:

GRO = Gasoline Range Organics (C_4 - C_{12})

Effluent Benzene analyzed using EPA Method 410A Modified

Fixed gases analyzed using ASTM 1946-90

ppmV = Parts per million on a volume basis

-- = Not sampled/Not analyzed

DIPE = Di-Isopropyl ether

ETBE = Ethyl tert-butyl ether

MTBE = Methyl Tertiary Butyl Ether

TAME = Tertiary-amyl methylether

TBA = Tert-butyl alcohol

CO_2 = Carbon dioxide

CO = Carbon monoxide

CH_4 = Methane

N_2 = Nitrogen

O_2 = Oxygen

(%) = Percentage of air volume

TABLE 6
Summary of Individual Well Vapor Sample Analytical Results
ARCO STATION NO. 0069
9922 Figueroa Street, Los Angeles, CA

Sample Date	Sample ID	GRO (ppmV)	Benzene (ppmV)	Ethylbenzene (ppmV)	Toluene (ppmV)	Total Xylenes (ppmV)	DIPE (ppmV)	ETBE (ppmV)	MTBE (ppmV)	TAME (ppmV)	TBA (ppmV)	CO_2 (%)	CO (%)	CH_4 (%)	N_2 (%)	O_2 (%)
8/5/2004	V-1a Low	95	<1.2	<0.92	<1.1	2.6	<2.4	<2.7	<2.8	<2.4	<33	2.1	<0.10	<0.10	78	20
8/5/2004	V-1b Mid	1,600	6.1	10	2.8	82	<2.4	<2.7	<2.8	<2.4	<33	8.1	<0.10	0.11	82	9.8
8/5/2004	V-1c High	48	<1.2	<0.92	<1.1	4.6	<2.4	<2.7	<2.8	<2.4	<33	1.9	<0.10	<0.10	78	20
8/5/2004	V-3a Low	16	<1.2	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	4.2	<0.10	<0.10	81	15
8/5/2004	V-3b High	23	<1.2	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	3.0	<0.10	<0.10	80	17
8/5/2004	V-4a Low	7.6	<1.2	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	1.4	<0.10	<0.10	79	20
8/5/2004	V-4b High	62	<1.2	<0.92	<1.1	4.5	<2.4	<2.7	<2.8	<2.4	<33	1.4	<0.10	<0.10	82	16
8/5/2004	V-6	1,100	5.4	2.3	5.6	19	<2.4	<2.7	6.3	<2.4	<33	5.0	<0.10	0.11	82	13
8/5/2004	MW-1	13	<1.2	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	1.5	<0.10	<0.10	82	17
8/5/2004	MW-2	22	<1.2	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	0.81	<0.10	<0.10	84	16
8/5/2004	MW-3	18	<1.2	<0.92	<1.1	<1.8	<2.4	<2.7	<2.8	<2.4	<33	0.79	<0.10	<0.10	83	16
8/5/2004	MW-5	530	2.2	3.7	2.2	26	<2.4	<2.7	3.2	<2.4	<33	3.8	<0.10	<0.10	82	14

Notes:

GRO = Gasoline Range Organics (C_4 - C_{12})
BTEX and Oxygenates analyzed using EPA Method 8260B
Effluent Benzene analyzed using EPA Method 410A Modified
Fixed gases analyzed using ASTM 1946-90
ppmV = Parts per million on a volume basis
-- = Not sampled/Not analyzed

DIPE = Di-Isopropyl ether
ETBE = Ethyl tert-butyl ether
MTBE = Methyl Tertiary Butyl Ether
TAME = Tertiary-amyl methylether
TBA = Tert-butyl alcohol

CO_2 = Carbon dioxide
CO = Carbon monoxide
CH_4 = Methane
N_2 = Nitrogen
O_2 = Oxygen
(%) = Percentage of air volume

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 0069
9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-1	01/31/96		133.60	24.00	0.00	109.60	7,400	290	580	480	1,500	-	-	-	-	-	-	MW-1	
	04/15/96			24.50	0.00	109.10	5,200	190	370	370	1,000	3,400	-	-	-	-	-	MW-1	
	07/22/96			24.90	0.00	108.70	12,000	320	1,000	760	2,900	4,500	-	-	-	-	-	MW-1	
	10/17/96			24.87	0.00	108.73	6,600	110	390	400	1,500	3,600	-	-	-	-	-	MW-1	
	03/25/97			25.00	0.00	108.60	5,600	56	200	390	1,000	3,000	-	-	-	-	-	MW-1	
	06/20/97			22.70	0.00	110.90	2,600	28	5.5	400	62	9,300	-	-	-	-	-	MW-1	
	08/22/97			23.69	0.00	109.91	2,900	24	<3.9	260	19	9,100	-	-	-	-	-	MW-1	
	11/17/97			24.36	0.00	109.24	7,200	42	16	290	77	15,000	-	-	-	-	-	MW-1	
	03/18/98	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/18/98			17.64	0.00	115.96	360	5.0	2.7	5.2	4.0	7,300	-	-	-	-	-	MW-1	
	08/20/98			19.55	0.00	114.05	420	10	2.6	4.1	5.7	2,900	-	-	-	-	-	MW-1	
	11/18/98	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/24/99			21.98	0.00	111.62	950	13	2.8	1.7	2.4	12,000	-	-	-	-	-	MW-1	
	06/15/99			22.14	0.00	111.46	940	12	<3.0	3.4	<6.0	5,700	-	-	-	-	-	MW-1	
	09/01/99			22.78	0.00	110.82	630	9.9	1.4	0.95	2.0	4,100	-	-	-	-	-	MW-1	
	11/30/99			23.53	0.00	110.07	850	7.0	<0.30	0.39	3.8	5,400	-	-	-	-	-	MW-1	
	03/23/00			23.98	0.00	109.62	7,200	26 J	300	830	3,100	2,200	1,600	<100	<100	<100	-	MW-1	
	04/17/00			23.81	0.00	109.79	15,000	31 J	340	840	3,200	2,200	1,500 J	<25	<28	<34	-	MW-1	
	07/11/00			23.93	0.00	109.67	7,100	16 J	160	450	1,600	1,100	1,700	<10	<11	<14	-	MW-1	
	10/11/00			24.41	0.00	109.19	16,000	21 J	210	610	2,000	1,100	970 J	<10	<11	15 J	-	MW-1	
	01/04/01			25.05	0.00	108.55	12,000	16 J	170	560	2,000	600	1,100	<10	<11	<14	-	MW-1	
	04/19/01			23.23	0.00	110.37	8,100	22 J	110	320	1,100	590	900	<20	<20	<20	-	MW-1	
	07/09/01			23.10	0.00	110.50	7,900	19 J	120	480	1,500	470	1,500	<20	<20	<20	-	MW-1	
	10/02/01			24.94	0.00	108.66	6,100	<10	64	330	980	180	1,100	<20	<20	<20	-	MW-1	
	01/03/02			26.22	0.00	107.38	6,500	<10	81	430	1,200	250	890	<20	<20	<20	-	MW-1	
	04/02/02			26.02	0.00	107.58	3,500	<10	41 J	280	780	90	560	<20	<20	<20	-	MW-1	
	08/23/02			24.69	0.00	108.91	2,400	1.5 J	25	210	530	47	170	<5.0	<5.0	0.64 J	-	MW-1	
	12/19/02			25.63	0.00	107.97	10,000	3.0 J	47	440	1,100	59	160	<10	<10	0.72 J	-	MW-1	
	02/06/03			25.92	0.00	107.68	6,700	2.9 J	36	340	790	55	130	<10	<10	<10	<300	MW-1	
	05/20/03			24.11	0.00	109.49	3,900	<0.5	11	120	300	23	72	<1.0	<1.0	<1.0	<50	MW-1	
	07/18/03			23.54	0.00	110.06	2,600	<10	13	160	400	29	57 J	<25	<25	<25	<750	MW-1	
	11/21/03			23.47	0.00	110.13	1,100	<2.0	5.3	72	170	17	27 J	<5.0	<5.0	<5.0	<150	MW-1	
	02/20/04	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Construction
	06/23/04	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/08/04	NS		24.71	0.00	108.89	-	-	-	-	-	-	-	-	-	-	-	-	
	09/09/04			-	-	-	1,500	<8.0	18	140	390	5.7 J	21 J	<20	<20	<20	<600	MW-1	
	12/14/04			24.81	0.00	108.79	770	<2.0	4.9	25	110	5.0	5.5 J	<5.0	<5.0	<5.0	<150	MW-1	
	03/02/05			20.43	0.00	113.17	2,300	<2.0	4.6	62	150	1.9 J	<50	<5.0	<5.0	<5.0	<150	MW-1	
	06/06/05			19.50	0.00	114.10	260	<2.0	<2.0	1.3 J	2.4 J	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-1	
	08/19/05			20.98	0.00	112.62	470	<2.0	1.4 J	21	41	1.2 J	<50	<5.0	<5.0	<5.0	<150	MW-1	

TABLE 7
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9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-2	01/31/96		133.36	23.30	0.00	110.06	16,000	2,200	420	1,500	2,700	-	-	-	-	-	-	MW-2	
	04/15/96			24.30	0.00	109.06	20,000	1,800	280	1,600	2,200	<10	-	-	-	-	-	MW-2	
	07/22/96			24.60	0.00	108.76	16,000	1,000	170	1,100	1,400	<10	-	-	-	-	-	MW-2	
	10/17/96			24.25	0.00	109.11	16,000	1,100	150	1,300	1,600	<10	-	-	-	-	-	MW-2	
	03/25/97			22.22	0.00	111.14	11,000	480	58	660	990	<10	-	-	-	-	-	MW-2	
	06/20/97			21.39	0.00	111.97	1,500	86	<6.0	70	48	130	-	-	-	-	-	MW-2	
	08/22/97			22.16	0.00	111.20	1,200	40	7.5	28	35	82	-	-	-	-	-	MW-2	
	11/17/97			22.88	0.00	110.48	1,300	45	<0.5	15	30	42	-	-	-	-	-	MW-2	
	03/18/98	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/18/98			19.00	0.00	114.36	360	21	<0.30	4.8	0.83	130	-	-	-	-	-	MW-2	
	08/20/98			19.33	0.00	114.03	230	8.5	<0.30	2.4	<0.60	190	-	-	-	-	-	MW-2	
	11/18/98	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/24/99			22.85	0.00	110.51	120	0.85	<0.30	<0.30	0.64	120	-	-	-	-	-	MW-2	
	06/15/99			21.96	0.00	111.40	110	1.2	<0.30	0.56	<0.60	70	-	-	-	-	-	MW-2	
	09/01/99			22.47	0.00	110.89	110	0.42	<0.30	<0.30	<0.60	45	-	-	-	-	-	MW-2	
	11/30/99			23.02	0.00	110.34	150	1.7	<0.30	<0.30	<0.60	21	-	-	-	-	-	MW-2	
	03/23/00			23.47	0.00	109.89	3,400	29	0.18 J	82	67	15	<50	<5.0	<5.0	<5.0	-	MW-2	
	04/17/00			23.19	0.00	110.17	4,700	36	0.21 J	73	77	15	5.4	<0.50	<0.57	<0.68	-	MW-2	
	07/11/00			23.36	0.00	110.00	4,500	28	0.24 J	94	56	13	<5.0	<0.50	<0.57	<0.68	-	MW-2	
	10/11/00			23.65	0.00	109.71	2,800	25	0.16 J	57	41	8.1	<5.0	<0.50	<0.57	<0.68	-	MW-2	
	01/04/01			24.49	0.00	108.87	4,200	20	0.32 J	86	51	6.8 J	<10	<1.0	<1.1	<1.4	-	MW-2	
	04/19/01			22.93	0.00	110.43	2,600	19	<1.0	59	71	16	<10	<2.0	<2.0	<2.0	-	MW-2	
	07/09/01			22.68	0.00	110.68	2,100	12	<1.0	27	31	34	<10	<2.0	<2.0	<2.0	-	MW-2	
	10/02/01			24.30	0.00	109.06	1,600	7.6	<1.0	18	18	22	<10	<2.0	<2.0	<2.0	-	MW-2	
	01/03/02			25.81	0.00	107.55	2,000	9.0	<1.0	32	26	11	<10	<2.0	<2.0	<2.0	-	MW-2	
	04/02/02			25.40	0.00	107.96	1,200	5.1	<1.0	13	7.8	5.1	<10	<2.0	<2.0	<2.0	-	MW-2	
	08/23/02			24.46	0.00	108.90	330	1.4 J	<2.0	2.4	2.4 J	1.8 J	<50	<5.0	<5.0	<5.0	-	MW-2	
	12/19/02			24.63	0.00	108.73	230	0.89 J	<2.0	0.98 J	0.65 J	0.60 J	<50	<5.0	<5.0	<5.0	-	MW-2	
	02/06/03			24.94	0.00	108.42	370	1.9 J	<2.0	1.8 J	1.1 J	1.2 J	<50	<5.0	<5.0	<5.0	<150	MW-2	
	05/20/03			23.41	0.00	109.95	96	<0.5	<0.5	<0.5	<1.5	<1.0	<25	<1.0	<1.0	<1.0	<50	MW-2	
	07/18/03			23.01	0.00	110.35	40 J	<2.0	<2.0	<2.0	<4.0	0.51 J	<50	<5.0	<5.0	<5.0	<150	MW-2	
	11/21/03			23.60	0.00	109.76	99	<2.0	<2.0	<2.0	<4.0	0.38 J	<50	<5.0	<5.0	<5.0	<150	MW-2	
	02/20/04	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Construction
	06/23/04		134.56	24.45	0.00	110.11	370	0.61 J	<2.0	1.7 J	1.5 J	0.58 J	<50	<5.0	<5.0	<5.0	<150	MW-2	
	06/23/04	DUP		-	-	-	610	0.62 J	<2.0	1.7 J	1.4 J	0.54 J	<50	<5.0	<5.0	<5.0	<150	Dup-0069-20040623	
	09/08/04	NS		24.49	0.00	110.07	-	-	-	-	-	-	-	-	-	-	-	-	
	09/09/04			-	-	-	320	1.8 J	<2.0	2.3	<4.0	0.51 J	<50	<5.0	<5.0	<5.0	<150	MW-2	
	12/14/04			24.66	0.00	109.90	570	0.86 J	<2.0	1.5 J	1.0 J	0.36 J	<50	<5.0	<5.0	<5.0	<150	MW-2	

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Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-2	12/14/04	DUP	134.56	-	-	-	570	0.72 J	<2.0	1.1 J	0.69 J	0.43 J	<50	<5.0	<5.0	<5.0	<150	DUP-0069-20041214	
	03/02/05			32.80	0.00	101.76	48 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-2	
	03/02/05	DUP		-	-	-	45 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	DUP-0069-20050302	
	06/06/05			19.64	0.00	114.92	58	<2.0	<2.0	0.28 J	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-2	
	08/19/05			20.74	0.00	113.82	69	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-2	

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Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-3	01/31/96		133.51	24.00	0.00	109.51	8,000	3,400	<30	280	<60	-	-	-	-	-	-	MW-3	
	04/15/96			24.40	0.00	109.11	5,200	2,700	<30	170	<60	2,800	-	-	-	-	-	MW-3	
	07/22/96			25.15	0.00	108.36	8,700	4,700	<30	480	91	3,000	-	-	-	-	-	MW-3	
	10/17/96			25.42	0.00	108.09	13,000	6,800	93	750	280	3,400	-	-	-	-	-	MW-3	
	03/25/97			23.20	0.00	110.31	9,800	3,700	52	530	300	1,200	-	-	-	-	-	MW-3	
	06/20/97			22.16	0.00	111.35	370	35	2.4	2.3	3.0	430	-	-	-	-	-	MW-3	
	08/22/97			23.88	0.00	109.63	360	4.7	0.74	1.1	1.9	370	-	-	-	-	-	MW-3	
	11/17/97			24.39	0.00	109.12	400	2.6	0.80	1.7	2.8	470	-	-	-	-	-	MW-3	
	03/18/98	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/18/98			18.80	0.00	114.71	440	3.2	<0.30	<0.30	1.2	1,400	-	-	-	-	-	MW-3	
	08/20/98			19.33	0.00	114.18	300	5.8	1.5	<0.30	1.4	6,200	-	-	-	-	-	MW-3	
	11/18/98	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/24/99			22.34	0.00	111.17	390	3.7	0.96	<0.30	1.1	11,000	-	-	-	-	-	MW-3	
	06/15/99			22.92	0.00	110.59	140	<0.30	0.32	<0.30	<0.60	1,700	-	-	-	-	-	MW-3	
	09/01/99			23.11	0.00	110.40	180	0.63	<0.30	0.35	0.86	<10	-	-	-	-	-	MW-3	
	11/30/99			23.78	0.00	109.73	270	<0.30	<0.30	<0.30	2.0	2,100	-	-	-	-	-	MW-3	
	03/23/00			24.16	0.00	109.35	380	35 J	<40	28 J	<80	1,100	730 J	<100	<100	<100	-	MW-3	
	04/17/00			24.04	0.00	109.47	3,300	330	<4.7	230	<41	2,200	1,500 J	<25	<28	<34	-	MW-3	
	07/11/00			24.06	0.00	109.45	5,000	680	38 J	260	63 J	2,900	2,100	<10	<11	22 J	-	MW-3	
	10/11/00			24.65	0.00	108.86	6,200	770	42 J	530	110 J	2,400	2,200	<10	<11	<14	-	MW-3	
	01/04/01			25.40	0.00	108.11	10,000	960	280 J	720	520 J	2,000	2,000	<10	<11	15 J	-	MW-3	
	04/19/01			23.61	0.00	109.90	2,900	190	<20	260	68 J	1,000	1,000	<40	<40	<40	-	MW-3	
	07/09/01			23.66	0.00	109.85	3,500	160	<10	260	39 J	1,100	1,800	<20	<20	<20	-	MW-3	
	10/02/01			25.34	0.00	108.17	4,000	160	97 J	250	180	910	1,800	<40	<40	<40	-	MW-3	
	01/03/02			26.81	0.00	106.70	6,900	320	610	480	1,100	730	1,000	<40	<40	<40	-	MW-3	
	04/02/02			26.53	0.00	106.98	4,600	300	260	460	600	640	700	<40	<40	<40	-	MW-3	
	08/23/02			25.70	0.00	107.81	2,100	130	72	180	150	170	180	<5.0	<5.0	1.8 J	-	MW-3	
	12/19/02			25.67	0.00	107.84	1,300	69	17	100	60	59	110	<5.0	<5.0	0.59 J	-	MW-3	
	02/06/03			25.92	0.00	107.59	820	72	13	78	46	54	72	<5.0	<5.0	0.66 J	<150	MW-3	
	05/20/03			24.33	0.00	109.18	85	4.3	1.4	6.2	4.3	12	28	<1.0	<1.0	<1.0	<50	MW-3	
	07/18/03			23.86	0.00	109.65	51	1.1 J	0.51 J	1.9 J	2.2 J	4.7 J	10 J	<5.0	<5.0	<5.0	<150	MW-3	
	11/21/03			24.13	0.00	109.38	120	1.6 J	0.57 J	3.1	2.7 J	4.5 J	9.4 J	<5.0	<5.0	<5.0	<150	MW-3	
	02/20/04	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Construction
	06/23/04	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/08/04	NS		25.47	0.00	108.04	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 0069
9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-3	09/09/04		133.51	-	-	-	85	0.59 J	<2.0	1.5 J	<4.0	4.0 J	6.3 J	<5.0	<5.0	<5.0	<150	MW-3	
	09/09/04	DUP		-	-	-	34 J	0.41 J	<2.0	0.89 J	<4.0	3.8 J	<50	<5.0	<5.0	<5.0	<150	DUP-0069-20040909	
	12/14/04			25.62	0.00	107.89	1,900	6.2	2.2	24	14	16	48 J	<5.0	<5.0	<5.0	<150	MW-3	
	03/02/05			21.38	0.00	112.13	26 J	<2.0	<2.0	<2.0	<4.0	3.0 J	<50	<5.0	<5.0	<5.0	<150	MW-3	
	06/06/05			20.40	0.00	113.11	<50	<2.0	<2.0	<2.0	<4.0	4.0 J	<50	<5.0	<5.0	<5.0	<150	MW-3	
	08/19/05			21.50	0.00	112.01	76	0.76 J	<2.0	1.2 J	<4.0	7.9	8.2 J	<5.0	<5.0	<5.0	<150	MW-3	

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ARCO Station No. 0069
9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-5	01/31/96	SPH	133.54	24.10	0.00	109.44	-	-	-	-	-	-	-	-	-	-	-	-	Purge sheen
	04/15/96	SPH		24.39	0.00	109.15	-	-	-	-	-	-	-	-	-	-	-	-	Purge sheen
	07/22/96	SPH		45.25	0.30	88.52	-	-	-	-	-	-	-	-	-	-	-	-	
	10/17/96	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/25/97	SPH		24.18	0.53	109.76	-	-	-	-	-	-	-	-	-	-	-	-	
	06/20/97	SPH		24.13	0.40	109.71	-	-	-	-	-	-	-	-	-	-	-	-	
	08/22/97	SPH		24.62	0.22	109.09	-	-	-	-	-	-	-	-	-	-	-	-	
	11/17/97	SPH		25.07	0.09	108.54	-	-	-	-	-	-	-	-	-	-	-	-	
	03/18/98			20.25	0.00	113.29	39,000	4,000	7,400	920	6,700	2,000	-	-	-	-	-	MW-5	
	06/18/98			20.32	0.00	113.22	69,000	12,000	20,000	2,300	14,000	9,800	-	-	-	-	-	MW-5	
	08/20/98			19.66	0.00	113.88	71,000	13,000	20,000	2,000	13,000	11,000	-	-	-	-	-	MW-5	
	11/18/98	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/24/99			22.81	0.00	110.73	73,000	11,000	16,000	2,300	13,000	13,000	-	-	-	-	-	MW-5	
	06/15/99	SPH		23.09	sheen	110.45	70,000	9,300	12,000	2,000	12,000	6,400	-	-	-	-	-	MW-5	
	09/01/99	SPH		23.53	sheen	110.01	-	-	-	-	-	-	-	-	-	-	-	-	
	11/30/99	SPH		24.13	sheen	109.41	-	-	-	-	-	-	-	-	-	-	-	-	
	03/23/00	SPH		24.77	sheen	108.77	-	-	-	-	-	-	-	-	-	-	-	-	
	04/17/00	DRY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	07/11/00	SPH		24.84	0.04	108.73	-	-	-	-	-	-	-	-	-	-	-	-	
	10/11/00	SPH		24.90	sheen	108.64	-	-	-	-	-	-	-	-	-	-	-	-	
	01/04/01	SPH		25.31	sheen	108.23	-	-	-	-	-	-	-	-	-	-	-	-	
	04/19/01	SPH		24.61	sheen	108.93	-	-	-	-	-	-	-	-	-	-	-	-	
	07/09/01	SPH		25.12	0.13	108.52	-	-	-	-	-	-	-	-	-	-	-	-	
	10/02/01	SPH		26.07	0.05	107.51	-	-	-	-	-	-	-	-	-	-	-	-	
	01/03/02	DRY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	04/02/02	DRY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08/23/02	DRY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/19/02	DRY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02/06/03	DRY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/20/03	DRY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	07/18/03			24.39	0.00	109.15	37,000	1,200	1,900	2,000	15,000	5,800	9,900	<250	<250	61 J	<7,500	MW-5	
	11/21/03			24.80	0.00	108.74	29,000	1,100	620	1,500	11,000	5,500	7,500	<250	<250	58 J	<7,500	MW-5	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 0069
9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-5	02/20/04	INA	133.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Construction
	06/23/04	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/08/04	NS		25.92	0.00	107.62	-	-	-	-	-	-	-	-	-	-	-	-	
	09/09/04			-	-	-	4,100	11 J	7.8 J	33	330	160	2,300	<50	<50	<50	<1,500	MW-5	
	12/14/04			25.93	0.00	107.61	1,100	<4.0	<4.0	5.2	34	19	1,400	<10	<10	<10	<300	MW-5	
	03/02/05	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/06/05			20.05	0.00	113.49	6,500	180	61	300	1,500	230	3,200	<50	<50	4.9 J	<1,500	MW-5	
	06/06/05	DUP		-	-	-	5,900	160	57	270	1,400	220	3,200	<50	<50	4.8 J	<1,500	DUP-0069-20050606	
	08/19/05			20.51	0.00	113.03	11,000	350	75	400	1,700	450	3,900	<50	<50	11 J	<1,500	MW-5	
	08/19/05	DUP		-	-	-	7,900	310	74	360	1,400	390	4,400	<25	<25	8.4 J	<750	DUP-0069-20050819	

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ARCO Station No. 0069
9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-6	01/31/96		134.50	23.90	0.00	110.60	1,300	<3.0	<3.0	<3.0	<6.0	-	-	-	-	-	-	MW-6	
	04/15/96			24.26	0.00	110.24	87	3.7	0.38	<0.30	<0.60	<10	-	-	-	-	-	MW-6	
	07/22/96			26.48	0.00	108.02	170	0.43	<0.30	0.67	<0.60	2,500	-	-	-	-	-	MW-6	
	10/17/96			26.96	0.00	107.54	91	<0.30	<0.30	<0.30	<0.60	2,300	-	-	-	-	-	MW-6	
	03/25/97			25.27	0.00	109.23	120	<0.30	<0.30	<0.30	<0.60	1,700	-	-	-	-	-	MW-6	
	06/20/97			24.90	0.00	109.60	<50	<0.30	<0.30	<0.30	<0.60	850	-	-	-	-	-	MW-6	
	08/22/97			25.70	0.00	108.80	<50	0.61	0.32	<0.30	<0.60	900	-	-	-	-	-	MW-6	
	11/17/97			26.25	0.00	108.25	<50	0.60	<0.5	<0.5	<1.0	1,000	-	-	-	-	-	MW-6	
	03/18/98			20.30	0.00	114.20	<50	<0.30	<0.30	<0.30	<0.60	200	-	-	-	-	-	MW-6	
	06/18/98			19.84	0.00	114.66	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-6	
	08/20/98			20.81	0.00	113.69	<50	0.33	<0.30	<0.30	<0.60	73	-	-	-	-	-	MW-6	
	11/18/98			22.14	0.00	112.36	<50	0.51	<0.30	<0.30	<0.60	110	-	-	-	-	-	MW-6	
	03/24/99			23.35	0.00	111.15	<50	<0.30	<0.30	<0.30	<0.60	190	-	-	-	-	-	MW-6	
	06/15/99			23.73	0.00	110.77	<50	<0.30	<0.30	<0.30	<0.60	210	-	-	-	-	-	MW-6	
	09/01/99			24.30	0.00	110.20	<50	<0.30	<0.30	<0.30	<0.60	360	-	-	-	-	-	MW-6	
	11/30/99			25.38	0.00	109.12	<50	0.45	<0.30	<0.30	<0.60	350	-	-	-	-	-	MW-6	
	03/23/00			26.20	0.00	108.30	27 J	<20	<20	<20	<40	840	<500	<50	<50	<50	-	MW-6	
	04/17/00			25.99	0.00	108.51	500	<1.1	<0.93	<1.8	<8.2	950	<5.0	<5.0	<5.7	<6.8	-	MW-6	
	07/11/00			25.81	0.00	108.69	250	<1.1	<0.93	<1.8	<8.2	1,100	72 J	<5.0	<5.7	<6.8	-	MW-6	
	10/11/00			26.62	0.00	107.88	390	3.6 J	<1.9	<3.6	<16	1,400	<100	<10	<11	<14	-	MW-6	
	01/04/01			27.30	0.00	107.20	480	1.2 J	1.4 J	<1.8	<8.2	1,500	<50	<5.0	<5.7	8.3 J	-	MW-6	
	04/19/01			25.10	0.00	109.40	120	<4.0	<4.0	<4.0	<4.0	240	<40	<8.0	<8.0	<8.0	-	MW-6	
	07/09/01			25.33	0.00	109.17	180	<4.0	<4.0	<4.0	<4.0	400	<40	<8.0	<8.0	<8.0	-	MW-6	
	10/02/01			26.18	0.00	108.32	190	<4.0	<4.0	<4.0	<4.0	440	<40	<8.0	<8.0	<8.0	-	MW-6	
	01/03/02			27.36	0.00	107.14	210	<10	<10	<10	<10	770	<100	<20	<20	<20	-	MW-6	
	04/02/02			27.63	0.00	106.87	1,500	<40	<40	<40	<40	3,100	<400	<80	<80	<80	-	MW-6	
	08/23/02			27.20	0.00	107.30	610	<20	1.4 J	<20	<40	4,700	1,500	<50	<50	22 J	-	MW-6	
	12/19/02			26.77	0.00	107.73	620	<20	<20	<20	<40	3,500	1,800	<50	<50	13 J	-	MW-6	
	02/06/03			26.80	0.00	107.70	1,600	<20	<20	<20	5.2 J	3,200	470 J	<50	<50	20 J	<1,500	MW-6	
	05/20/03			25.02	0.00	109.48	410	<0.5	<0.5	<0.5	<1.5	900	178 J	<1.0	<1.0	<1.0	<50	MW-6	
	07/18/03			24.30	0.00	110.20	290	<2.0	<2.0	<2.0	<4.0	1,000	200	<5.0	<5.0	4.2 J	<150	MW-6	
	11/21/03			23.84	0.00	110.66	700	<40	<40	<40	<80	2,000	1,700	<100	<100	<100	<3,000	MW-6	
	02/20/04			24.84	0.00	109.66	420	<20	<20	<20	<40	1,200	1,300	<50	<50	6.4 J	<1,500	MW-6	
	06/23/04		134.34	25.03	0.00	109.31	580	<20	<20	<20	<40	870	990	<50	<50	4.7 J	<1,500	MW-6	
	09/08/04	NS		25.42	0.00	108.92	-	-	-	-	-	-	-	-	-	-	-	-	
	09/09/04			-	-	-	90	<5.0	<5.0	<5.0	<10	220	430	<12	<12	0.98 J	<380	MW-6	
	12/14/04			25.56	0.00	108.78	300	<20	<20	<20	<40	670	1,200	<50	<50	<50	<1,500	MW-6	
	03/02/05			20.59	0.00	113.75	<50	<2.0	<2.0	<2.0	<4.0	5.1	8.9 J	<5.0	<5.0	<5.0	<150	MW-6	
	06/06/05			19.95	0.00	114.39	<50	<2.0	<2.0	<2.0	<4.0	0.37 J	<50	<5.0	<5.0	<5.0	<150	MW-6	
	08/19/05			21.22	0.00	113.12	<50	<2.0	<2.0	<2.0	<4.0	0.99 J	<50	<5.0	<5.0	<5.0	<150	MW-6	

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Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-7	07/22/96		132.43	24.60	0.00	107.83	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	10/17/96			24.90	0.00	107.53	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	03/25/97			24.10	0.00	108.33	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	06/20/97			23.10	0.00	109.33	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	08/22/97			23.93	0.00	108.50	68	<0.30	1.6	<0.30	1.8	<10	-	-	-	-	-	MW-7	
	11/17/97			24.49	0.00	107.94	63	<0.5	<0.5	<0.5	<1.0	<10	-	-	-	-	-	MW-7	
	03/18/98			19.20	0.00	113.23	150	1.7	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	06/18/98			18.30	0.00	114.13	120	1.1	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	08/20/98			19.72	0.00	112.71	110	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	11/18/98			20.25	0.00	112.18	120	1.0	0.45	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	03/24/99			22.15	0.00	110.28	61	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	06/15/99			22.46	0.00	109.97	58	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	09/01/99			22.89	0.00	109.54	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	11/30/99			23.49	0.00	108.94	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-7	
	03/23/00			23.56	0.00	108.87	19 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	MW-7	
	04/17/00			25.71	0.00	106.72	17 J	<0.11	<0.093	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	MW-7	
	07/11/00			23.20	0.00	109.23	15 J	<0.11	<0.093	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	MW-7	
	10/11/00			24.52	0.00	107.91	8.8 J	<0.11	0.20 J	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	MW-7	
	01/04/01			25.24	0.00	107.19	9.5 J	<0.11	0.13 J	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	MW-7	
	04/19/01			23.98	0.00	108.45	58 J	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-7	
	07/09/01			24.90	0.00	107.53	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-7	
	10/02/01			25.92	0.00	106.51	82 J	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-7	
	01/03/02			26.81	0.00	105.62	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-7	
	04/02/02			27.26	0.00	105.17	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-7	
	08/23/02			27.41	0.00	105.02	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	MW-7	
	12/19/02			27.50	0.00	104.93	11 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	MW-7	
	02/06/03			27.42	0.00	105.01	16 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-7	
	05/20/03			25.90	0.00	106.53	28 J	<0.5	<0.5	<0.5	<1.5	<1.0	<25	<1.0	<1.0	<1.0	<50	MW-7	
	07/18/03			25.22	0.00	107.21	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-7	
	11/21/03			25.46	0.00	106.97	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-7	
	02/20/04			26.25	0.00	106.18	27 J	<2.0	0.42 J	<2.0	<4.0	<5.0	7.8 J	<5.0	<5.0	<5.0	<150	MW-7	
	06/23/04		132.55	26.11	0.00	106.44	<50	<2.0	<2.0	0.29 J	1.4 J	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-7	
	09/08/04	NS		25.64	0.00	106.91	-	-	-	-	-	-	-	-	-	-	-	-	
	09/09/04			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	3.9 J	<50	<5.0	<5.0	<5.0	<150	MW-7	
	12/14/04			26.26	0.00	106.29	<50	<2.0	<2.0	<2.0	<4.0	8.8	<50	<5.0	<5.0	<5.0	<150	MW-7	
	03/02/05			20.92	0.00	111.63	<50	<2.0	<2.0	<2.0	<4.0	21	<50	<5.0	<5.0	<5.0	<150	MW-7	
	06/06/05			19.36	0.00	113.19	<50	<2.0	<2.0	<2.0	<4.0	8.4	<50	<5.0	<5.0	<5.0	<150	MW-7	
	08/19/05			20.25	0.00	112.30	<50	<2.0	<2.0	<2.0	<4.0	6.5	<50	<5.0	<5.0	<5.0	<150	MW-7	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 0069
9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
MW-8	07/22/96		134.65	24.40	0.00	110.25	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	10/17/96			23.78	0.00	110.87	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	03/25/97			23.60	0.00	111.05	<50	0.54	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	06/20/97			22.86	0.00	111.79	67	1.4	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	08/22/97			23.77	0.00	110.88	<50	<0.30	1.2	0.30	2.1	<10	-	-	-	-	-	MW-8	
	11/17/97			24.39	0.00	110.26	<50	<0.5	<0.5	<0.5	<1.0	<10	-	-	-	-	-	MW-8	
	03/18/98			19.58	0.00	115.07	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	06/18/98			19.48	0.00	115.17	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	08/20/98			20.03	0.00	114.62	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	11/18/98			21.55	0.00	113.10	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	03/24/99			22.25	0.00	112.40	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	06/15/99			22.13	0.00	112.52	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	09/01/99			22.78	0.00	111.87	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	11/30/99			23.20	0.00	111.45	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	MW-8	
	03/23/00			23.68	0.00	110.97	<50	<2.0	<2.0	<2.0	<4.0	2.0 J	<50	<5.0	<5.0	<5.0	-	MW-8	
	04/17/00			23.25	0.00	111.40	10 J	<0.11	<0.093	<0.18	<0.82	2.2 J	<5.0	<0.50	<0.57	<0.68	-	MW-8	
	07/11/00			23.62	0.00	111.03	<7.0	<0.11	<0.093	<0.18	<0.82	1.9 J	<5.0	<0.50	<0.57	<0.68	-	MW-8	
	10/11/00			23.81	0.00	110.84	6.9 J	<0.11	<0.093	<0.18	<0.82	1.1 J	<5.0	<0.50	<0.57	<0.68	-	MW-8	
	01/04/01			24.81	0.00	109.84	8.8 J	0.11 J	0.23 J	<0.18	<0.82	1.2 J	<5.0	<0.50	<0.57	<0.68	-	MW-8	
	04/19/01			23.30	0.00	111.35	<50	<1.0	<1.0	<1.0	1.5	<2.0	<10	<2.0	<2.0	<2.0	-	MW-8	
	07/09/01			22.71	0.00	111.94	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-8	
	10/02/01			22.81	0.00	111.84	78 J	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-8	
	01/30/02			24.83	0.00	109.82	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-8	
	04/02/02			23.51	0.00	111.14	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	MW-8	
	08/23/02			22.95	0.00	111.70	12 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	MW-8	
	12/19/02			22.75	0.00	111.90	8.9 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	MW-8	
	02/06/03			23.74	0.00	110.91	12 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-8	
	05/20/03			21.84	0.00	112.81	27 J	<0.5	<0.5	<0.5	<1.5	<1.0	<25	<1.0	<1.0	<1.0	<50	MW-8	
	07/18/03			21.58	0.00	113.07	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-8	
	11/21/03			21.90	0.00	112.75	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-8	
	02/20/04			22.98	0.00	111.67	24 J	<2.0	0.54 J	<2.0	0.56 J	<5.0	8.2 J	<5.0	<5.0	<5.0	<150	MW-8	
	06/23/04		134.75	23.31	0.00	111.44	22 J	<2.0	<2.0	1.8 J	0.80 J	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-8	
	09/08/04	NS		23.34	0.00	111.41	-	-	-	-	-	-	-	-	-	-	-	-	
	09/09/04			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-8	
	12/14/04			23.42	0.00	111.33	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-8	
	03/02/05			19.23	0.00	115.52	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-8	
	06/06/05			19.20	0.00	115.55	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	MW-8	
	08/19/05	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 0069
9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
Trip Blank	03/18/98		-	-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	TB	
	06/18/98			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	08/20/98			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	11/18/98			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	03/24/99			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	06/15/99			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	09/01/99			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	11/30/99			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	Trip Blank	
	03/23/00			-	-	-	11	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	Trip Blank	
	04/17/00			-	-	-	<9.3	<0.11	<0.093	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	Trip Blank	
	07/11/00			-	-	-	<7.0	<0.11	<0.093	<0.18	<0.82	<0.28	7.0	<0.50	<0.57	<0.68	-	Trip Blank	
	10/11/00			-	-	-	12	<0.11	<0.093	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	Trip Blank	
	01/04/01			-	-	-	40	<0.11	0.14	<0.18	<0.82	<0.28	<5.0	<0.50	<0.57	<0.68	-	Trip Blank	
	04/19/01			-	-	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	Trip Blank	
	07/09/01			-	-	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	Trip Blank	
	10/02/01			-	-	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	Trip Blank	

TABLE 7
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 0069
9922 South Figueroa Street, Los Angeles, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Sample ID	Comments
Trip Blank	01/03/02		-	-	-	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	Trip Blank	
	04/02/02			-	-	-	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<2.0	-	Trip Blank	
	08/23/02			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	Trip Blank	
	12/19/02			-	-	-	12 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	Trip Blank	
	02/06/03			-	-	-	11 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	Trip Blank	
	05/20/03			-	-	-	7.5 J	<0.5	<0.5	<0.5	<1.5	<5.0	<50	<1.0	<1.0	<1.0	<50	Trip Blank	
	07/18/03			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	Trip Blank	
	11/21/03			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	Trip Blank	
	02/20/04			-	-	-	<50	<2.0	0.45 J	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	Trip Blank	
	06/23/04			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-0069-20040623	
	09/09/04			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-0069-20040909	
	12/14/04			-	-	-	32 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-0069-20041214	
	03/02/05			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-0069-20050302	
	06/06/05			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-0069-20050606	
	08/19/05			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	TB-0069-20050819	

Notes:

GRO = Gasoline range organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total xylenes
MTBE = Methyl tert-butyl ether
TBA = Tert-butyl alcohol
DIPE = Di-isopropyl ether
ETBE = Ethyl tert-butyl ether
TAME = Tert-amyl methyl ether
SPH = Separate phase hydrocarbons
TOC = Top of casing (surveyed)
Calc. GW Elev. = Calculated groundwater elevation = TOC - Depth to Water + 0.75*(Measured SPH Thickness); assuming a specific gravity of 0.75 for SPH
ft-MSL = feet above mean sea level
µg/L = Micrograms per liter
< = Analyte was not detected above the specified method reporting limit
- = Not measured or analyzed
J = Estimated value (less than the method reporting limit and greater than or equal to the method detection limit)
Refer to the reports in which data was first presented for more information on historical data.

GRO analyzed by EPA Method 8015 Modified. The carbon chain range used for analysis since 2000 Quarter 1 is C4-C12.
BTEX and oxygenates analyzed by EPA Method 8260B since 2000 Quarter 1.
DRY = Well dry during gauging or purging; not sampled
DUP = Duplicate sample
INA = Well inaccessible; not sampled
NS = Well not sampled
Purge sheen = Sheen was observed during purging of the scheduled sampling; well not sampled
SPH = Well not sampled due to the presence of separate phase hydrocarbons (SPH)

TABLE 8
SUMMARY OF ENHANCED FLUID RECOVERY (EFR) DATA (Discontinued)
ATLANTIC RICHFIELD COMPANY STATION NO. 0069
9922 SOUTH FIGUEROA STREET
LOS ANGELES, CALIFORNIA

Date	Well ID	Volume of Groundwater Removed (gallons)	Volume of LPH Removed (gallons)	Depth to Groundwater (feet)	Depth to Product (feet)	Thickness of Product (feet)	COMMENTS
10/04/04	MW-1	30.00	0.00	24.86	--	--	
11/05/04		32.00	0.00	26.46	--	--	
12/10/04		50.00	0.00	24.24	--	--	
07/08/04	MW-2	80.00	0.00	24.31	--	--	
08/16/04		27.00	0.00	24.87	--	--	
09/15/04		51.00	0.00	24.52	--	--	
02/28/03	MW-5	0.00	0.00	--	--	--	Dry
03/20/03		10.00	0.00	23.80	--	--	
04/08/03		0.00	0.00	--	--	--	Dry
05/12/03		0.00	0.00	--	--	--	Dry
06/20/03		2.00	0.00	--	--	--	
07/11/03		1.00	0.00	24.46	--	--	
08/15/03		5.00	0.00	24.25	--	--	
09/12/03		0.00	0.00	23.75	--	--	
10/10/03		4.00	0.00	24.35	--	--	
11/19/03		46.00	0.00	30.51	--	--	
12/18/03		60.00	0.00	24.09	--	--	
01/07/04		12.00	0.00	24.42	--	--	
01/21/04		14.00	0.00	24.59	--	--	
02/04/04		--	--	--	--	--	
02/28/03	MW-6	8.00	0.00	27.47	--	--	
03/20/03		40.00	0.00	25.92	--	--	
04/08/03		19.00	0.00	25.72	--	--	
05/12/03		21.00	0.00	32.03	--	--	
06/20/03		24.00	0.00	32.00	--	--	
07/11/03		25.00	0.00	24.37	--	--	
08/15/03		50.00	0.00	24.11	--	--	
09/12/03		0.00	0.00	24.26	--	--	
10/10/03		40.00	0.00	23.63	--	--	
11/19/00		31.00	0.00	23.91	--	--	
12/18/03		65.00	0.00	25.27	--	--	
01/07/04		65.00	0.00	25.57	--	--	
01/21/04		75.00	0.00	25.78	--	--	
02/04/04		40.00	0.00	29.96	--	--	
05/06/04		26.00	0.00	24.72	--	--	
06/10/04		28.00	0.00	25.01	--	--	
10/04/04		24.00	0.00	24.28	--	--	
11/05/04		27.00	0.00	27.56	--	--	
12/10/04		75.00	0.00	25.54	--	--	
03/03/04	MW-7	26.25	0.00	25.00	--	--	
04/08/04		40.00	0.00	25.07	--	--	
05/06/04		25.00	0.00	26.84	--	--	
07/08/04		120.00	0.00	25.78	--	--	
08/16/04		70.00	0.00	25.73	--	--	
09/15/04		116.00	0.00	25.74	--	--	
Total gallons recovered:		**1504.25**	**0.00**				

Notes:
* 1 gallon = 128 ounces
* Liquid phase hydrocarbon (LPH) recovered via overpurging.
* Approximately 2.21 gallons of LPH has been recovered prior to February 28, 2003.

Appendix A
Laboratory Report and Chain of Custody

Del Mar Analytical

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LABORATORY REPORT

Prepared For: SECOR International, Inc.-Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361
Attention: Don Indermill

Project: ARCO 0069, Los Angeles

Sampled: 08/19/05
Received: 08/22/05
Revised: 09/07/05 14:27

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Del Mar Analytical Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

There is no MS/MSD reported with batch 5J30036 for the 8015B-GRO(C4-C12) analysis. The MS/MSD was accidentally spiked with a standard containing MTBE, which provides unreliable recoveries on the FID, and therefore cannot be used when reporting C4-C12.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
IOH1797-01	MW-1	Water
IOH1797-02	MW-2	Water
IOH1797-03	MW-3	Water
IOH1797-04	MW-5	Water
IOH1797-05	MW-6	Water
IOH1797-06	MW-7	Water
IOH1797-07	DUP-0069-20050819	Water

Del Mar Analytical, Irvine
Lisa Reightley
Project Manager

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Project ID: ARCO 0069, Los Angeles

Report Number: IOH1797

Sampled: 08/19/05
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LABORATORY ID	CLIENT ID	MATRIX
IOH1797-08	TB-0069-20050819	Water

Reviewed By:

Del Mar Analytical, Irvine
Lisa Reightley
Project Manager

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Report Number: IOH1797

Sampled: 08/19/05
Received: 08/22/05

VOLATILE FUEL HYDROCARBONS (EPA 5030/8015M)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOH1797-01 (MW-1 - Water)									
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	5H29037	24	50	**470**	1	08/29/05	08/29/05	
Surrogate: 4-BFB (FID) (65-140%)					*82 %*				
Sample ID: IOH1797-02 (MW-2 - Water)									
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	5H29037	24	50	**69**	1	08/29/05	08/29/05	
Surrogate: 4-BFB (FID) (65-140%)					*100 %*				
Sample ID: IOH1797-03 (MW-3 - Water)									
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	5H29037	24	50	**76**	1	08/29/05	08/29/05	
Surrogate: 4-BFB (FID) (65-140%)					*109 %*				
Sample ID: IOH1797-04 (MW-5 - Water)									
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	5H29037	4800	10000	**11000**	200	08/29/05	08/29/05	
Surrogate: 4-BFB (FID) (65-140%)					*99 %*				
Sample ID: IOH1797-05 (MW-6 - Water)									
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	5H29037	24	50	ND	1	08/29/05	08/29/05	
Surrogate: 4-BFB (FID) (65-140%)					*96 %*				
Sample ID: IOH1797-06 (MW-7 - Water)									
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	5H30040	24	50	ND	1	08/30/05	08/30/05	
Surrogate: 4-BFB (FID) (65-140%)					*85 %*				
Sample ID: IOH1797-07 (DUP-0069-20050819 - Water)									
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	5H30036	120	250	**7900**	5	08/30/05	08/30/05	
Surrogate: 4-BFB (FID) (65-140%)					*144 %*				*AZ*
Sample ID: IOH1797-08 (TB-0069-20050819 - Water)									
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015B	5H30036	24	50	ND	1	08/30/05	08/30/05	
Surrogate: 4-BFB (FID) (65-140%)					*103 %*				

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Report Number: IOH1797

Sampled: 08/19/05
Received: 08/22/05

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOH1797-01 (MW-1 - Water)									
Reporting Units: ug/l									
Benzene	EPA 8260B	5H30005	0.28	2.0	ND	1	08/30/05	08/30/05	
Ethylbenzene	EPA 8260B	5H30005	0.25	2.0	**21**	1	08/30/05	08/30/05	
Toluene	EPA 8260B	5H30005	0.36	2.0	**1.4**	1	08/30/05	08/30/05	J,DX
m,p-Xylenes	EPA 8260B	5H30005	0.52	2.0	**34**	1	08/30/05	08/30/05	
o-Xylene	EPA 8260B	5H30005	0.24	2.0	**7.0**	1	08/30/05	08/30/05	
Xylenes, Total	EPA 8260B	5H30005	0.52	4.0	**41**	1	08/30/05	08/30/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5H30005	0.25	5.0	ND	1	08/30/05	08/30/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5H30005	0.28	5.0	ND	1	08/30/05	08/30/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5H30005	0.33	5.0	ND	1	08/30/05	08/30/05	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5H30005	0.32	5.0	**1.2**	1	08/30/05	08/30/05	J,DX
tert-Butanol (TBA)	EPA 8260B	5H30005	3.1	50	ND	1	08/30/05	08/30/05	
Ethanol	EPA 8260B	5H30005	100	150	ND	1	08/30/05	08/30/05	
Surrogate: Dibromofluoromethane (80-120%)					*103 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*98 %*				
Sample ID: IOH1797-02 (MW-2 - Water)									
Reporting Units: ug/l									
Benzene	EPA 8260B	5H29015	0.28	2.0	ND	1	08/29/05	08/29/05	
Ethylbenzene	EPA 8260B	5H29015	0.25	2.0	ND	1	08/29/05	08/29/05	
Toluene	EPA 8260B	5H29015	0.36	2.0	ND	1	08/29/05	08/29/05	
m,p-Xylenes	EPA 8260B	5H29015	0.52	2.0	ND	1	08/29/05	08/29/05	
o-Xylene	EPA 8260B	5H29015	0.24	2.0	ND	1	08/29/05	08/29/05	
Xylenes, Total	EPA 8260B	5H29015	0.52	4.0	ND	1	08/29/05	08/29/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5H29015	0.25	5.0	ND	1	08/29/05	08/29/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5H29015	0.28	5.0	ND	1	08/29/05	08/29/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5H29015	0.33	5.0	ND	1	08/29/05	08/29/05	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5H29015	0.32	5.0	ND	1	08/29/05	08/29/05	
tert-Butanol (TBA)	EPA 8260B	5H29015	3.1	50	ND	1	08/29/05	08/29/05	
Ethanol	EPA 8260B	5H29015	100	150	ND	1	08/29/05	08/29/05	
Surrogate: Dibromofluoromethane (80-120%)					*104 %*				
Surrogate: Toluene-d8 (80-120%)					*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*99 %*				

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Attention: Don Indermill

Project ID: ARCO 0069, Los Angeles

Report Number: IOH1797

Sampled: 08/19/05
Received: 08/22/05

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOH1797-03 (MW-3 - Water)									
Reporting Units: ug/l									
Benzene	EPA 8260B	5H29015	0.28	2.0	**0.76**	1	08/29/05	08/30/05	J,DX
Ethylbenzene	EPA 8260B	5H29015	0.25	2.0	**1.2**	1	08/29/05	08/30/05	J,DX
Toluene	EPA 8260B	5H29015	0.36	2.0	ND	1	08/29/05	08/30/05	
m,p-Xylenes	EPA 8260B	5H29015	0.52	2.0	ND	1	08/29/05	08/30/05	
o-Xylene	EPA 8260B	5H29015	0.24	2.0	ND	1	08/29/05	08/30/05	
Xylenes, Total	EPA 8260B	5H29015	0.52	4.0	ND	1	08/29/05	08/30/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5H29015	0.25	5.0	ND	1	08/29/05	08/30/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5H29015	0.28	5.0	ND	1	08/29/05	08/30/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5H29015	0.33	5.0	ND	1	08/29/05	08/30/05	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5H29015	0.32	5.0	**7.9**	1	08/29/05	08/30/05	
tert-Butanol (TBA)	EPA 8260B	5H29015	3.1	50	**8.2**	1	08/29/05	08/30/05	J,DX, ID
Ethanol	EPA 8260B	5H29015	100	150	ND	1	08/29/05	08/30/05	
Surrogate: Dibromofluoromethane (80-120%)					*113 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Sample ID: IOH1797-04 (MW-5 - Water)									
Reporting Units: ug/l									
Benzene	EPA 8260B	5H29015	2.8	20	**350**	10	08/29/05	08/30/05	
Ethylbenzene	EPA 8260B	5H29015	2.5	20	**400**	10	08/29/05	08/30/05	
Toluene	EPA 8260B	5H29015	3.6	20	**75**	10	08/29/05	08/30/05	
m,p-Xylenes	EPA 8260B	5H29015	5.2	20	**1100**	10	08/29/05	08/30/05	
o-Xylene	EPA 8260B	5H29015	2.4	20	**570**	10	08/29/05	08/30/05	
Xylenes, Total	EPA 8260B	5H29015	5.2	40	**1700**	10	08/29/05	08/30/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5H29015	2.5	50	ND	10	08/29/05	08/30/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5H29015	2.8	50	ND	10	08/29/05	08/30/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5H29015	3.3	50	**11**	10	08/29/05	08/30/05	J,DX
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5H29015	3.2	50	**450**	10	08/29/05	08/30/05	
tert-Butanol (TBA)	EPA 8260B	5H29015	31	500	**3900**	10	08/29/05	08/30/05	
Ethanol	EPA 8260B	5H29015	1000	1500	ND	10	08/29/05	08/30/05	
Surrogate: Dibromofluoromethane (80-120%)					*105 %*				
Surrogate: Toluene-d8 (80-120%)					*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*95 %*				

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Received: 08/22/05

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOH1797-05 (MW-6 - Water)									
Reporting Units: ug/l									
Benzene	EPA 8260B	5H30015	0.28	2.0	ND	1	08/30/05	08/30/05	
Ethylbenzene	EPA 8260B	5H30015	0.25	2.0	ND	1	08/30/05	08/30/05	
Toluene	EPA 8260B	5H30015	0.36	2.0	ND	1	08/30/05	08/30/05	
m,p-Xylenes	EPA 8260B	5H30015	0.52	2.0	ND	1	08/30/05	08/30/05	
o-Xylene	EPA 8260B	5H30015	0.24	2.0	ND	1	08/30/05	08/30/05	
Xylenes, Total	EPA 8260B	5H30015	0.52	4.0	ND	1	08/30/05	08/30/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5H30015	0.25	5.0	ND	1	08/30/05	08/30/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5H30015	0.28	5.0	ND	1	08/30/05	08/30/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5H30015	0.33	5.0	ND	1	08/30/05	08/30/05	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5H30015	0.32	5.0	**0.99**	1	08/30/05	08/30/05	J,DX
tert-Butanol (TBA)	EPA 8260B	5H30015	3.1	50	ND	1	08/30/05	08/30/05	
Ethanol	EPA 8260B	5H30015	100	150	ND	1	08/30/05	08/30/05	IO
Surrogate: Dibromofluoromethane (80-120%)					*109 %*				
Surrogate: Toluene-d8 (80-120%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*100 %*				
Sample ID: IOH1797-06 (MW-7 - Water)									
Reporting Units: ug/l									
Benzene	EPA 8260B	5H30015	0.28	2.0	ND	1	08/30/05	08/30/05	
Ethylbenzene	EPA 8260B	5H30015	0.25	2.0	ND	1	08/30/05	08/30/05	
Toluene	EPA 8260B	5H30015	0.36	2.0	ND	1	08/30/05	08/30/05	
m,p-Xylenes	EPA 8260B	5H30015	0.52	2.0	ND	1	08/30/05	08/30/05	
o-Xylene	EPA 8260B	5H30015	0.24	2.0	ND	1	08/30/05	08/30/05	
Xylenes, Total	EPA 8260B	5H30015	0.52	4.0	ND	1	08/30/05	08/30/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5H30015	0.25	5.0	ND	1	08/30/05	08/30/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5H30015	0.28	5.0	ND	1	08/30/05	08/30/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5H30015	0.33	5.0	ND	1	08/30/05	08/30/05	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5H30015	0.32	5.0	**6.5**	1	08/30/05	08/30/05	
tert-Butanol (TBA)	EPA 8260B	5H30015	3.1	50	ND	1	08/30/05	08/30/05	
Ethanol	EPA 8260B	5H30015	100	150	ND	1	08/30/05	08/30/05	IO
Surrogate: Dibromofluoromethane (80-120%)					*117 %*				
Surrogate: Toluene-d8 (80-120%)					*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*97 %*				

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BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOH1797-07 (DUP-0069-20050819 - Water)									
Reporting Units: ug/l									
Benzene	EPA 8260B	5H31007	1.4	10	**310**	5	08/31/05	08/31/05	
Ethylbenzene	EPA 8260B	5H31007	1.2	10	**360**	5	08/31/05	08/31/05	
Toluene	EPA 8260B	5H31007	1.8	10	**74**	5	08/31/05	08/31/05	
m,p-Xylenes	EPA 8260B	5H31007	2.6	10	**900**	5	08/31/05	08/31/05	
o-Xylene	EPA 8260B	5H31007	1.2	10	**500**	5	08/31/05	08/31/05	
Xylenes, Total	EPA 8260B	5H31007	2.6	20	**1400**	5	08/31/05	08/31/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5H31007	1.2	25	ND	5	08/31/05	08/31/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5H31007	1.4	25	ND	5	08/31/05	08/31/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5H31007	1.6	25	**8.4**	5	08/31/05	08/31/05	J,DX
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5H31007	1.6	25	**390**	5	08/31/05	08/31/05	
tert-Butanol (TBA)	EPA 8260B	5H31007	16	250	**4400**	5	08/31/05	08/31/05	
Ethanol	EPA 8260B	5H31007	500	750	ND	5	08/31/05	08/31/05	
Surrogate: Dibromofluoromethane (80-120%)					*95 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*98 %*				
Sample ID: IOH1797-08 (TB-0069-20050819 - Water)									
Reporting Units: ug/l									
Benzene	EPA 8260B	5H30015	0.28	2.0	ND	1	08/30/05	08/30/05	
Ethylbenzene	EPA 8260B	5H30015	0.25	2.0	ND	1	08/30/05	08/30/05	
Toluene	EPA 8260B	5H30015	0.36	2.0	ND	1	08/30/05	08/30/05	
m,p-Xylenes	EPA 8260B	5H30015	0.52	2.0	ND	1	08/30/05	08/30/05	
o-Xylene	EPA 8260B	5H30015	0.24	2.0	ND	1	08/30/05	08/30/05	
Xylenes, Total	EPA 8260B	5H30015	0.52	4.0	ND	1	08/30/05	08/30/05	
Di-isopropyl Ether (DIPE)	EPA 8260B	5H30015	0.25	5.0	ND	1	08/30/05	08/30/05	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5H30015	0.28	5.0	ND	1	08/30/05	08/30/05	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5H30015	0.33	5.0	ND	1	08/30/05	08/30/05	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5H30015	0.32	5.0	ND	1	08/30/05	08/30/05	
tert-Butanol (TBA)	EPA 8260B	5H30015	3.1	50	ND	1	08/30/05	08/30/05	
Ethanol	EPA 8260B	5H30015	100	150	ND	1	08/30/05	08/30/05	IO
Surrogate: Dibromofluoromethane (80-120%)					*102 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*99 %*				

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Attention: Don Indermill

Project ID: ARCO 0069, Los Angeles

Report Number: IOH1797

Sampled: 08/19/05
Received: 08/22/05

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS (EPA 5030/8015M)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5H29037 Extracted: 08/29/05											
Blank Analyzed: 08/29/2005 (5H29037-BLK1)											
GRO (C4 - C12)	ND	50	24	ug/l							
Surrogate: 4-BFB (FID)	*9.26*			*ug/l*	*10.0*		*93*	*65-140*			
LCS Analyzed: 08/29/2005 (5H29037-BS1)											
GRO (C4 - C12)	797	50	24	ug/l	800		100	65-140			
Surrogate: 4-BFB (FID)	*31.5*			*ug/l*	*30.0*		*105*	*65-140*			
Matrix Spike Analyzed: 08/29/2005 (5H29037-MS1)						**Source: IOH1788-03**					
GRO (C4 - C12)	223	50	24	ug/l	220	ND	101	60-145			
Surrogate: 4-BFB (FID)	*9.50*			*ug/l*	*10.0*		*95*	*65-140*			
Matrix Spike Dup Analyzed: 08/29/2005 (5H29037-MSD1)						**Source: IOH1788-03**					
GRO (C4 - C12)	229	50	24	ug/l	220	ND	104	60-145	3	20	
Surrogate: 4-BFB (FID)	*10.2*			*ug/l*	*10.0*		*102*	*65-140*			
Batch: 5H30036 Extracted: 08/30/05											
Blank Analyzed: 08/30/2005 (5H30036-BLK1)											
GRO (C4 - C12)	ND	50	24	ug/l							
Surrogate: 4-BFB (FID)	*10.7*			*ug/l*	*10.0*		*107*	*65-140*			
LCS Analyzed: 08/30/2005 (5H30036-BS1)											
GRO (C4 - C12)	798	50	24	ug/l	800		100	65-140			
Surrogate: 4-BFB (FID)	*31.0*			*ug/l*	*30.0*		*103*	*65-140*			
Batch: 5H30040 Extracted: 08/30/05											
Blank Analyzed: 08/30/2005 (5H30040-BLK1)											
GRO (C4 - C12)	ND	50	24	ug/l							
Surrogate: 4-BFB (FID)	*10.1*			*ug/l*	*10.0*		*101*	*65-140*			

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METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS (EPA 5030/8015M)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5H30040 Extracted: 08/30/05											
LCS Analyzed: 08/30/2005 (5H30040-BS1)											
GRO (C4 - C12)	799	50	24	ug/l	800		100	65-140			
Surrogate: 4-BFB (FID)	*35.9*			*ug/l*	*30.0*		*120*	*65-140*			
Matrix Spike Analyzed: 08/30/2005 (5H30040-MS1)						**Source: IOH1860-04**					
GRO (C4 - C12)	217	50	24	ug/l	220	ND	99	60-145			
Surrogate: 4-BFB (FID)	*10.5*			*ug/l*	*10.0*		*105*	*65-140*			
Matrix Spike Dup Analyzed: 08/30/2005 (5H30040-MSD1)						**Source: IOH1860-04**					
GRO (C4 - C12)	246	50	24	ug/l	220	ND	112	60-145	13	20	
Surrogate: 4-BFB (FID)	*11.6*			*ug/l*	*10.0*		*116*	*65-140*			

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METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5H29015 Extracted: 08/29/05											
Blank Analyzed: 08/29/2005 (5H29015-BLK1)											
Benzene	ND	2.0	0.28	ug/l							
Ethylbenzene	ND	2.0	0.25	ug/l							
Toluene	ND	2.0	0.36	ug/l							
m,p-Xylenes	ND	2.0	0.52	ug/l							
o-Xylene	ND	2.0	0.24	ug/l							
Xylenes, Total	ND	4.0	0.52	ug/l							
Di-isopropyl Ether (DIPE)	ND	5.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	0.28	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	5.0	0.33	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	5.0	0.32	ug/l							
tert-Butanol (TBA)	ND	50	3.1	ug/l							
Ethanol	ND	150	100	ug/l							
Surrogate: Dibromofluoromethane	*25.9*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*26.9*			*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.7*			*ug/l*	*25.0*		*99*	*80-120*			
LCS Analyzed: 08/29/2005 (5H29015-BS1)											
Benzene	23.5	2.0	0.28	ug/l	25.0		94	65-120			
Ethylbenzene	26.3	2.0	0.25	ug/l	25.0		105	70-125			
Toluene	24.2	2.0	0.36	ug/l	25.0		97	70-125			
m,p-Xylenes	53.0	2.0	0.52	ug/l	50.0		106	70-125			
o-Xylene	26.2	2.0	0.24	ug/l	25.0		105	70-125			
Xylenes, Total	79.2	4.0	0.52	ug/l	75.0		106	70-125			
Di-isopropyl Ether (DIPE)	24.5	5.0	0.25	ug/l	25.0		98	60-135			
Ethyl tert-Butyl Ether (ETBE)	24.8	5.0	0.28	ug/l	25.0		99	60-135			
tert-Amyl Methyl Ether (TAME)	26.7	5.0	0.33	ug/l	25.0		107	60-135			
Methyl-tert-butyl Ether (MTBE)	23.4	5.0	0.32	ug/l	25.0		94	55-140			
tert-Butanol (TBA)	114	50	3.1	ug/l	125		91	65-135			
Ethanol	193	150	100	ug/l	250		77	35-160			
Surrogate: Dibromofluoromethane	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*25.8*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.3*			*ug/l*	*25.0*		*101*	*80-120*			

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Project ID: ARCO 0069, Los Angeles

Report Number: IOH1797

Sampled: 08/19/05
Received: 08/22/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5H29015 Extracted: 08/29/05											
Matrix Spike Analyzed: 08/29/2005 (5H29015-MS1)					**Source: IOH1797-02**						
Benzene	22.9	2.0	0.28	ug/l	25.0	ND	92	60-125			
Ethylbenzene	25.4	2.0	0.25	ug/l	25.0	ND	102	65-130			
Toluene	24.3	2.0	0.36	ug/l	25.0	ND	97	65-125			
m,p-Xylenes	51.2	2.0	0.52	ug/l	50.0	ND	102	60-130			
o-Xylene	25.2	2.0	0.24	ug/l	25.0	ND	101	60-125			
Xylenes, Total	76.4	4.0	0.52	ug/l	75.0	ND	102	60-130			
Di-isopropyl Ether (DIPE)	24.2	5.0	0.25	ug/l	25.0	ND	97	60-140			
Ethyl tert-Butyl Ether (ETBE)	25.4	5.0	0.28	ug/l	25.0	ND	102	55-135			
tert-Amyl Methyl Ether (TAME)	26.6	5.0	0.33	ug/l	25.0	ND	106	55-140			
Methyl-tert-butyl Ether (MTBE)	23.9	5.0	0.32	ug/l	25.0	ND	96	50-150			
tert-Butanol (TBA)	121	50	3.1	ug/l	125	ND	97	60-145			
Ethanol	250	150	100	ug/l	250	ND	100	35-160			
Surrogate: Dibromofluoromethane	*25.1*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*25.9*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.5*			*ug/l*	*25.0*		*98*	*80-120*			
Matrix Spike Dup Analyzed: 08/29/2005 (5H29015-MSD1)					**Source: IOH1797-02**						
Benzene	21.5	2.0	0.28	ug/l	25.0	ND	86	60-125	6	20	
Ethylbenzene	23.5	2.0	0.25	ug/l	25.0	ND	94	65-130	8	20	
Toluene	22.9	2.0	0.36	ug/l	25.0	ND	92	65-125	6	20	
m,p-Xylenes	49.0	2.0	0.52	ug/l	50.0	ND	98	60-130	4	25	
o-Xylene	24.4	2.0	0.24	ug/l	25.0	ND	98	60-125	3	20	
Xylenes, Total	73.4	4.0	0.52	ug/l	75.0	ND	98	60-130	4	20	
Di-isopropyl Ether (DIPE)	22.4	5.0	0.25	ug/l	25.0	ND	90	60-140	8	25	
Ethyl tert-Butyl Ether (ETBE)	23.9	5.0	0.28	ug/l	25.0	ND	96	55-135	6	25	
tert-Amyl Methyl Ether (TAME)	25.0	5.0	0.33	ug/l	25.0	ND	100	55-140	6	30	
Methyl-tert-butyl Ether (MTBE)	22.2	5.0	0.32	ug/l	25.0	ND	89	50-150	7	25	
tert-Butanol (TBA)	115	50	3.1	ug/l	125	ND	92	60-145	5	25	
Ethanol	229	150	100	ug/l	250	ND	92	35-160	9	30	
Surrogate: Dibromofluoromethane	*24.5*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*			*ug/l*	*25.0*		*96*	*80-120*			

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METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5H30005 Extracted: 08/30/05											
Blank Analyzed: 08/30/2005 (5H30005-BLK1)											
Benzene	ND	2.0	0.28	ug/l							
Ethylbenzene	ND	2.0	0.25	ug/l							
Toluene	ND	2.0	0.36	ug/l							
m,p-Xylenes	ND	2.0	0.52	ug/l							
o-Xylene	ND	2.0	0.24	ug/l							
Xylenes, Total	ND	4.0	0.52	ug/l							
Di-isopropyl Ether (DIPE)	ND	5.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	0.28	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	5.0	0.33	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	5.0	0.32	ug/l							
tert-Butanol (TBA)	ND	50	3.1	ug/l							
Ethanol	ND	150	100	ug/l							
Surrogate: Dibromofluoromethane	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			
LCS Analyzed: 08/30/2005 (5H30005-BS1)											
Benzene	25.3	2.0	0.28	ug/l	25.0		101	65-120			
Ethylbenzene	26.1	2.0	0.25	ug/l	25.0		104	70-125			
Toluene	25.2	2.0	0.36	ug/l	25.0		101	70-125			
m,p-Xylenes	52.6	2.0	0.52	ug/l	50.0		105	70-125			
o-Xylene	25.1	2.0	0.24	ug/l	25.0		100	70-125			
Xylenes, Total	77.6	4.0	0.52	ug/l	75.0		103	70-125			
Di-isopropyl Ether (DIPE)	24.0	5.0	0.25	ug/l	25.0		96	60-135			
Ethyl tert-Butyl Ether (ETBE)	23.2	5.0	0.28	ug/l	25.0		93	60-135			
tert-Amyl Methyl Ether (TAME)	23.0	5.0	0.33	ug/l	25.0		92	60-135			
Methyl-tert-butyl Ether (MTBE)	21.9	5.0	0.32	ug/l	25.0		88	55-140			
tert-Butanol (TBA)	138	50	3.1	ug/l	125		110	65-135			
Ethanol	245	150	100	ug/l	250		98	35-160			
Surrogate: Dibromofluoromethane	*25.4*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*24.9*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			

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METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5H30005 Extracted: 08/30/05											
Matrix Spike Analyzed: 08/30/2005 (5H30005-MS1)						**Source: IOH1716-06**					
Benzene	25.1	2.0	0.28	ug/l	25.0	0.40	99	60-125			
Ethylbenzene	25.0	2.0	0.25	ug/l	25.0	ND	100	65-130			
Toluene	25.0	2.0	0.36	ug/l	25.0	ND	100	65-125			
m,p-Xylenes	50.3	2.0	0.52	ug/l	50.0	ND	101	60-130			
o-Xylene	24.7	2.0	0.24	ug/l	25.0	ND	99	60-125			
Xylenes, Total	75.0	4.0	0.52	ug/l	75.0	ND	100	60-130			
Di-isopropyl Ether (DIPE)	23.8	5.0	0.25	ug/l	25.0	ND	95	60-140			
Ethyl tert-Butyl Ether (ETBE)	24.3	5.0	0.28	ug/l	25.0	ND	97	55-135			
tert-Amyl Methyl Ether (TAME)	25.6	5.0	0.33	ug/l	25.0	ND	102	55-140			
Methyl-tert-butyl Ether (MTBE)	66.0	5.0	0.32	ug/l	25.0	44	88	50-150			
tert-Butanol (TBA)	245	50	3.1	ug/l	125	120	100	60-145			
Ethanol	ND	150	100	ug/l	250	ND		35-160			*LN,AY*
Surrogate: Dibromofluoromethane	*25.4*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*25.1*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.3*			*ug/l*	*25.0*		*97*	*80-120*			
Matrix Spike Dup Analyzed: 08/30/2005 (5H30005-MSD1)						**Source: IOH1716-06**					
Benzene	23.4	2.0	0.28	ug/l	25.0	0.40	92	60-125	7	20	
Ethylbenzene	23.3	2.0	0.25	ug/l	25.0	ND	93	65-130	7	20	
Toluene	23.3	2.0	0.36	ug/l	25.0	ND	93	65-125	7	20	
m,p-Xylenes	46.9	2.0	0.52	ug/l	50.0	ND	94	60-130	7	25	
o-Xylene	22.7	2.0	0.24	ug/l	25.0	ND	91	60-125	8	20	
Xylenes, Total	69.6	4.0	0.52	ug/l	75.0	ND	93	60-130	7	20	
Di-isopropyl Ether (DIPE)	22.4	5.0	0.25	ug/l	25.0	ND	90	60-140	6	25	
Ethyl tert-Butyl Ether (ETBE)	23.5	5.0	0.28	ug/l	25.0	ND	94	55-135	3	25	
tert-Amyl Methyl Ether (TAME)	24.9	5.0	0.33	ug/l	25.0	ND	100	55-140	3	30	
Methyl-tert-butyl Ether (MTBE)	67.2	5.0	0.32	ug/l	25.0	44	93	50-150	2	25	
tert-Butanol (TBA)	229	50	3.1	ug/l	125	120	87	60-145	7	25	
Ethanol	ND	150	100	ug/l	250	ND		35-160		30	*LN,AY*
Surrogate: Dibromofluoromethane	*25.3*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.3*			*ug/l*	*25.0*		*97*	*80-120*			

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Lisa Reightley
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Thousand Oaks, CA 91361
Attention: Don Indermill

Project ID: ARCO 0069, Los Angeles

Report Number: IOH1797

Sampled: 08/19/05
Received: 08/22/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5H30015 Extracted: 08/30/05											
Blank Analyzed: 08/30/2005 (5H30015-BLK1)											
Benzene	ND	2.0	0.28	ug/l							
Ethylbenzene	ND	2.0	0.25	ug/l							
Toluene	ND	2.0	0.36	ug/l							
m,p-Xylenes	ND	2.0	0.52	ug/l							
o-Xylene	ND	2.0	0.24	ug/l							
Xylenes, Total	ND	4.0	0.52	ug/l							
Di-isopropyl Ether (DIPE)	ND	5.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	0.28	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	5.0	0.33	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	5.0	0.32	ug/l							
tert-Butanol (TBA)	ND	50	3.1	ug/l							
Ethanol	ND	150	100	ug/l							
Surrogate: Dibromofluoromethane	*25.9*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*25.7*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*			*ug/l*	*25.0*		*98*	*80-120*			
LCS Analyzed: 08/30/2005 (5H30015-BS1)											
Benzene	24.8	2.0	0.28	ug/l	25.0		99	65-120			
Ethylbenzene	23.8	2.0	0.25	ug/l	25.0		95	70-125			
Toluene	25.1	2.0	0.36	ug/l	25.0		100	70-125			
m,p-Xylenes	49.7	2.0	0.52	ug/l	50.0		99	70-125			
o-Xylene	25.0	2.0	0.24	ug/l	25.0		100	70-125			
Xylenes, Total	74.7	4.0	0.52	ug/l	75.0		100	70-125			
Di-isopropyl Ether (DIPE)	26.6	5.0	0.25	ug/l	25.0		106	60-135			
Ethyl tert-Butyl Ether (ETBE)	28.8	5.0	0.28	ug/l	25.0		115	60-135			
tert-Amyl Methyl Ether (TAME)	29.5	5.0	0.33	ug/l	25.0		118	60-135			
Methyl-tert-butyl Ether (MTBE)	27.7	5.0	0.32	ug/l	25.0		111	55-140			*LO*
tert-Butanol (TBA)	116	50	3.1	ug/l	125		93	65-135			
Ethanol	175	150	100	ug/l	250		70	35-160			
Surrogate: Dibromofluoromethane	*25.8*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*25.8*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			

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Report Number: IOH1797

Sampled: 08/19/05
Received: 08/22/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5H30015 Extracted: 08/30/05											
Matrix Spike Analyzed: 08/30/2005 (5H30015-MS1)						**Source: IOH1712-03**					
Benzene	24.3	2.0	0.28	ug/l	25.0	0.69	94	60-125			
Ethylbenzene	26.3	2.0	0.25	ug/l	25.0	ND	105	65-130			
Toluene	24.6	2.0	0.36	ug/l	25.0	ND	98	65-125			
m,p-Xylenes	53.6	2.0	0.52	ug/l	50.0	ND	107	60-130			
o-Xylene	26.5	2.0	0.24	ug/l	25.0	ND	106	60-125			
Xylenes, Total	80.1	4.0	0.52	ug/l	75.0	ND	107	60-130			
Di-isopropyl Ether (DIPE)	24.8	5.0	0.25	ug/l	25.0	ND	99	60-140			
Ethyl tert-Butyl Ether (ETBE)	26.9	5.0	0.28	ug/l	25.0	ND	108	55-135			
tert-Amyl Methyl Ether (TAME)	29.0	5.0	0.33	ug/l	25.0	0.63	113	55-140			
tert-Butanol (TBA)	480	50	3.1	ug/l	125	390	72	60-145			
Ethanol	191	150	100	ug/l	250	ND	76	35-160			
Surrogate: Dibromofluoromethane	*24.3*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*23.7*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.8*			*ug/l*	*25.0*		*103*	*80-120*			
Matrix Spike Dup Analyzed: 08/30/2005 (5H30015-MSD1)						**Source: IOH1712-03**					
Benzene	25.8	2.0	0.28	ug/l	25.0	0.69	100	60-125	6	20	
Ethylbenzene	25.9	2.0	0.25	ug/l	25.0	ND	104	65-130	2	20	
Toluene	25.9	2.0	0.36	ug/l	25.0	ND	104	65-125	5	20	
m,p-Xylenes	54.5	2.0	0.52	ug/l	50.0	ND	109	60-130	2	25	
o-Xylene	26.1	2.0	0.24	ug/l	25.0	ND	104	60-125	2	20	
Xylenes, Total	80.6	4.0	0.52	ug/l	75.0	ND	107	60-130	1	20	
Di-isopropyl Ether (DIPE)	26.0	5.0	0.25	ug/l	25.0	ND	104	60-140	5	25	
Ethyl tert-Butyl Ether (ETBE)	28.8	5.0	0.28	ug/l	25.0	ND	115	55-135	7	25	
tert-Amyl Methyl Ether (TAME)	29.4	5.0	0.33	ug/l	25.0	0.63	115	55-140	1	30	
tert-Butanol (TBA)	501	50	3.1	ug/l	125	390	89	60-145	4	25	
Ethanol	203	150	100	ug/l	250	ND	81	35-160	6	30	
Surrogate: Dibromofluoromethane	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*26.1*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			

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Received: 08/22/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5H31007 Extracted: 08/31/05											
Blank Analyzed: 08/31/2005 (5H31007-BLK1)											
Benzene	ND	2.0	0.28	ug/l							
Ethylbenzene	ND	2.0	0.25	ug/l							
Toluene	ND	2.0	0.36	ug/l							
m,p-Xylenes	ND	2.0	0.52	ug/l							
o-Xylene	ND	2.0	0.24	ug/l							
Xylenes, Total	ND	4.0	0.52	ug/l							
Di-isopropyl Ether (DIPE)	ND	5.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	0.28	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	5.0	0.33	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	5.0	0.32	ug/l							
tert-Butanol (TBA)	ND	50	3.1	ug/l							
Ethanol	ND	150	100	ug/l							
Surrogate: Dibromofluoromethane	*23.9*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*24.8*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
LCS Analyzed: 08/31/2005 (5H31007-BS1)											
Benzene	24.4	2.0	0.28	ug/l	25.0		98	65-120			
Ethylbenzene	25.6	2.0	0.25	ug/l	25.0		102	70-125			
Toluene	24.8	2.0	0.36	ug/l	25.0		99	70-125			
m,p-Xylenes	51.3	2.0	0.52	ug/l	50.0		103	70-125			
o-Xylene	25.0	2.0	0.24	ug/l	25.0		100	70-125			
Xylenes, Total	76.3	4.0	0.52	ug/l	75.0		102	70-125			
Di-isopropyl Ether (DIPE)	26.2	5.0	0.25	ug/l	25.0		105	60-135			
Ethyl tert-Butyl Ether (ETBE)	25.8	5.0	0.28	ug/l	25.0		103	60-135			
tert-Amyl Methyl Ether (TAME)	26.5	5.0	0.33	ug/l	25.0		106	60-135			
Methyl-tert-butyl Ether (MTBE)	25.4	5.0	0.32	ug/l	25.0		102	55-140			*LO*
tert-Butanol (TBA)	126	50	3.1	ug/l	125		101	65-135			*LO*
Ethanol	275	150	100	ug/l	250		110	35-160			
Surrogate: Dibromofluoromethane	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*25.3*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*			*ug/l*	*25.0*		*100*	*80-120*			

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Report Number: IOH1797

Sampled: 08/19/05
Received: 08/22/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5H31007 Extracted: 08/31/05											
Matrix Spike Analyzed: 08/31/2005 (5H31007-MS1)						**Source: IOH1788-01**					
Benzene	27.4	2.0	0.28	ug/l	25.0	ND	110	60-125			
Ethylbenzene	28.2	2.0	0.25	ug/l	25.0	ND	113	65-130			
Toluene	27.1	2.0	0.36	ug/l	25.0	ND	108	65-125			
m,p-Xylenes	55.8	2.0	0.52	ug/l	50.0	ND	112	60-130			
o-Xylene	27.5	2.0	0.24	ug/l	25.0	ND	110	60-125			
Xylenes, Total	83.2	4.0	0.52	ug/l	75.0	ND	111	60-130			
Di-isopropyl Ether (DIPE)	31.6	5.0	0.25	ug/l	25.0	0.30	125	60-140			
Ethyl tert-Butyl Ether (ETBE)	42.9	5.0	0.28	ug/l	25.0	13	120	55-135			
tert-Amyl Methyl Ether (TAME)	96.9	5.0	0.33	ug/l	25.0	75	88	55-140			
Ethanol	299	150	100	ug/l	250	ND	120	35-160			
Surrogate: Dibromofluoromethane	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*24.9*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			
Matrix Spike Dup Analyzed: 08/31/2005 (5H31007-MSD1)						**Source: IOH1788-01**					
Benzene	25.0	2.0	0.28	ug/l	25.0	ND	100	60-125	9	20	
Ethylbenzene	25.9	2.0	0.25	ug/l	25.0	ND	104	65-130	9	20	
Toluene	24.5	2.0	0.36	ug/l	25.0	ND	98	65-125	10	20	
m,p-Xylenes	51.7	2.0	0.52	ug/l	50.0	ND	103	60-130	8	25	
o-Xylene	25.4	2.0	0.24	ug/l	25.0	ND	102	60-125	8	20	
Xylenes, Total	77.0	4.0	0.52	ug/l	75.0	ND	103	60-130	8	20	
Di-isopropyl Ether (DIPE)	27.9	5.0	0.25	ug/l	25.0	0.30	110	60-140	12	25	
Ethyl tert-Butyl Ether (ETBE)	36.3	5.0	0.28	ug/l	25.0	13	93	55-135	17	25	
tert-Amyl Methyl Ether (TAME)	79.8	5.0	0.33	ug/l	25.0	75	19	55-140	19	30	*LN,AY*
Ethanol	299	150	100	ug/l	250	ND	120	35-160	0	30	
Surrogate: Dibromofluoromethane	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Toluene-d8	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			

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DATA QUALIFIERS AND DEFINITIONS

AZ	Surr. recovery outside of acceptance limits due to matrix interf.
ID	Analyte identified by RT & presence of single mass ion
IO	Contract limits originate from BP-GCLN Technical Requirements
J,DX	EPA Flag - Estimated value,Value < lowest standard (MQL), but > than MDL
LN,AY	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
LO	MS and/or MSD result unavailable. Batch accept. based on LCS rec.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD.
The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For GRO (C4-C12):

GRO (C4-C12) is quantitated against a gasoline standard. Quantitation begins immediately following the methanol peak.

8015 Analysis EDF Parlabel Cross Reference

Analyte	EDF Parlabel
GRO (C4 - C12)	GROC4C12

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Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	Nelac	California
EDD	Water		
EPA 8015B	Water	X	X
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.

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Lisa Reightley
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Chain of Custody Record

Project Name: Q3-2005 GROUNDWATER
BP BU/AR Region/Enfos Segment: RETAIL (Coastal +C.LA)
State or Lead Regulatory Agency:
Requested Due Date (09/03/05): Standard TAT

On-site Time:	Temp:	
Off-site Time:	Temp:	
Sky Conditions:		
Meteorological Events:		
Wind Speed:	Direction:	

Lab Name:	Del Mar Analytical	BP/AR Facility No.:	69	Consultant/Contractor:	SECOR International, Inc
Address:	17461 Derian Ave Ste 100	BP/AR Facility Address:	9922 Figueroa St. S, L.A., CA	Address:	290 Conejo Ridge Ave Sute 200
	Irvine, CA 92614	Site Lat/Long:			Thousand Oaks, CA 91361
Lab PM:	Chris Roberts	California Global ID No.:	T0603700415	Consultant/Contractor Project No.:	37BP.00069.00
Tele/Fax:	949-261-1022	Enfos Project No.:	G0C9Y-0001	Consultant/Contractor PM:	LISA MORENO/ DON INDERMILL
BP/AR PM Contact:	Ravie Kolhatkar	Provision or RCOP (circle one)		Tele/Fax:	805-230-1266/805-230-1277
Address:	4 Centerpoint Dr.	Phase/WBS:	3- WATER	Report Type & QC Level:	Standard
	La Palma, CA	Sub Phase/Task:	Analytical	E-mail EDD To:	bauchard @secor.com
Tele/Fax:	(714) 670-3061	Cost Element:	Sub Contracted Cost	Invoice to:	Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol		Requested Analysis: GRO C4-C12 (8015)	Requested Analysis: BTEX/OXY/ET (8260)									Sample Point Lat/Long and Comments
							1041797																		
1	MW-1	1030	8/19/05		X			4				X			X	X									
2	MW-2	1105	8/19/05		X							X			X	X									
3	MW-3	0935	8/19/05		X							X			X	X									
4	MW-5	1215	8/19/05		X							X			X	X									
5	MW-6	1240	8/19/05		X							X			X	X									
6	MW-7	1200	8/19/05		X							X			X	X									
~~7~~	~~MW-8~~				X							X			X	X									
8	DUP-0069-20050819	—	8/19/05		X							X			X	X									
9	TB-0069-20050819	—	8/19/05		X							X			X	X									
~~10~~	~~EB-0069-20050819~~				X							X			X	X									
11																									

Sampler's Name:	Shawn Dickinson	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	SECOR	Shawn Dickinson to Ridge	8/22/05	1200	BDR Ridge DMAI	8/22/05	12:15
Shipment Date:		BDR Ridge DMAI	8/22/05	1540			
Shipment Method:							
Shipment Tracking No:						8/22/05	15:40

Special Instructions:

Custody Seals In Place Yes____ No X Temp Blank Yes____ No X Cooler Temperature on Receipt 4 °F/C Trip Blank Yes X No____

Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

July 15, 2005

STL LOT NUMBER: **E5G080345**
PO/CONTRACT: GEM-6-21909

DON INDERMILL
SECOR International Inc
290 Conejo Ridge Ave
Suite 200
Thousand Oaks, CA 91361

Dear DON INDERMILL,

This report contains the analytical results for the two samples received under chain of custody by STL Los Angeles on July 8, 2005. These samples are associated with your ARCO #69 project.

STL Los Angeles certifies that the test results provided in this report meet all the requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA/E87652.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000015 pages.

CASE NARRATIVE

Historical control limits for the LCS are used to define the estimate of uncertainty for a method.

All applicable quality control procedures met method-specified acceptance criteria.

If you have any questions, please feel free to call me at 714.258.8610.

Sincerely,

Sabina Sudoko
Project Manager
CC: Project File

ARCO SITE#69

ES6080345

Page 1 of 1

Chain of Custody Record

Project Name: 2005-Q2 O&M
BP BU/AR Region/Enfos Segment: Retail (Coastal + CLA)
State or Lead Regulatory Agency: LARWQCB
Requested Due Date (mm/dd/yy): 7-25-05

On-site Time: 800	Temp: 77
Off-site Time: 1030	Temp: 79
Sky Conditions: Clear	
Meteorological Events: None	
Wind Speed: None	Direction: None

Lab Name:	STL	BP/AR Facility No.:	69	Consultant/Contractor:	SECOR International Inc.
Address:	1721 South Grand Ave	BP/AR Facility Address:	9922 S. Figueroa, Los Angeles	Address:	290 Conejo Ridge Ave, Suite 200
	Santa Ana, CA 92705	Site Lat/Long:			Thousand Oaks, CA 91361
Lab PM:	Sabina Sudoko	California Global ID No.:	T0603700415	Consultant/Contractor Project No.:	37BP.U0069.
Tele/Fax:	(714)258-8610	Enfos Project No.:	G0C9Y-0001	Consultant/Contractor PM:	Don Indermill
BP/AR PM Contact:	Jack Oman	Provision or RCOP (circle one)		Tele/Fax:	(805) 230-1266 x 269
Address:	6 Centerpointe Dr.	Phase/WBS:	System O&M - Phase 3	Report Type & QC Level:	LARWQCB
	La Palma, CA	Sub Phase/Task:	Analytical	E-mail EDD To:	bauchard@secor.com
Tele/Fax:	714-730-1898	Cost Element:	Subcontracted Costs	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)	

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol		Requested Analysis: BTEX 8021	BTEX/TPH	BTEX/Oxy/TPH	EPA 8260	EPA 8270	VFH C4-C12(TO-3)	BTEX/OXY(TO-14A)	Fixed Gases (D1946)			Sample Point Lat/Long and Comments
1	Sys Inf	840	7-7			X		1												X	X	X			VP-INF
2	Sys Eff	832	7-7			X		1												X	X	X			VP-EFF
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Tony Hilderbrandson						
Sampler's Company: SECOR	SECOR	7-8	1000		7/8/05	11:51
Shipment Date:	STL	7-8	1:25		7/8/05	1325
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes ____ No ____ Temp Blank Yes ____ No ____ Cooler Temperature on Receipt ____ °F/C Trip Blank Yes ____ No ____

Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor

BP COC Rev. 4 10/1/04

3

ES6080345

SECOR International Inc

Client Sample ID: SYS INF

GC/MS Volatiles

Lot-Sample #...: E5G080345-001 **Work Order #...:** HE5GJ1AC **Matrix.....:** V
Date Sampled...: 07/07/05 08:40 **Date Received..:** 07/08/05 13:25
Prep Date.....: 07/09/05 **Analysis Date..:** 07/09/05
Prep Batch #...: 5195447 **Analysis Time..:** 17:16
Dilution Factor: 1
Analyst ID.....: 117751 **Instrument ID..:** MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
tert-Butyl alcohol	**0.0025 JDX**	**0.010**	**ppm(v/v)**	**0.0010**
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	0.00020
Diisopropyl Ether (DIPE)	ND	0.0020	ppm(v/v)	0.00020
Ethyl-t-Butyl Ether (ETBE)	ND	0.0020	ppm(v/v)	0.00020
Benzene	**0.0083**	**0.0020**	**ppm(v/v)**	**0.00080**
Toluene	**0.0044 JDX**	**0.0050**	**ppm(v/v)**	**0.00050**
Ethylbenzene	**0.029**	**0.0020**	**ppm(v/v)**	**0.00050**
m-Xylene & p-Xylene	**0.36**	**0.0020**	**ppm(v/v)**	**0.0010**
o-Xylene	**0.22**	**0.0020**	**ppm(v/v)**	**0.00060**
Xylenes (total)	**0.58**	**0.0020**	**ppm(v/v)**	**0.0010**
Methyl tert-butyl ether (MTBE)	ND	0.0020	ppm(v/v)	0.00050

NOTE(S):

JDX J=EPA Flag - Esitmated value; DX = Value < lowest standard (MQL). but > MDL.

SECOR International Inc

Client Sample ID: SYS INF

GC Volatiles

Lot-Sample #...: E5G080345-001 **Work Order #...:** HE5GJ1AD **Matrix.....:** V
Date Sampled...: 07/07/05 08:40 **Date Received..:** 07/08/05 13:25
Prep Date.....: 07/08/05 **Analysis Date..:** 07/08/05
Prep Batch #...: 5192597 **Analysis Time..:** 21:02
Dilution Factor: 1
Analyst ID.....: 101605 **Instrument ID..:** GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.43**	**0.010**	**%(v/v)**	**0.0020**
Oxygen	**21**	**0.20**	**%(v/v)**	**0.030**
Nitrogen	**79**	**1.0**	**%(v/v)**	**0.70**
Methane	**0.0040**	**0.00020**	**%(v/v)**	**0.000060**
Carbon monoxide	ND	0.0010	%(v/v)	0.00030

SECOR International Inc

Client Sample ID: SYS INF

GC Volatiles

Lot-Sample #...: E5G080345-001 **Work Order #...:** HE5GJ1AA **Matrix.....:** V
Date Sampled...: 07/07/05 08:40 **Date Received..:** 07/08/05 13:25
Prep Date.....: 07/08/05 **Analysis Date..:** 07/08/05
Prep Batch #...: 5189455 **Analysis Time..:** 17:11
Dilution Factor: 2.9
Analyst ID.....: 358011 **Instrument ID..:** GC7
Method.....: EPA-19 TO-3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	**11**	**2.9**	**ppm(v/v)**	**0.87**

SECOR International Inc

Client Sample ID: SYS EFF

GC/MS Volatiles

Lot-Sample #...: E5G080345-002 **Work Order #...:** HE5GK1AC **Matrix.....:** V
Date Sampled...: 07/07/05 08:32 **Date Received..:** 07/08/05 13:25
Prep Date.....: 07/09/05 **Analysis Date..:** 07/09/05
Prep Batch #...: 5195447 **Analysis Time..:** 17:52
Dilution Factor: 1
Analyst ID.....: 117751 **Instrument ID..:** MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
tert-Butyl alcohol	ND	0.010	ppm(v/v)	0.0010
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	0.00020
Diisopropyl Ether (DIPE)	ND	0.0020	ppm(v/v)	0.00020
Ethyl-t-Butyl Ether (ETBE)	ND	0.0020	ppm(v/v)	0.00020
Benzene	ND	0.0020	ppm(v/v)	0.00080
Toluene	**0.0050**	**0.0050**	**ppm(v/v)**	**0.00050**
Ethylbenzene	**0.0033**	**0.0020**	**ppm(v/v)**	**0.00050**
m-Xylene & p-Xylene	**0.016**	**0.0020**	**ppm(v/v)**	**0.0010**
o-Xylene	**0.0086**	**0.0020**	**ppm(v/v)**	**0.00060**
Xylenes (total)	**0.025**	**0.0020**	**ppm(v/v)**	**0.0010**
Methyl tert-butyl ether (MTBE)	ND	0.0020	ppm(v/v)	0.00050

SECOR International Inc

Client Sample ID: SYS EFF

GC Volatiles

Lot-Sample #...: E5G080345-002 **Work Order #...:** HE5GK1AD **Matrix.....:** V
Date Sampled...: 07/07/05 08:32 **Date Received..:** 07/08/05 13:25
Prep Date.....: 07/08/05 **Analysis Date..:** 07/08/05
Prep Batch #...: 5192597 **Analysis Time..:** 21:31
Dilution Factor: 1
Analyst ID.....: 101605 **Instrument ID..:** GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.056**	**0.010**	**%(v/v)**	**0.0020**
Oxygen	**23**	**0.20**	**%(v/v)**	**0.030**
Nitrogen	**77**	**1.0**	**%(v/v)**	**0.70**
Methane	**0.00024**	**0.00020**	**%(v/v)**	**0.000060**
Carbon monoxide	ND	0.0010	%(v/v)	0.00030

SECOR International Inc

Client Sample ID: SYS EFF

GC Volatiles

Lot-Sample #...: E5G080345-002 **Work Order #...:** HE5GK1AA **Matrix.....:** V
Date Sampled...: 07/07/05 08:32 **Date Received..:** 07/08/05 13:25
Prep Date.....: 07/08/05 **Analysis Date..:** 07/08/05
Prep Batch #...: 5189455 **Analysis Time..:** 15:04
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC7
Method.....: EPA-19 TO-3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	**1.0**	**1.0**	**ppm(v/v)**	**0.30**

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5G080345 **Work Order #...:** HFHVH1AA **Matrix.....:** AIR
MB Lot-Sample #: M5G140000-447

Prep Date.....: 07/09/05 **Analysis Time..:** 16:49
Analysis Date..: 07/09/05 **Prep Batch #...:** 5195447 **Instrument ID..:** MSA
Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
tert-Butyl alcohol	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Diisopropyl Ether (DIPE)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethyl-t-Butyl Ether (ETBE	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Toluene	ND	0.0050	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
o-Xylene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E5G080345 **Work Order #...:** HE8VH1AA **Matrix.....:** AIR
MB Lot-Sample #: M5G110000-597

Prep Date.....: 07/08/05 **Analysis Time..:** 19:31
Analysis Date..: 07/08/05 **Prep Batch #...:** 5192597 **Instrument ID..:** GC3
Dilution Factor: 1

Analyst ID.....: 101605

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Oxygen	ND	0.20	%(v/v)	ASTM D1946
Nitrogen	ND	1.0	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E5G080345 **Work Order #...:** HE5691AA **Matrix.....:** AIR
MB Lot-Sample #: M5G080000-455

Prep Date.....: 07/08/05 **Analysis Time..:** 11:50
Analysis Date..: 07/08/05 **Prep Batch #...:** 5189455 **Instrument ID..:** GC7
Dilution Factor: 1

Analyst ID.....: 358011

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
GRO (C4 - C12)	ND	1.0	ppm(v/v)	EPA-19 TO-3

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5G080345 **Work Order #...:** HFHVH1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M5G140000-447 HFHVH1AD-LCSD
Prep Date.....: 07/09/05 **Analysis Date..:** 07/09/05
Prep Batch #...: 5195447 **Analysis Time..:** 12:34
Dilution Factor: 1 **Instrument ID..:** MSA
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
tert-Butyl alcohol	0.250	0.215	ppm(v/v)	86		EPA-21 TO-14A
	0.250	0.209	ppm(v/v)	84	2.8	EPA-21 TO-14A
Tert-amyl methyl ether	0.0500	0.0411	ppm(v/v)	82		EPA-21 TO-14A
	0.0500	0.0411	ppm(v/v)	82	0.020	EPA-21 TO-14A
Ethyl-t-Butyl Ether (ETBE)	0.0500	0.0384	ppm(v/v)	77		EPA-21 TO-14A
	0.0500	0.0378	ppm(v/v)	76	1.5	EPA-21 TO-14A
Diisopropyl Ether (DIPE)	0.0500	0.0366	ppm(v/v)	73		EPA-21 TO-14A
	0.0500	0.0357	ppm(v/v)	71	2.5	EPA-21 TO-14A
Benzene	0.0500	0.0525	ppm(v/v)	105		EPA-21 TO-14A
	0.0500	0.0529	ppm(v/v)	106	0.60	EPA-21 TO-14A
Toluene	0.0500	0.0544	ppm(v/v)	109		EPA-21 TO-14A
	0.0500	0.0563	ppm(v/v)	113	3.3	EPA-21 TO-14A
Ethylbenzene	0.0500	0.0516	ppm(v/v)	103		EPA-21 TO-14A
	0.0500	0.0536	ppm(v/v)	107	3.7	EPA-21 TO-14A
m-Xylene & p-Xylene	0.100	0.0996	ppm(v/v)	100		EPA-21 TO-14A
	0.100	0.107	ppm(v/v)	107	7.3	EPA-21 TO-14A
o-Xylene	0.0500	0.0486	ppm(v/v)	97		EPA-21 TO-14A
	0.0500	0.0529	ppm(v/v)	106	8.4	EPA-21 TO-14A
Xylenes (total)	0.150	0.148	ppm(v/v)	99		EPA-21 TO-14A
	0.150	0.160	ppm(v/v)	107	7.6	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.0500	0.0516	ppm(v/v)	103		EPA-21 TO-14A
	0.0500	0.0518	ppm(v/v)	104	0.40	EPA-21 TO-14A

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E5G080345 **Work Order #...:** HE8VH1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M5G110000-597 HE8VH1AD-LCSD
Prep Date.....: 07/08/05 **Analysis Date..:** 07/08/05
Prep Batch #...: 5192597 **Analysis Time..:** 18:51
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	**1.00**	**1.04**	**%(v/v)**	**104**		**ASTM D1946**
	1.00	**1.04**	**%(v/v)**	**104**	**0.36**	**ASTM D1946**
Methane	**0.0500**	**0.0505**	**%(v/v)**	**101**		**ASTM D1946**
	0.0500	**0.0507**	**%(v/v)**	**101**	**0.46**	**ASTM D1946**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E5G080345 **Work Order #...:** HE5691AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M5G080000-455 HE5691AD-LCSD
Prep Date.....: 07/08/05 **Analysis Date..:** 07/08/05
Prep Batch #...: 5189455 **Analysis Time..:** 09:40
Dilution Factor: 1 **Instrument ID..:** GC7
Analyst ID.....: 358011

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
GRO (C4 - C12)	**10.3**	**10.5 LW**	**ppm(v/v)**	**102**		**EPA-19 TO-3**
	10.3	**10.2 LW**	**ppm(v/v)**	**99**	**2.3**	**EPA-19 TO-3**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LW Quantited against gasoline.

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

August 19, 2005

STL LOT NUMBER: **E5H040367A**
PO/CONTRACT: GEM-6-21909

DON INDERMILL
SECOR International Inc
290 Conejo Ridge Ave
Suite 200
Thousand Oaks, CA 91361

Dear DON INDERMILL,

This report contains the **AMENDED** analytical results for the two samples received under chain of custody by STL Los Angeles on August 4, 2005. These samples are associated with your ARCO #0069 project.

The report was amended to correct the missing "JDX" Flag on the Method Blank.

STL Los Angeles certifies that the test results provided in this report meet all the requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA/E87652.

This report shall not be reproduced except in full, without the written approval of the laboratory.

000017

This report contains _____ pages.

CASE NARRATIVE

Historical control limits for the LCS are used to define the estimate of uncertainty for a method.

All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page.

Please note that Method E410A analysis was indicated on the chain of custody for this project; the client was notified on August 4, 2005 that STL Los Angeles does not perform this method

If you have any questions, please feel free to call me at 714.258.8610.

Sincerely,

Beth Riley for

Sabina Sudoko
Project Manager
CC: Project File

LOT NUMBER E5H040367

Nonconformance 05-13522

Affected Samples:
E5H040367 (1): EFFLUENT

Affected Methods:
TO3, TO14A

Details:
The chain of custody (COC) indicates two bags for the above sample, but the laboratory received only one bag.

Sudoko, Sabina

From: ssudoko@stl-inc.com
Sent: Thursday, August 04, 2005 4:10 PM
To: bauchard@secor.com; dindermill@secor.com; adouglas@secor.com
Subject: Information for E5H040367

Sample
ifirmation for E5H04

* *

Lot ID: E5H040367
Project Number: 37B0.00069.00
Project Name/Site: ARCO #0069

Acknowledgment of samples received for ARCO 69

Note: The COC indicates 2 bags for EFFLUENT, but only 1 bag was received.

- The COC indicates E410A (Benzene).. we do not do this analysis.

Pls check the sample confirmation sheet.

thank you..

Sabina Sudoko
(714)258-8610
ssudoko@stl-inc.com

This message and any files transmitted with it are confidential and intended solely for the use of the addressee. If you have received this message in error please notify the sender and destroy your copies of the message and any attached files.

[00210240]
Version: 2.1.10

ARCO SITE #0069

E5H040367 Page 1 of 1

Chain of Custody Record

Project Name	O&M
BP BU/GEM CO Portfolio:	Retail (Coastal + C. LA)
BP Laboratory Contract Number:	Atlantic Richfield
Requested Due Date (mm/dd/yy)	8-14-05

On-site Time: 1000	Temp: 84
Off-site Time: 230	Temp: 90
Sky Conditions: Clear	
Meteorological Events: None	
Wind Speed: None	Direction:

Send To:					
Lab Name:	STL	BP/GEM Facility No.:	00069	Consultant/Contractor:	SECOR International, Inc.
Lab Address:	1721 S. Grand Ave.	BP/GEM Facility Address:	9922 S. Figueroa, L.A., CA	Address:	290 Conejo Ridge Ave., Suite 200
	Santa Ana, CA.	Site ID No.			Thousand Oaks, CA 91361
		Site Lat/Long:		e-mail EDD:	bauchard@secor.com
		California Global ID #:	T0603700415	Consultant/Contractor Project No.:	37BP.00069.00
Lab PM:	Beth Riley	BP/GEM PM Contact:	Ravi Kolhatkar	Consultant/Contractor Tele/Fax:	(805) 230-1266
Tele/Fax:	714-258-8610	Address:	4 Centerpoint Dr.	Consultant/Contractor PM:	Don Indermill
Report Type & QC Level:	Standard		La Palma, CA	Invoice to:	Consultant
BP/GEM Account No.:		Tele/Fax:	(714) 670-3061	BP/GEM Work Release No:	

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl			Requested Analysis: GRO C4-C12 (TO-3)	Requested Analysis: BTEX/OXY (TO-14)	Requested Analysis: Fixed Gases	Requested Analysis: Benzene - EPA410A							Field Point Name / Comments
1	Effluent	1228	8-3			X		2							X	X	X	X							
2	Influent	1231	8-3			X		1							X	X	X								
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Tony Nickelson						
Sampler's Company: SECOR	SECOR	8-4	800		8/4/05	1:45 pm
Shipment Date:		8/4	2:15 pm		8/4/05	1415
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes____ No____ Temp Blank Yes____ No____ Cooler Temperature on Receipt ____ °F/C Trip Blank Yes____ No____

BP COC Rev. 3 12/15/03

E5H040367A

SECOR International Inc

Client Sample ID: EFFLUENT

GC/MS Volatiles

Lot-Sample #...: E5H040367-001 **Work Order #...:** HG0V91AC **Matrix.....:** V
Date Sampled...: 08/03/05 12:28 **Date Received..:** 08/04/05
Prep Date.....: 08/04/05 **Analysis Date..:** 08/04/05
Prep Batch #...: 5217329 **Analysis Time..:** 19:21
Dilution Factor: 1
Analyst ID.....: 101605 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
tert-Butyl alcohol	ND	0.010	ppm(v/v)	0.0010
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	0.00020
Diisopropyl Ether (DIPE)	ND	0.0020	ppm(v/v)	0.00020
Ethyl-t-Butyl Ether (ETBE)	ND	0.0020	ppm(v/v)	0.00020
Benzene	ND	0.0020	ppm(v/v)	0.00080
Toluene	**0.0033 JDX**	**0.0050**	**ppm(v/v)**	**0.00050**
Ethylbenzene	ND	0.0020	ppm(v/v)	0.00050
m-Xylene & p-Xylene	**0.0054**	**0.0020**	**ppm(v/v)**	**0.0010**
o-Xylene	**0.0037**	**0.0020**	**ppm(v/v)**	**0.00060**
Xylenes (total)	**0.0090**	**0.0020**	**ppm(v/v)**	**0.0010**
Methyl tert-butyl ether (MTBE)	ND	0.0020	ppm(v/v)	0.00050

NOTE(S):

JDX J=EPA Flag - Esitmated value; DX = Value < lowest standard (MQL). but > MDL.

SECOR International Inc

Client Sample ID: EFFLUENT

GC Volatiles

Lot-Sample #...: E5H040367-001 **Work Order #...:** HG0V91AD **Matrix.....:** V
Date Sampled...: 08/03/05 12:28 **Date Received..:** 08/04/05
Prep Date.....: 08/05/05 **Analysis Date..:** 08/05/05
Prep Batch #...: 5217447 **Analysis Time..:** 08:58
Dilution Factor: 1
Analyst ID.....: 101605 **Instrument ID..:** GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.048**	**0.010**	**%(v/v)**	**0.0020**
Oxygen	**24**	**0.20**	**%(v/v)**	**0.030**
Nitrogen	**78**	**1.0**	**%(v/v)**	**0.70**
Methane	**0.00024**	**0.00020**	**%(v/v)**	**0.000060**
Carbon monoxide	ND	0.0010	%(v/v)	0.00030

SECOR International Inc

Client Sample ID: **EFFLUENT**

GC Volatiles

Lot-Sample #...: E5H040367-001 **Work Order #...:** HG0V91AA **Matrix.....:** V
Date Sampled...: 08/03/05 12:28 **Date Received..:** 08/04/05
Prep Date.....: 08/05/05 **Analysis Date..:** 08/05/05
Prep Batch #...: 5220541 **Analysis Time..:** 17:12
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC7
Method.....: EPA-19 TO-3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	**0.50 JDX**	**1.0**	**ppm(v/v)**	**0.30**

NOTE(S):

JDX J=EPA Flag - Esitmated value; DX = Value < lowest standard (MQL). but > MDL.

SECOR International Inc

Client Sample ID: INFLUENT

GC/MS Volatiles

Lot-Sample #...: E5H040367-002 **Work Order #...:** HG0WE1AC **Matrix.....:** V
Date Sampled...: 08/03/05 12:31 **Date Received..:** 08/04/05
Prep Date.....: 08/04/05 **Analysis Date..:** 08/04/05
Prep Batch #...: 5217329 **Analysis Time..:** 19:59
Dilution Factor: 1
Analyst ID.....: 101605 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
tert-Butyl alcohol	**0.0079 JDX**	**0.010**	**ppm(v/v)**	**0.0010**
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	0.00020
Diisopropyl Ether (DIPE)	ND	0.0020	ppm(v/v)	0.00020
Ethyl-t-Butyl Ether (ETBE)	ND	0.0020	ppm(v/v)	0.00020
Benzene	**0.0076**	**0.0020**	**ppm(v/v)**	**0.00080**
Toluene	**0.0041 JDX**	**0.0050**	**ppm(v/v)**	**0.00050**
Ethylbenzene	**0.029**	**0.0020**	**ppm(v/v)**	**0.00050**
m-Xylene & p-Xylene	**0.29**	**0.0020**	**ppm(v/v)**	**0.0010**
o-Xylene	**0.17**	**0.0020**	**ppm(v/v)**	**0.00060**
Xylenes (total)	**0.45**	**0.0020**	**ppm(v/v)**	**0.0010**
Methyl tert-butyl ether (MTBE)	**0.0063**	**0.0020**	**ppm(v/v)**	**0.00050**

NOTE(S):

JDX J=EPA Flag - Esitmated value; DX = Value < lowest standard (MQL). but > MDL.

SECOR International Inc

Client Sample ID: INFLUENT

GC Volatiles

Lot-Sample #...: E5H040367-002 **Work Order #...:** HG0WE1AD **Matrix.....:** V
Date Sampled...: 08/03/05 12:31 **Date Received..:** 08/04/05
Prep Date.....: 08/05/05 **Analysis Date..:** 08/05/05
Prep Batch #...: 5217447 **Analysis Time..:** 09:18
Dilution Factor: 1
Analyst ID.....: 101605 **Instrument ID..:** GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	**0.48**	**0.010**	**%(v/v)**	**0.0020**
Oxygen	**22**	**0.20**	**%(v/v)**	**0.030**
Nitrogen	**79**	**1.0**	**%(v/v)**	**0.70**
Methane	**0.0042**	**0.00020**	**%(v/v)**	**0.000060**
Carbon monoxide	ND	0.0010	%(v/v)	0.00030

SECOR International Inc

Client Sample ID: INFLUENT

GC Volatiles

Lot-Sample #...: E5H040367-002 **Work Order #...:** HG0WE1AA **Matrix.....:** V
Date Sampled...: 08/03/05 12:31 **Date Received..:** 08/04/05
Prep Date.....: 08/05/05 **Analysis Date..:** 08/05/05
Prep Batch #...: 5220541 **Analysis Time..:** 17:33
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC7
Method.....: EPA-19 TO-3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
GRO (C4 - C12)	**23**	**1.0**	**ppm(v/v)**	**0.30**

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5H040367 **Work Order #...:** HG2021AE **Matrix.....:** AIR
MB Lot-Sample #: M5H050000-329

Prep Date.....: 08/04/05 **Analysis Time..:** 10:34
Analysis Date..: 08/04/05 **Prep Batch #...:** 5217329 **Instrument ID..:** MSB
Dilution Factor: 1

Analyst ID.....: 101605

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
tert-Butyl alcohol	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Tert-amyl methyl ether	**0.00061 JDX**	**0.0020**	**ppm(v/v)**	**EPA-21 TO-14A**
Diisopropyl Ether (DIPE)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethyl-t-Butyl Ether (ETBE	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Benzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Toluene	ND	0.0050	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
o-Xylene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

JDX J=EPA Flag - Esitmated value; DX = Value < lowest standard (MQL). but > MDL.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E5H040367 **Work Order #...:** HG3XG1AA **Matrix.....:** AIR
MB Lot-Sample #: M5H050000-447

Prep Date.....: 08/05/05 **Analysis Time..:** 07:40
Analysis Date..: 08/05/05 **Prep Batch #...:** 5217447 **Instrument ID..:** GC3
Dilution Factor: 1

Analyst ID.....: 101605

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Oxygen	ND	0.20	%(v/v)	ASTM D1946
Nitrogen	ND	1.0	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E5H040367 **Work Order #...:** HG6F61AA **Matrix.....:** AIR
MB Lot-Sample #: M5H080000-541

Prep Date.....: 08/05/05 **Analysis Time..:** 12:12
Analysis Date..: 08/05/05 **Prep Batch #...:** 5220541 **Instrument ID..:** GC7
Dilution Factor: 1

Analyst ID.....: 358011

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
GRO (C4 - C12)	ND	1.0	ppm(v/v)	EPA-19 TO-3

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5H040367 **Work Order #...:** HG2021AF-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M5H050000-329 HG2021AG-LCSD
Prep Date.....: 08/04/05 **Analysis Date..:** 08/04/05
Prep Batch #...: 5217329 **Analysis Time..:** 09:34
Dilution Factor: 1 **Instrument ID..:** MSB
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
tert-Butyl alcohol	0.250	0.241	ppm(v/v)	96		EPA-21 TO-14A
	0.250	0.240	ppm(v/v)	96	0.41	EPA-21 TO-14A
Tert-amyl methyl ether	0.0500	0.0462	ppm(v/v)	92		EPA-21 TO-14A
	0.0500	0.0458	ppm(v/v)	92	1.0	EPA-21 TO-14A
Ethyl-t-Butyl Ether (ETBE)	0.0500	0.0451	ppm(v/v)	90		EPA-21 TO-14A
	0.0500	0.0447	ppm(v/v)	89	0.75	EPA-21 TO-14A
Diisopropyl Ether (DIPE)	0.0500	0.0448	ppm(v/v)	90		EPA-21 TO-14A
	0.0500	0.0458	ppm(v/v)	92	2.2	EPA-21 TO-14A
Benzene	0.0500	0.0464	ppm(v/v)	93		EPA-21 TO-14A
	0.0500	0.0469	ppm(v/v)	94	1.0	EPA-21 TO-14A
Toluene	0.0500	0.0484	ppm(v/v)	97		EPA-21 TO-14A
	0.0500	0.0491	ppm(v/v)	98	1.4	EPA-21 TO-14A
Ethylbenzene	0.0500	0.0468	ppm(v/v)	94		EPA-21 TO-14A
	0.0500	0.0473	ppm(v/v)	95	1.0	EPA-21 TO-14A
m-Xylene & p-Xylene	0.100	0.0967	ppm(v/v)	97		EPA-21 TO-14A
	0.100	0.0964	ppm(v/v)	96	0.34	EPA-21 TO-14A
o-Xylene	0.0500	0.0460	ppm(v/v)	92		EPA-21 TO-14A
	0.0500	0.0456	ppm(v/v)	91	0.96	EPA-21 TO-14A
Xylenes (total)	0.150	0.143	ppm(v/v)	95		EPA-21 TO-14A
	0.150	0.142	ppm(v/v)	95	0.56	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.0500	0.0432	ppm(v/v)	86		EPA-21 TO-14A
	0.0500	0.0439	ppm(v/v)	88	1.4	EPA-21 TO-14A

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E5H040367 **Work Order #...:** HG3XG1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M5H050000-447 HG3XG1AD-LCSD
Prep Date.....: 08/05/05 **Analysis Date..:** 08/05/05
Prep Batch #...: 5217447 **Analysis Time..:** 07:01
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	**1.00**	**0.900**	**%(v/v)**	**90**		**ASTM D1946**
	1.00	**0.911**	**%(v/v)**	**91**	**1.1**	**ASTM D1946**
Methane	**0.0500**	**0.0503**	**%(v/v)**	**101**		**ASTM D1946**
	0.0500	**0.0503**	**%(v/v)**	**101**	**0.020**	**ASTM D1946**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E5H040367 **Work Order #...:** HG6F61AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M5H080000-541 HG6F61AD-LCSD
Prep Date.....: 08/05/05 **Analysis Date..:** 08/05/05
Prep Batch #...: 5220541 **Analysis Time..:** 10:04
Dilution Factor: 1 **Instrument ID..:** GC7
Analyst ID.....: 358011

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
GRO (C4 - C12)	**10.3**	**10.4 LW**	**ppm(v/v)**	**101**		**EPA-19 TO-3**
	10.3	**10.3 LW**	**ppm(v/v)**	**100**	**0.98**	**EPA-19 TO-3**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LW Quantited against gasoline.

Chain of Custody Record

Project Name: 2005-Q2 O&M
BP BU/AR Region/Enfos Segment: Retail (Coastal + CLA)
State or Lead Regulatory Agency: LARWQCB
Requested Due Date (mm/dd/yy): 9-23-05

On-site Time: 1130		Temp:	
Off-site Time: 1245		Temp:	
Sky Conditions: clear			
Meteorological Events: none			
Wind Speed: none		Direction: -	

Lab Name:	Del Mar	BP/AR Facility No.:	69	Consultant/Contractor:	SECOR International Inc.
Address:	17461 Derian Ave	BP/AR Facility Address:	9922 S. Figueroa, Los Angeles	Address:	290 Conejo Ridge Ave, Suite 200
	Irvine Ca	Site Lat/Long:			Thousand Oaks, CA 91361
Lab PM:	Chris Roberts	California Global ID No.:	T0603700415	Consultant/Contractor Project No.:	37BP.U0069.
Tele/Fax:	949-261-1022	Enfos Project No.:	G0C9Y-0001	Consultant/Contractor PM:	Don Indermill
BP/AR PM Contact:	Jack Oman	Provision or RCOP (circle one)		Tele/Fax:	(805) 230-1266 x 269
Address:	6 Centerpointe Dr.	Phase/WBS:	System O&M - Phase 3	Report Type & QC Level:	LARWQCB
	La Palma, CA	Sub Phase/Task:	Analytical	E-mail EDD To:	bauchard@secor.com
Tele/Fax:	714-730-1898	Cost Element:	Subcontracted Costs	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)	

Lab Bottle Order No: 101056

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: BTEX 8021	BTEX/TPH	BTEX/Oxy/TPH	EPA 8260	EPA 8270	VFH C4-C12(TO-3)	BTEX/OXY(TO-14A)	Fixed Gases (D1946)			Sample Point Lat/Long and Comments
1	Sys Inf	1148	9-8			X		1											X	X	X			VP-INF
2	Sys Eff	1150	9-8			X		1											X	X	X			VP-EFF
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Tulickesen						
Sampler's Company: SECOR	SECOR	9-9	200	From Office Carmen Chen	9/9/05	920
Shipment Date:	[illegible] MAI	9/9/05	122	in Bank	9-9-05	1220
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes ___ No ✓ Temp Blank Yes ___ No ✓ Cooler Temperature on Receipt 27°F/C Trip Blank Yes ___ No ✓

Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor

Del Mar Analytical

17461 Derian Ave., Suite 100., Irvine CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (949) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

September 23, 2005

SECOR International, Inc.
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Attention: Don Indermill

Project: ARCO 0069, Los Angeles
Sampled: 09/08/05
Del Mar Analytical Number: IOI0586

Dear Mr. Indermill:

Air Technology Laboratories, Inc. performed EPA TO-14, EPA TO-3(TVPH as Gasoline), and ASTM D1946 Fixed Gases analyses for the project referenced above. Please use the following cross-reference table when reviewing your results.

Secor ID	Del Mar – Irvine ID	Air Technology ID
Sys Inf	IOI0586-01	A5090904-01
Sys Eff	IOI0586-02	A5090904-02

Attached is the original report from Air Technology Laboratories, Inc. If you have any questions or require further assistance, please contact me at (949) 261-1022 extension 229.

Sincerely yours,

DEL MAR ANALYTICAL

Lisa Reightley
Project Manager

Enclosure

Client: Del Mar Analytical
Attn: Lisa Reightley

Client's Project: IOI0586
Date Received: 09/09/05
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A5090904-01		A5090904-02							
Client Sample I.D.:		IOI0586-01		IOI0586-02							
Date Sampled:		09/08/05		09/08/05							
Date Analyzed:		09/10/05		09/09/05							
QC Batch No:		050909MS2A1		050909MS2A1							
Analyst Initials:		JM		JM							
Dilution Factor:		1.0		1.0							
ANALYTE	PQL	Result	RL	Result	RL						
Dichlorodifluoromethane (12)	1.0	ND	1.0	ND	1.0						
Chloromethane	2.0	ND	2.0	ND	2.0						
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0						
Vinyl Chloride	1.0	ND	1.0	ND	1.0						
Bromomethane	1.0	ND	1.0	ND	1.0						
Chloroethane	1.0	ND	1.0	ND	1.0						
Trichlorofluoromethane (11)	1.0	ND	1.0	ND	1.0						
1,1-Dichloroethene	1.0	ND	1.0	ND	1.0						
1,1,2-Cl 1,2,2-F ethane (113)	1.0	ND	1.0	ND	1.0						
Methylene Chloride	1.0	ND	1.0	ND	1.0						
1,1-Dichloroethane	1.0	ND	1.0	ND	1.0						
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0						
Chloroform	1.0	ND	1.0	ND	1.0						
1,1,1-Trichloroethane	1.0	ND	1.0	ND	1.0						
Carbon Tetrachloride	1.0	ND	1.0	ND	1.0						
Benzene	1.0	ND	1.0	ND	1.0						
1,2 Dichloroethane	1.0	ND	1.0	ND	1.0						
Trichloroethene	1.0	ND	1.0	ND	1.0						
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0						
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0						
Toluene	1.0	2.4	1.0	2.0	1.0						
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0						
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0						
Tetrachloroethene	1.0	ND	1.0	ND	1.0						
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0						
Chlorobenzene	1.0	ND	1.0	ND	1.0						
Ethylbenzene	1.0	1.6	1.0	ND	1.0						
p,&m-Xylene	1.0	10	1.0	1.6	1.0						
o-Xylene	1.0	8.5	1.0	ND	1.0						
Styrene	1.0	ND	1.0	ND	1.0						
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0						
1,3,5-Trimethylbenzene	2.0	21	2.0	ND	2.0						
1,2,4-Trimethylbenzene	2.0	18	2.0	ND	2.0						
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0						
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0						
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0						
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0						
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0						

PQL = Practical Quantitation Limit
ND= Not Detected (below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 9-14-05

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 050909MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	09/09/05		09/09/05		09/09/05						
Data File ID:	09SEP005.D		09SEP003.D		09SEP004.D						
Analyst Initials:	JM		JM		JM						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.0	100	10.4	104	3.4	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.2	102	9.8	98	3.9	70	130	30	Pass
Trichloroethene	0.0	10.0	8.9	89	8.6	86	3.6	70	130	30	Pass
Toluene	0.0	10.0	8.7	87	8.5	85	2.1	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.5	85	8.4	84	1.0	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson

Date: 9-14-05

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: Del Mar Analytical, Irvine
Attn: Lisa Reightley

Client's Project: IOI0586
Date Received: 9/9/2005
Matrix: Air
Units: ppmv

EPA Method TO-3 (TVPH as Gasoline)

Lab No.:		A5090904-01		A5090904-02							
Client Sample I.D.:		IOI0586-01		IOI0586-02							
Date Sampled:		9/8/2005		9/8/2005							
Date Analyzed:		9/9/2005		9/9/2005							
Analyst Initials:		DT		DT							
Data File:		09sep017		09sep012							
QC Batch:		050909GC11A1		050909GC11A1							
Dilution Factor:		1.0		1.0							
ANALYTE	PQL	RL	Results	RL	Results						
TVPH as Gasoline	1.0	1.0	10	1.0	2.1						

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: Mark J. Johnson
Operations Manager

Date: 9-14-05

The cover letter is an integral part of this analytical report.

QC Batch No.: 050909GC11A1
Matrix: Air
Units: ppmv

QC for EPA Method TO-3 (TVPH as Gasoline)

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		09/09/05		09/09/05		09/09/05			
Analyst Initials:		DT		DT		DT			
Gasoline Datafile:		09sep010		09sep001		09sep002			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
TVPH as Gasoline	1.0	1.0	ND	89	70-130%	92	70-130%	3.7	<30

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date: 9-14-05
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

Client: Del Mar Analytical, Irvine
Attn: Lisa Reightley

Client's Project: IOI0586
Date Received: 9/9/2005
Matrix: Air
Units: % v/v

ASTM D1946 Fixed Gases

Lab No.:		A5090904-01		A5090904-02	
Client Sample I.D.:		IOI0586-01		IOI0586-02	
Date Sampled:		9/8/2005		9/8/2005	
Date Analyzed:		9/10/2005		9/10/2005	
Analyst Initials:		DT		DT	
Data File:		09sep034		09sep030	
QC Batch:		A50909GC8A2		A50909GC8A2	
Dilution Factor:		1.0		1.0	
ANALYTE	PQL	RL	Results	RL	Results
Oxygen/Argon	0.50	0.50	17	0.50	21
Nitrogen	1.0	1.0	64	1.0	77
Methane	0.0010	0.0010	ND	0.0010	ND
Carbon Dioxide	0.010	0.010	0.062	0.010	0.037

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: Mark J. Johnson
Operations Manager

Date: 9-14-05

The cover letter is an integral part of this analytical report.

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

AirTECHNOLOGY Laboratories, Inc.
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Released By	Date	Time	Received By	Date	Time
Released By	Date	Time	Received By	Date	Time

QC Batch No.: 050909GC8A2
Matrix: Air
Units: % v/v

QC for ASTM D1946 Fixed Gases

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		09/09/05		09/09/05		09/09/05			
Analyst Initials:		DT		DT		DT			
Datafile:		08jun019		09sep026		09sep027			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Oxygen/Argon	0.50	0.50	ND	97	70-130%	97	70-130%	0.2	<30
Nitrogen	1.0	1.0	ND	99	70-130%	99	70-130%	0.1	<30
Methane	0.0010	0.0010	ND	86	70-130%	84	70-130%	2.5	<30
Carbon Dioxide	0.010	0.010	ND	96	70-130%	97	70-130%	1.6	<30

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: Mark J. Johnson
Operations Manager

Date: 9-14-05

The cover letter is an integral part of this analytical report.

Del Mar Analytical

17461 Derian Ave. Suite 100, Irvine, CA 92614 Ph (949) 261-1022 Fax (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 Ph (909) 370-4667 Fax (909) 370-1046
9484 Chesapeake Drive, Suite 805, San Diego, CA 92123 Ph (619) 505-9596 Fax (619) 505-9689
9830 South 51st Street, Suite B-120, Phoenix, AZ 85044 Ph (480) 785-0043 Fax (480) 785-0851
2520 E. Sunset Rd., Suite #3, Las Vegas, NV 89120 Ph (702) 798-3620 Fax (702) 798-3621

SUBCONTRACT ORDER - PROJECT # IOI0586

SENDING LABORATORY:
Del Mar Analytical, Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 261-1228
Project Manager: Lisa Reightley

RECEIVING LABORATORY:
Air Technology Lab - SUB
18501 E. Gale Avenue, Suite #130
City of Industry, CA 91748
Phone :(626)964-4032
Fax: (626) 964-5832

Standard TAT is requested unless specific due date is requested => Due Date:_____ Initials:_____

Analysis	Expiration	Comments	A5090904
Sample ID: IOI0586-01 Air	**Sampled: 09/08/05 11:48**		
Fixed Gases	09/11/05 11:48	Sub ATL. BP/ARCO project.	20X
TO-14	09/22/05 11:48	Sub ATL. BP/ARCO project.	
TO-3	09/22/05 11:48	Sub ATL. BP/ARCO project. Need TVPH-C4-C12.	-01
Containers Supplied:			
Tedlar Bag (IOI0586-01A)			
Sample ID: IOI0586-02 Air	**Sampled: 09/08/05 11:50**		
Fixed Gases	09/11/05 11:50	Sub ATL. BP/ARCO project.	
TO-14	09/22/05 11:50	Sub ATL. BP/ARCO project.	
TO-3	09/22/05 11:50	Sub ATL. BP/ARCO project. Need TVPH-C4-C12.	-02
Containers Supplied:			
Tedlar Bag (IOI0586-02A)			

SAMPLE INTEGRITY:

All containers intact: ☐ Yes ☐ No Sample labels/COC agree: ☐ Yes ☐ No Samples Received On Ice:: ☐ Yes ☐ No
Custody Seals Present: ☐ Yes ☐ No Samples Preserved Properly: ☐ Yes ☐ No Samples Received at (temp): _____

Released By	Date	Time	Received By	Date	Time
[signature]	9/9/05		[signature]	9/9/05	1535

Appendix B
Groundwater Sampling Field Data Sheets

Subjective and Well -Head Evaluation Form

Project No.: Q3-2005 Groundwater Location: Los Angeles Date: 8/19/2005

Station No.: 69 Field Technician: Shaun Day of Week: Friday

DTW ORDER	WELL ID	SURFICIAL SEAL	CONCRETE SEAL	LID SECURE	GASKET	LOCK	EXPANDING CAP	TOTAL DEPTH (feet)	TOTAL Depth at Sampling (feet)	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	DISSOLVED OXYGEN READING (mg/L)	COMMENTS
	MW-1	✓	✓	✓	✓	✓	✓	37.70	37.70	20.98	Ø	0.42	
	MW-2	✓	✓	✓	✓	✓	✓	32.80	34.00	20.74	Ø	0.51	
	MW-3	✓	✓	✓	✓	✓	✓	37.68	37.70	21.50	Ø	0.20	
	MW-5	✓	✓	✓	✓	✓	✓	27.00	27.00	20.51	Ø	0.56	dup
	MW-6	✓	✓	✓	✓	N	✓	33.20	33.20	21.22	Ø	0.84	
	MW-7							35.20	35.20	20.25	Ø	—	
	MW-8							34.63	34.55	—	Ø	—	unable to access due to street work & closure conditions

Note: Use G=Good and P=poor for well condition

GROUNDWATER SAMPLE FIELD DATA SHEET

ATLANTIC RICHFIELD COMPANY

PROJECT NO: Q3-2005 Groundwater	SAMPLE ID: MW-1
SAMPLER: Shaun	FACILITY NO: 69
DATE: 08/19/05	LOCATION: Los Angeles

CASING DIAMETER (inches) 2 3 (4) 6 8 12 OTHER:

DEPTH OF WELL (feet): 37.70	CALCULATED PURGE (gal): 33.44
DEPTH TO WATER (feet): 20.98	ACTUAL PURGE VOL (gal): 34
Standing Water in Casing (feet) 16.72 x 0.20= 3.344 + DTW 24.24 =80% Recharge Water Level	

2 (inches)	Standing Water in Casing (feet)	x 0.5=	3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	x 2.0=	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=	3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=	3 Casing Volumes (gal.)

Date Purged: 8/19/05 Start (2400 Hr.): 0929 End (2400 Hr.): 1005
Date Sampled: 8/19/05 Time (2400 Hr.): 1030 DTW @ Samp. Time: 24.20

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1): ~~DUP-MW-99~~

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) X1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
0932	11	75.4	1158	8.28	Clear	trace	
0939	22	74.6	1152	8.36	Clear	trace	
1005	34	77	1138	8.44	"	"	

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	Bailer (Teflon)
Submersible Pump	Bailer (Stainless Steel)	Dipper	Bailer (Disposable Teflon)
Redi-Flo2	Dedicated	Well Wizard	Dedicated

OTHER: VAC TRUCK	OTHER:

Well Condition (cap, cement, padlock, screws, lid, etc.):
Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS:

40 ml VOA, HCL: 4 1 liter amber, none: 16 ox poly, HNO3:
WATER LEVEL ONLY. NO SAMPLE COLLECTED: REVIEWED BY: DATE: ~~08/19/05~~ 8/22/05

Atlantic Richfield Company No. # 66

GROUNDWATER SAMPLE FIELD DATA SHEET

ATLANTIC RICHFIELD COMPANY	PROJECT NO: Q3-2005 Groundwater	SAMPLE ID: MW-2
	SAMPLER: Shaun	FACILITY NO: 69
	DATE: 08/19/05	LOCATION: Los Angeles

CASING DIAMETER (inches) 2 3 (4) 6 8 12 OTHER:

DEPTH OF WELL (feet): ~~32.80~~ 34.090	CALCULATED PURGE (gal): 26.52
DEPTH TO WATER (feet): 20.74	ACTUAL PURGE VOL (gal): 27
Standing Water in Casing (feet) 13.26 x 0.20= 2.652 + DTW 23.39 =80% Recharge Water Level	

2 (inches)	Standing Water in Casing (feet)	x 0.5=	3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	x 2.0=	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=	3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=	3 Casing Volumes (gal.)

Date Purged: 8/19/05 Start (2400 Hr.): 1007 End (2400 Hr.): 1045
Date Sampled: 8/19/05 Time (2400 Hr.): 1105 DTW @ Samp. Time: 22.91

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1):

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) X1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
1016	9	74.8	925.5	8.33	Clear	trace	
1028	18	77.9	884.6	8.22	Clear	trace	
1045	27	80.1	887.4	8.26	"	"	

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	Bailer (Teflon)
Submersible Pump	Bailer (Stainless Steel)	Dipper	Bailer (Disposable Teflon)
Redi-Flo2	Dedicated	Well Wizard	Dedicated
OTHER:	VAC TRUCK	OTHER:	

Well Condition (cap, cement, padlock, screws, lid, etc.):
Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS:

40 ml VOA, HCL: 4 1 liter amber, none: 16 ox poly, HNO3:

WATER LEVEL ONLY. NO SAMPLE COLLECTED: REVIEWED BY: Moreno DATE: ~~08/19/05~~ 8/22/05

Atlantic Richfield Company No. # 66

GROUNDWATER SAMPLE FIELD DATA SHEET

ATLANTIC RICHFIELD COMPANY	PROJECT NO: Q3-2005 Groundwater	SAMPLE ID: MW-3
	SAMPLER: Shaun	FACILITY NO: 69
	DATE: 08/19/05	LOCATION: Los Angeles

CASING DIAMETER (inches) 2 3 (4) 6 8 12 OTHER:

DEPTH OF WELL (feet): 37.70	CALCULATED PURGE (gal): 32.40
DEPTH TO WATER (feet): 21.50	ACTUAL PURGE VOL (gal): 33
Standing Water in Casing (feet) 16.20 x 0.20= 3.24 + DTW 24.74 =80% Recharge Water Level	

2	(inches)	Standing Water in Casing (feet)	x 0.5=	3 Casing Volumes (gal.)
4	(inches)	Standing Water in Casing (feet)	x 2.0=	3 Casing Volumes (gal.)
6	(inches)	Standing Water in Casing (feet)	x 4.4=	3 Casing Volumes (gal.)
8	(inches)	Standing Water in Casing (feet)	x 7.8=	3 Casing Volumes (gal.)

Date Purged: 8/19/05 Start (2400 Hr.): 0834 End (2400 Hr.): 0920

Date Sampled: 8/19/05 Time (2400 Hr.): 0935 DTW @ Samp. Time: 23.41

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1):

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) X1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
0856	11	67.8	4079	6.48	clear	Trace	
0913	22	71.7	1404	7.89	clear	trace	
0920	33	77.8	1201	7.31	"	"	

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	Bailer (Teflon)
Submersible Pump	Bailer (Stainless Steel)	Dipper	Bailer (Disposable Teflon)
Redi-Flo2	Dedicated	Well Wizard	Dedicated

OTHER: VAC TRUCK	OTHER:

Well Condition (cap, cement, padlock, screws, lid, etc.):

Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS:

40 ml VOA, HCL: 4 1 liter amber, none: 16 ox poly, HNO3:

WATER LEVEL ONLY. NO SAMPLE COLLECTED: REVIEWED BY: Moreno DATE: ~~08/19/05~~ 8/22/05

Atlantic Richfield Company No. # 66

GROUNDWATER SAMPLE FIELD DATA SHEET

ATLANTIC RICHFIELD COMPANY	PROJECT NO: Q3-2005 Groundwater	SAMPLE ID: MW-5
	SAMPLER: Shaun	FACILITY NO: 69
	DATE: 08/19/05	LOCATION: Los Angeles

CASING DIAMETER (inches) 2 3 (4) 6 8 12 OTHER:

DEPTH OF WELL (feet): 27.00	CALCULATED PURGE (gal): 12.98
DEPTH TO WATER (feet): 20.51	ACTUAL PURGE VOL (gal): 13
Standing Water in Casing (feet) 6.49 x 0.20= 1.298 + DTW 21.80 =80% Recharge Water Level	

2 (inches)	Standing Water in Casing (feet)	x 0.5=	3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	x 2.0=	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=	3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=	3 Casing Volumes (gal.)

Date Purged: 8/18/05 Start (2400 Hr.): 1048 End (2400 Hr.): 1117
Date Sampled: 8/19/05 Time (2400 Hr.): 1215 DTW @ Samp. Time: 20.51

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1): Dup - 0069 - 20050819

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) X1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
1050	5	77.9	1103	8.27	Clear	trace	
1113	10	77.4	1268	8.25	"	"	
1117	13	76.4	1280	7.93	"	"	

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	Bailer (Teflon)
Submersible Pump	Bailer (Stainless Steel)	Dipper	(Bailer (Disposable Teflon)
Redi-Flo2	Dedicated	Well Wizard	Dedicated

OTHER: (VAC TRUCK)	OTHER:

Well Condition (cap, cement, padlock, screws, lid, etc.):
Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS:

40 ml VOA, HCL: 8 1 liter amber, none: 16 ox poly, HNO3:

WATER LEVEL ONLY. NO SAMPLE COLLECTED: REVIEWED BY: Chase MO DATE: ~~08/19/05~~ 8/22/05

Atlantic Richfield Company No. # 66

GROUNDWATER SAMPLE FIELD DATA SHEET

ATLANTIC RICHFIELD COMPANY	PROJECT NO: Q3-2005 Groundwater	SAMPLE ID: MW-6
	SAMPLER: Shaun	FACILITY NO: 69
	DATE: 08/19/05	LOCATION: Los Angeles

CASING DIAMETER (inches) 2 3 (4) 6 8 12 OTHER:

DEPTH OF WELL (feet): 23.20	CALCULATED PURGE (gal): 23.96
DEPTH TO WATER (feet): 21.22	ACTUAL PURGE VOL (gal): 24
Standing Water in Casing (feet) 1.98 x 0.20= 0.396 + DTW 23.61 =80% Recharge Water Level	

2 (inches)	Standing Water in Casing (feet)	x 0.5=	3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	x 2.0=	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=	3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=	3 Casing Volumes (gal.)

Date Purged: 8/19/05 Start (2400 Hr.): 1155 End (2400 Hr.): 1214

Date Sampled: 8/19/05 Time (2400 Hr.): 1240 DTW @ Samp. Time: 21.22

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1):

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) X1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
1200	8	80.0	2144	7.96	clear	Trace	
1205	16	76.8	2278	8.10	"	"	
1214	24	75.3	2302	8.12	"	"	

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	~~Bailer (Teflon)~~
Submersible Pump	Bailer (Stainless Steel)	Dipper	Bailer (Disposable Teflon)
Redi-Flo2	Dedicated	Well Wizard	Dedicated

OTHER: VAC TRUCK	OTHER:

Well Condition (cap, cement, padlock, screws, lid, etc.):

Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS:

40 ml VOA, HCL: 4 1 liter amber, none: 16 ox poly, HNO3:

WATER LEVEL ONLY. NO SAMPLE COLLECTED: REVIEWED BY: Moreno DATE: ~~08/19/05~~ 8/22/05

Atlantic Richfield Company No. # 66

GROUNDWATER SAMPLE FIELD DATA SHEET

ATLANTIC RICHFIELD COMPANY	PROJECT NO: Q3-2005 Groundwater	SAMPLE ID: MW-7
	SAMPLER: Shaun	FACILITY NO: 69
	DATE: 08/19/05	LOCATION: Los Angeles

CASING DIAMETER (inches) 2 3 (4) 6 8 12 OTHER:

DEPTH OF WELL (feet): 35.20	CALCULATED PURGE (gal): 28.80
DEPTH TO WATER (feet): 20.25	ACTUAL PURGE VOL (gal): 30
Standing Water in Casing (feet) 14.95 x 0.20= 2.99	+ DTW 23.24 =80% Recharge Water Level

2 (inches)	Standing Water in Casing (feet)	x 0.5=	3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	x 2.0=	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=	3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=	3 Casing Volumes (gal.)

Date Purged: 8/19/05 Start (2400 Hr.): 1138 End (2400 Hr.): 1146

Date Sampled: 8/19/05 Time (2400 Hr.): 1200 DTW @ Samp. Time: 23.05

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1):

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) X1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
1138	10	78.5	1459	8.22	clear	Trace	
1142	20	75.4	1467	8.14	"	"	
1146	30	75.6	1458	8.10	"	"	

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	Bailer (Teflon)
Submersible Pump	Bailer (Stainless Steel)	Dipper	Bailer (Disposable Teflon)
Redi-Flo2	Dedicated	Well Wizard	Dedicated

OTHER: VAC TRUCK	OTHER:

Well Condition (cap, cement, padlock, screws, lid, etc.):

Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS:

40 ml VOA, HCL: 4 1 liter amber, none: 16 ox poly, HNO3:

WATER LEVEL ONLY. NO SAMPLE COLLECTED: REVIEWED BY: Moreno DATE: ~~08/19/05~~ 8/22/05

Atlantic Richfield Company No. # 66

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.F58259

TECHNICIAN	Initials: Tony Mickelson	Date: 7-7-05		Weekday: Thurs		Time: 800	
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	17938.7	Alarms:	none		
UTILITIES	Gas Meter	1085	cfm / therm	Electrical Meter	68775	KWh	

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1452 °F		Catalytic/Outlet: 1445 °F				
Dilution Valve	Auto: Closed %open		Manual: open 1/4 %open				
Blower	Amps: 19.2 A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK?	Yes/No
Process Flow	scfm			Manifold Vacuum.:	52" "H_2O		
Source Well Flow (Pitot Tube)	P: in H_2O	DP: in H_2O	Temp.: °F	Source Flow:	156 cfm		
Effluent Flow	P: in H_2O	DP: in H_2O	Temp.: °F	Effluent Flow:	scfm		
LEL Reading	Set %		PV %				
VES Process Concentrations	Influent w/dil: ppm	Influent w/o dil: diluted ppm		Effluent 0 ppm			
Monitoring Device	Mini RAE 2000		Calibration (type/date) Hexane impingement - 7-7-05				

VAPOR EXTRACTION WELLS

Pid reading express as Hexane

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	Open	52"	415					
MW-5	Open	52"	289					
MW-3	Closed	-	-					
MW-2	Closed	-	-					
V-4 Low	Closed	-	-					
V-4 High	Closed	-	-					
MW-1	Closed	-	-					
V-1 Low	Closed	-	-					
V-1 High	Open	52"	311					
V-1 Mid	Open	52"	128					
V-3 Low	Open	52"	176					
V-3 High	Open	52"	20.9					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <67 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution	Yes/No	Influent w/o Dilutio	Yes/No	Effluent: Yes/No
STATUS DEPARTURE:	ON/OFF		Drums:	2 empty	full

Notes: List all activities, observations, recommendations

Started system took samples for the month

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.F58259

TECHNICIAN	Initials: Tony Mickelson	Date:	7-14-05	Weekday:	Thurs	Time:	1100
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	18108.8	Alarms:	None		
UTILITIES	Gas Meter	2097	cfm / therm	Electrical Meter	696604		KWh

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1452 °F		Catalytic/Outlet: 1446 °F		
Dilution Valve	Auto: Closed %open		Manual: Open 1/4 %open		
Blower	Amps: 22.6 A	Lubricate? Yes/No	Change Oil? Yes/No	Belts OK? Yes/No	
Process Flow	scfm		Manifold Vacuum.: 71" "H_2O		
Source Well Flow (Pitot Tube)	P: in H_2O	DP: in H_2O	Temp.: °F	Source Flow: 149 cfm	
Effluent Flow	P: in H_2O	DP: in H_2O	Temp.: °F	Effluent Flow: scfm	
LEL Reading	Set %		PV %		
VES Process Concentrations	Influent w/dil: 364 ppm	Influent w/o dil: diluted ppm		Effluent 0 ppm	
Monitoring Device	Mini RAE 2000		Calibration (type/date) Hexane-propane 7-14		

VAPOR EXTRACTION WELLS

Pid reading express as Hexane

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	open	71"	218					
MW-5	open	71"	247					
MW-3	Closed	-	-					
MW-2	Closed	-	-					
V-4 Low	Closed	-	-					
V-4 High	Closed	-	-					
MW-1	Closed	-	-					
V-1 Low	Closed	-	-					
V-1 High	Closed	-	-					
V-1 Mid	Closed	-	-					
V-3 Low	open	71"	156					
V-3 High	open	71"	171					

COMPLIANCE	
DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED	
VES Flow Rate <250 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <67 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/Dilution Yes/No	Influent w/o Dilutic Yes/No	Effluent: Yes/No		
STATUS DEPARTURE:	ON/OFF		Drums: 2 empty	full	

Notes: List all activities, observations, recommendations

System was on Closed V-1 High and V-1 Mid to pull more out of MW-5. Trained Scott McKnew on site procedures, shut system off to complete cycle.

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tony Mickelson	Date: 7-20-05	Weekday: Wed	Time: 940			
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS: 18108.9	Alarms: None				
UTILITIES	Gas Meter: 2097	cfm / therm	Electrical Meter	69605	KWh		

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1457 °F		Catalytic/Outlet: 1442 °F				
Dilution Valve	Auto: Close	%open	Manual: 1/4 %open				
Blower	Amps: 72.7 A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK?	Yes/No
Process Flow	scfm		Manifold Vacuum.: 70" "H_2O				
Source Well Flow (Pitot Tube)	P: in H_2O	DP: in H_2O	Temp.: °F	Source Flow: 148 cfm			
Effluent Flow	P: in H_2O	DP: in H_2O	Temp.: °F	Effluent Flow: scfm			
LEL Reading	Set %		PV %				
VES Process Concentrations	Influent w/dil: 219 ppm		Influent w/o dil: Diluted ppm		Effluent 0 ppm		
Monitoring Device	Mini RAE 2000		Calibration (type/date) Hexane 100ppm 7-20				

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	open	70	196					
MW-5	open	70	124					
MW-3	Close	-	-					
MW-2	Close	-	-					
V-4 Low	Close	-	-					
V-4 High	Close	-	-					
MW-1	Close	-	-					
V-1 Low	Close	-	-					
V-1 High	Close	-	-					
V-1 Mid	Close	-	-					
V-3 Low	open	70	141					
V-3 High	open	70	179					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution	Yes/No	Influent w/o Dilutic	Yes/No	Effluent:	Yes/No

STATUS DEPARTURE:	ON/OFF	Drums: 2	empty	full	

Notes: List all activities, observations, recommendations

RESTARTED

System is running with no problems departure

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)
TECHNICIAN	Initials: Tony Kakom; Date: 7-27-05; Weekday: Wed; Time: 1028		
ARRIVAL STATUS:	ON/OFF; OPERATING HOURS: 18276.9; Alarms: None		
UTILITIES	Gas Meter: 3896 cfm / therm	Electrical Meter: 70434 KWh	

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1459 °F	Catalytic/Outlet: 1149 °F	
Dilution Valve	Auto: Closed %open	Manual: 1/4 %open	
Blower	Amps: 23.4 A; Lubricate? Yes/No	Change Oil? Yes/No	Belts OK? Yes/No
Process Flow	scfm	Manifold Vacuum.: 72" "H_2O	
Source Well Flow (Pitot Tube)	P: in H_2O; DP: in H_2O; Temp.: °F	Source Flow: 147 cfm	
Effluent Flow	P: in H_2O; DP: in H_2O; Temp.: °F	Effluent Flow: scfm	
LEL Reading	Set %	PV %	
VES Process Concentrations	Influent w/dil: 187 ppm	Influent w/o dil: diluted ppm	Effluent 0 ppm
Monitoring Device	Mini RAE	Calibration (type/date) Hexane bottle 7-27	

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	open	72"	142					
MW-5	open	72"	191					
MW-3	closed	-	-					
MW-2	closed	-	-					
V-4 Low	closed	-	-					
V-4 High	closed	-	-					
MW-1	closed	-	-					
V-1 Low	closed	-	-					
V-1 High	closed	-	-					
V-1 Mid	closed	-	-					
V-3 Low	open	72"	149					
V-3 High	open	72"	171					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution Yes/No	Influent w/o Dilution Yes/No	Effluent: Yes/No

STATUS DEPARTURE:	ON/OFF	Drums: 2	empty / full

Notes: List all activities, observations, recommendations

system was on with no problems shut system off on Departure

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tony Mickelson	Date: 8-3-05	Weekday: Wed	Time: 1104			
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS: 18276.9	Alarms: None, Restart				
UTILITIES	Gas Meter 3896 cfm / therm	Electrical Meter 70434 KWh					

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1456 °F	Catalytic/Outlet: 1442 °F					
Dilution Valve	Auto: Closed %open	Manual: 1/4 open %open					
Blower	Amps: 23.1 A	Lubricate? Yes/No	Change Oil? Yes/No	Belts OK? Yes/No			
Process Flow	scfm	Manifold Vacuum.: 71" "H_2O					
Source Well Flow (Pitot Tube)	P: in H_2O	DP: in H_2O	Temp.: °F	Source Flow: 148 cfm			
Effluent Flow	P: in H_2O	DP: in H_2O	Temp.: °F	Effluent Flow: scfm			
LEL Reading	Set %	PV %					
VES Process Concentrations	Influent w/dil: 129 ppm	Influent w/o dil: diluted ppm	Effluent 0 ppm				
Monitoring Device	Mini RAE 2000	Calibration (type/date) Hexane 100ppm 8-3-05					

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	open	71"	117					
MW-5	open	71"	194					
MW-3	closed	-	-					
MW-2	closed	-	-					
V-4 Low	closed	-	-					
V-4 High	closed	-	-					
MW-1	closed	-	-					
V-1 Low	closed	-	-					
V-1 High	closed	-	-					
V-1 Mid	closed	-	-					
V-3 Low	open	71"	152					
V-3 High	open	71"	129					

COMPLIANCE	
DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED	
VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution Yes/No	Influent w/o Dilutio Yes/No	Effluent: Yes/No		
STATUS DEPARTURE:	ON/OFF		Drums: 2 empty	full	

Notes: List all activities, observations, recommendations

Restarted system took samples, Cleaned site and addressed some Issues on site Audit.

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tony Mickelson	Date: 8-10-05	Weekday: Wed	Time: 800			
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS: 18442.5	Alarms: none				
UTILITIES	Gas Meter 4778 cfm / therm	Electrical Meter 71251 KWh					

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1452 °F	Catalytic/Outlet: 1440 °F					
Dilution Valve	Auto: Closed %open	Manual: 1/4 open %open					
Blower	Amps: 23.7 A	Lubricate? Yes/No	Change Oil? Yes/No	Belts OK? Yes/No			
Process Flow	scfm	Manifold Vacuum.: 70" "H_2O					
Source Well Flow (Pitot Tube)	P: in H_2O	DP: in H_2O	Temp.: °F	Source Flow: 145 cfm			
Effluent Flow	P: in H_2O	DP: in H_2O	Temp.: °F	Effluent Flow: scfm			
LEL Reading	Set %	PV %					
VES Process Concentrations	Influent w/dil: 144 ppm	Influent w/o dil: diluted ppm	Effluent 0 ppm				
Monitoring Device	Mini RAE	Calibration (type/date) Hexane 100ppm 8-10					

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	open	70	94.2					
MW-5	open	70	154					
MW-3	Closed	-	-					
MW-2	Closed	-	-					
V-4 Low	Closed	-	-					
V-4 High	Closed	-	-					
MW-1	Closed	-	-					
V-1 Low	Closed	-	-					
V-1 High	Closed	-	-					
V-1 Mid	Closed	-	-					
V-3 Low	open	70	178					
V-3 High	Open	70	141					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution Yes/No	Influent w/o Dilutio Yes/No	Effluent: Yes/No		
STATUS DEPARTURE:	ON/OFF	Drums: 2	empty	full	

Notes: List all activities, observations, recommendations

Shut system off on Departure

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tom Mickelson	Date:	8-18-05	Weekday:	Thurs	Time:	900
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	18442.8	Alarms:	None		
UTILITIES	Gas Meter	4778	cfm / therm	Electrical Meter	71251		KWh

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1448 °F		Catalytic/Outlet: 1438 °F				
Dilution Valve	Auto: closed %open		Manual: closed %open				
Blower	Amps: 24.1 A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK?	Yes/No
Process Flow	scfm		Manifold Vacuum.: 68 "H_2O				
Source Well Flow (Pitot Tube)	P: in H_2O	DP: in H_2O	Temp.: °F	Source Flow: 144 cfm			
Effluent Flow	P: in H_2O	DP: in H_2O	Temp.: °F	Effluent Flow: scfm			
LEL Reading	Set %		PV %				
VES Process Concentrations	Influent w/dil: 159 ppm	Influent w/o dil: diluted ppm	Effluent CO ppm				
Monitoring Device	Mini RAE		Calibration (type/date) Hexane 100ppm 8-15				

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	open	68	99.6					
MW-5	open	68	124					
MW-3	closed	-	-					
MW-2	closed	-	-					
V-4 Low	closed	-	-					
V-4 High	closed	-	-					
MW-1	closed	-	-					
V-1 Low	closed	-	-					
V-1 High	closed	-	-					
V-1 Mid	closed	-	-					
V-3 Low	open	68	256					
V-3 High	open	68	137					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution Yes/No	Influent w/o Dilutio Yes/No	Effluent: Yes/No		
STATUS DEPARTURE:	ON/OFF		Drums: 2	empty	full

Notes: List all activities, observations, recommendations

left system on.

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS:	9922 Figueroa St., Los Angeles, CA.	Permit/No:	SCAQMD Permit-to Operate No. 125584 (Various Location)

TECHNICIAN	Initials: T. Mickelson	Date:	8-26-05	Weekday:	Fri	Time:	1039
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	18514.7	Alarms:	low temp		
UTILITIES	Gas Meter: 4298 cfm / therm			Electrical Meter:	71574 KWh		

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1442 °F	Catalytic/Outlet: 1435 °F	
Dilution Valves	Auto: Close %open	Manual: 1/4 Close %open	
Blower	Amps: 25.1 A	Lubricate: Yes/No	Change Oil? Yes/No Belts OK? Yes/No
Process Flow	Flow: scfm	Manifold Vacuum: 66 "H_2O	
Source Well Flow (Pitot Tube)	Pitot: in.H_2O DP: in.H_2O Temp: °F	Source Flow: 148 cfm	
Effluent Flow	Pitot: in.H_2O DP: in.H_2O Temp: °F	Effluent Flow: scfm	
LEL Reading	Set: %	Fy: %	
VES Process Concentrations	Influent w/dil: 148 ppm	Influent w/o dil: diluted ppm	Effluent 0 ppm
Monitoring Device	mini RAE	Calibration (type/date) Hexane 10ppm 8-26	

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO	Status O/C	Vacuum (inc)	Conc (ppmv)	Flow (scfm)				
VE-6	open	68	85.4					
MW-5	open	68	156					
MW-3	close	-	-					
MW-2	close	-	-					
V-4 Low	close	-	-					
V-4 High	close	-	-					
MW-1	close	-	-					
V-1 Low	close	-	-					
V-1 High	close	-	-					
V-1 Mid	close	-	-					
V-3 Low	open	68	209					
V-3 High	open	68	155					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate ≥300 SCFM	Yes/No
Outlet Temperature ≥1400 °F	Yes/No
VES Outlet Concentration ≤20 PPMV	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/Dilution: Yes/No	Influent w/o Dilution: Yes/No	Effluent: Yes/No	
STATUS DEPARTURE	ON/OFF	Drums: 2 empty	full	

Notes: List all activities, observations, recommendations

started system took Readings and shut off system

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS:	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit-to Operate No. 125584 (Various Location)

TECHNICIAN	Initials:	Date:	9-2-05	Weekday:	Fri	Time:	1130
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	18514.4	Alarms:	none		
UTILITIES	Gas Meter:	4299	cfm / therm	Electrical Meter	71574		KWh

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1447 °F	Catalytic/Outlet: 1440	°F
Dilution Valve	Auto: closed %open	Manual: 1/4	%open
Blower	Amps: A	Lubricate? Yes/No	Change Oil? Yes/No Belts OK? Yes/No
Process Flow	scfm	Manifold Vacuum: 60	"H_2O
Source Well Flow (Pitot Tube)	P: in H_2O DP: in H_2O	Temp: °F	Source Flow: 148 cfm
Effluent Flow	P: in H_2O DP: in H_2O	Temp: °F	Effluent Flow: scfm
LEL Reading	Set: %	PV: %	
VES Process Concentrations	Influent w/dil: 27 ppm	Influent w/o dil: diluted ppm	Effluent 0 ppm
Monitoring Device	mini RAE	Calibration (type/date) Hexane 100ppm 9-2-05	

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("w)	Conc. (ppmv)	Flow (scfm)				
VE-6	open	66	89.7					
MW-5	open	60	177					
MW-3	closed	-	-					
MW-2	closed	-	-					
V-4 Low	closed	-	-					
V-4 High	closed	-	-					
MW-1	closed	-	-					
V-1 Low	closed	-	-					
V-1 High	closed	-	-					
V-1 Mid	closed	-	-					
VE-3 Low	open	60	376					
VE-3 High	open	60	124					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM	Yes/No
Outlet Temperature >1400 F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution: Yes/No	Influent w/o Dilution: Yes/No	Effluent: Yes/No		
STATUS DEPARTURE:	ON/OFF	Drums:	empty	full	

Notes: List all activities, observations, recommendations

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No:	SCAQMD Permit-to Operate No. 125584 (Various Location)

TECHNICIAN	Initials: T. Nickelson	Date: 9-8-05	Weekday: Thurs	Time: 1145			
ARRIVAL STATUS	ON/OFF	OPERATING HOURS: 18659.0	Alarms: none				
UTILITIES	Gas Meter: 5174 cfm / therm	Electrical Meter: 72137 KWh					

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1446 °F	Catalytic/Outlet: 1439 °F	
Dilution Valve	Auto: Closed %open	Manual: 1/4 open %open	
Blower	Amps: 25.2 A	Lubricate? Yes/No	Change Oil? Yes/No	Belts OK? Yes/No
Process Flow	scfm	Manifold Vacuum: 6" "H_2O	
Source Well Flow (Pitot tube)	P: in H_2O DP: in H_2O Temp: °F	Source Flow: 152 cfm	
Effluent Flow	P: in H_2O DP: in H_2O Temp: °F	Effluent Flow: scfm	
LEL Reading	Set: %	PV: %	
HVES Process Concentrations	Influent w/dil: 0.2 ppm	Influent w/o dil: diluted ppm	Effluent 0 ppm
Monitoring Device	Mini RAE	Calibration (type/date) Hexane / 100ppm 9-8	

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	open	60	59.4					
MW-5	open	60	178					
MW-3	closed	-	-					
MW-2	closed	-	-					
V-4 Low	closed	-	-					
V-4 High	closed	-	-					
MW-1	closed	-	-					
V-1 Low	closed	-	-					
V-1 High	closed	-	-					
V-1 Mid	closed	-	-					
V-3 Low	open	60	224					
V-3 High	open	66	109					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate >300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution: Yes/No	Influent w/o Dilution: Yes/No	Effluent: Yes/No
STATUS DEPARTURE	OK/FB	Drums: 2 empty	full

Notes: List all activities, observations, recommendations

Took samples for the month and shut system off

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: Tony Hickerson	Date:	9-15-05	Weekday:	Thurs	Time:	1120
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	18659.5	Alarms:	Restart		
UTILITIES	Gas Meter	5174	cfm / therm	Electrical Meter	72140		KWh

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1450 °F		Catalytic/Outlet: 1442 °F				
Dilution Valve	Auto: Closed %open		Manual: open 1/4 %open				
Blower	Amps: 25.1 A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK?	Yes/No
Process Flow	scfm		Manifold Vacuum.: 60" "H_2O				
Source Well Flow (Pitot Tube)	P: in H_2O	DP: in H_2O	Temp.: °F	Source Flow: 155 cfm			
Effluent Flow	P: in H_2O	DP: in H_2O	Temp.: °F	Effluent Flow: scfm			
LEL Reading	Set %		PV %				
VES Process Concentrations	Influent w/dil: 84.9 ppm		Influent w/o dil: diluted ppm		Effluent 0 ppm		
Monitoring Device	MiniRAE		Calibration (type/date) Hexane 100ppm - 9-15				

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	open	59"	48.5					
MW-5	open	59"	193					
MW-3	closed	-	-					
MW-2	closed	-	-					
V-4 Low	closed	-	-					
V-4 High	closed	-	-					
MW-1	closed	-	-					
V-1 Low	closed	-	-					
V-1 High	closed	-	-					
V-1 Mid	closed	-	-					
V-3 Low	open	59"	205					
V-3 High	open	59"	117					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution Yes/No	Influent w/o Dilutic Yes/No	Effluent: Yes/No
STATUS DEPARTURE:	ON/OFF	Drums: 2 empty	full

Notes: List all activities, observations, recommendations

Restarted system took readings and left system on.

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: T.M.Kelson	Date:	9.22.05	Weekday:	Thurs	Time:	1100
ARRIVAL STATUS:	ON/OFF	OPERATING HOURS:	18379.5	Alarms:	None		
UTILITIES	Gas Meter	5703	cfm / therm	Electrical Meter	77629		KWh

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1452 °F		Catalytic/Outlet: 1445 °F				
Dilution Valve	Auto: closed %open		Manual: 1/4 open %open				
Blower	Amps: 25.6 A	Lubricate?	Yes/No	Change Oil?	Yes/No	Belts OK?	Yes/No
Process Flow	scfm			Manifold Vacuum.:	62 "H_2O		
Source Well Flow (Pitot Tube)	P: in H_2O	DP: in H_2O	Temp.: °F	Source Flow:	157 cfm		
Effluent Flow	P: in H_2O	DP: in H_2O	Temp.: °F	Effluent Flow:	scfm		
LEL Reading	Set %		PV %				
VES Process Concentrations	Influent w/dil: 125 ppm		Influent w/o dil: diluted ppm		Effluent 0 ppm		
Monitoring Device	mini RAE		Calibration (type/date) Hexane/propane 9-22				

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	open	61	39.2					
MW-5	open	61	211					
MW-3	closed	-	-					
MW-2	closed	-	-					
V-4 Low	closed	-	-					
V-4 High	closed	-	-					
MW-1	closed	-	-					
V-1 Low	closed	-	-					
V-1 High	closed	-	-					
V-1 Mid	closed	-	-					
V-3 Low	open	61	253					
V-3 High	open	61	104					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	Yes/No
Outlet Temperature >1400 °F	Yes/No
VES Outlet Concentration <20 PPMV?	Yes/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution	Yes/No	Influent w/o Dilutio	Yes/No	Effluent: Yes/No
STATUS DEPARTURE:	ON/OFF		Drums:	2 empty	full

Notes: List all activities, observations, recommendations

System was off with no alarms started system on and left system on

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

SECOR International, Incorporated

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	Atlantic Richfield Company Station No. 0069	Unit:	Paragon Model # ET-250 Serial # 565
ADDRESS	9922 Figueroa St., Los Angeles, CA.	Permit No.:	SCAQMD Permit No.125584 (Various Location)

TECHNICIAN	Initials: R. Newberry	Date: 9-29-05	Weekday: THURS	Time: 9:00			
ARRIVAL STATUS:	(ON)/OFF	OPERATING HOURS: 18945	Alarms: —				
UTILITIES	Gas Meter 6780 cfm / therm	Electrical Meter 73254 KWh					

PARAGON SYSTEM OXIDIZER

Temperature	Process: 1428 °F	Catalytic/Outlet: 1418 °F				
Dilution Valve	Auto: ~~26.6~~ 0 %open	Manual: 0 %open				
Blower	Amps: 26.6 A	Lubricate? Yes/(No)	Change Oil? Yes/(No)	Belts OK? (Yes)/No		
Process Flow	scfm	Manifold Vacuum.: 66 "H_2O				
Source Well Flow (Pitot Tube)	P: in H_2O	DP: in H_2O	Temp.: °F	Source Flow: 146 cfm		
Effluent Flow	P: in H_2O	DP: in H_2O	Temp.: °F	Effluent Flow: scfm		
LEL Reading	Set %	PV %				
VES Process Concentrations	Influent w/dil: 150 ppm	Influent w/o dil: 150 ppm	Effluent 0 ppm			
Monitoring Device	PID	Calibration (type/date) 100 HEX , 9-29-05				

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Vacuum ("wc)	Conc. (ppmv)	Flow (scfm)				
VE-6	100	66	93.7					
MW-5	100	66	144					
MW-3	—	—	—					
MW-2	—	—	—					
V-4 Low	—	—	—					
V-4 High	—	—	—					
MW-1	—	—	—					
V-1 Low	—	—	—					
V-1 High	—	—	—					
V-1 Mid	—	—	—					
V-3 Low	100	66	196					
V-3 High	100	66	113					

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <300 SCFM?	(Yes)/No
Outlet Temperature >1400 °F	(Yes)/No
VES Outlet Concentration <20 PPMV?	(Yes)/No

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples	Influent w/ Dilution Yes/(No)	Influent w/o Dilutic Yes/(No)	Effluent: Yes/(No)			
STATUS DEPARTURE:	(ON)/OFF	Drums: 7 empty	full			

Notes: List all activities, observations, recommendations

Did O.&M and collected data

All O&M activities must be conducted every seven days or sooner unless otherwise indicated by a "*(Monthly)*" note.

Appendix C
Waste Disposal Documents

NO. 2 ~~250507~~ 8 26810

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

NAME: BP West Coast Products LLC

GENERATING SITE: ARCO STATION # 0069

ADDRESS: P.O. Box 80249

9922 S. FIGUEROA AVENUE

CITY, STATE, ZIP: Rancho Santa Margarita, CA 92688

LOS ANGELES

PHONE NO.: (949) 753-5820

SITE CONTACT:

PROFILE NO.:

CONTAINERS: No. 1 GALLONS 171 Gallons WEIGHT

TYPE: [X] TANK TRUCK [ ] DUMP TRUCK [ ] DRUMS [ ] CARTONS [ ] OTHER

WASTE DESCRIPTION: NON-HAZARDOUS WATER

GENERATING PROCESS: GROUNDWATER SAMPLING

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. WATER		99-100%	4.		
2. TPH		< 1%	5.		
3.			6. BESI # 114528		

PROPERTIES: pH 7 [ ] SOLID [X] LIQUID [ ] SLUDGE [ ] SLURRY [ ] OTHER

HANDLING INSTRUCTIONS: WEAR APPROPRIATE PROTECTIVE CLOTHING

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Larry Moothart as Agent of BP West Coast Products LLC — TYPED OR PRINTED FULL NAME & SIGNATURE — DATE 08 / 19 /05

TRANSPORTER

NAME: NIETO AND SONS TRUCKING, INC.

EPA I.D. NO.:

ADDRESS: 1281 BREA CANYON ROAD

SERVICE ORDER NO.:

CITY, STATE, ZIP: BREA, CALIFORNIA 92821

PICK UP DATE: 08 / 19 /05

PHONE NO.: (714) 990-6855

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE 08 / 19 /05

TRUCK, UNIT, I.D. NO. X 256

TSD FACILITY

NAME: DeMenno Kerdoon

EPA I.D. NO.:

ADDRESS: 2000 N. Alameda Street

DISPOSAL METHOD: [ ] LANDFILL [X] RECYCLER

CITY, STATE, ZIP: Compton, CA 90222

Recycler

PHONE NO.: 310-537-7100

FAC# 69

ID# 35399

MIKE WASHS — TYPED OR PRINTED FULL NAME & SIGNATURE — DATE 08 /29 /05

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	
C/Q		RT/CD	HWDF NONE	

DISCREPANCY