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SECOND HALF 2009 JOINT SEMIANNUAL HYDROCARBON PLUME STATUS REPORT CORPUS CHRISTI SHIP CHANNEL INNER HARBOR AREA CORPUS CHRISTI, NUECES COUNTY, TEXAS

Prepared for

Corpus Christi Inner Harbor System Operators
Hess Corporation
CITGO Refining and Chemicals Company L.P.
Flint Hills Resources, LP
Valero Refining – Texas, L.P.
El Paso Merchant Energy-Petroleum Company

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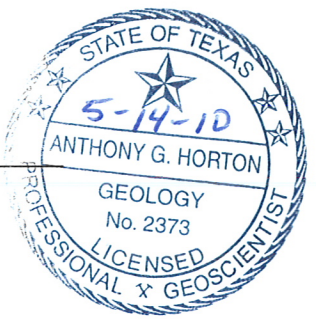
Project No. 2596



Anthony Horton, P.G.
Principal

May 14, 2010

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1.0 INTRODUCTION

The Texas Commission on Environmental Quality (TCEQ) requested in a letter dated December 12, 2006 that the identified system operators submit a proposal to provide joint semiannual groundwater monitoring status reports for the Corpus Christi Ship Channel Inner Harbor (CCIH) area. The CCIH area is shown on *Figure 1* and includes the following refineries and associated areas:

- Former Hess Terminal and Oak Park Triangle
- CITGO East Plant and Deep Sea Terminal
- Flint Hills Resources, LP - Mid Terminal
- Flint Hills Resources, LP – East Refinery
- Valero Bill Greehey East Plant, and
- Elementis Chromium Plant.

The system operators include Hess Corporation (Hess), CITGO Refining and Chemicals Company L.P. (CITGO), Flint Hills Resources, LP (Flint Hills), Valero Refining – Texas (Valero) and El Paso Merchant Energy-Petroleum Company (EPME-PC). EPME-PC has elected to act as project facilitator for the joint effort and will be working in conjunction with American Chrome & Chemical, LP (ACC) to provide the information related to the Elementis Chromium site.

Previous CCIH Semiannual Hydrocarbon Plume Status Reports (SASR) include data from the above referenced facilities and operators with the exception of Flint Hills East Refinery. Data from the Flint Hills East Refinery are incorporated into this and future SASRs at the request of the TCEQ. The inclusion of this facility expanded the review area to the east and added 116 wells to the tables and maps. The TCEQ approved an extension to the April 1, 2010 deadline to complete the inclusion.

The CCIH system operators selected Rosengarten, Smith & Associates, Inc. (RSA) to develop the requested proposal for the joint SASR, which was submitted on March 15, 2007. The

approved schedule for SASR submittal is April 1st and October 1st of each year. The reports are to include groundwater data collected in October and April of each year and fluid recovery data for the reporting period. The Flint Hills East Refinery is an exception to this schedule, as they gauge groundwater levels quarterly, and annually sample select monitoring and extraction wells during June of each year as required by their regulatory agreement with the TCEQ. The second and third quarter gauging results will be used in the corresponding SASRs to develop the potentiometric surface and the annual sampling results will be presented in both SASRs for comparison with the other operator data.

This *Second Half 2009 Joint Semiannual Hydrocarbon Plume Status Report* (Second Half 2009 SASR) summarizes the fluid gauging and analytical data collected in October 2009 herein referenced as the October 2009 monitoring event. However, please note that the Flint Hills East Refinery fluid gauging data is from their September 2009 quarterly gauging event and the analytical data used is from their June 2009 annual monitoring event as described above. The normal reporting period is July 1, 2009 to December 31, 2009. However, with this initial inclusion of Flint Hills Resources East Refinery, some data is outside the reporting period and is included at the request of the TCEQ. Eight temporary monitoring wells were installed in September 2009 in an area east of the Flint Hills East Refinery referred to as the Buffer Zone. Based on the data from the temporary wells, five permanent wells were installed in April 2010 at locations directed by the TCEQ along the Buffer Zone and the temporary wells were plugged and abandoned. The permanent wells were gauged and sampled April 9, 2010. The collected data is incorporated, but is not temporal with the October data from the other facilities.

2.0 WELL SURVEY DATA AND STATUS

The following subsections discuss the well survey data and the status of the wells as reported by the CCIH system operators.

2.1 Well Survey Data

The survey data obtained from each system operator are provided in *Table 1* and were used to plot the wells on *Figure 2*. A total of 962 wells were listed at the sites. These wells are divided among the CCIH system operators as follows:

System Operator	Listed		P&A'd		
Flint Hills – Mid Terminal	**25 wells**		**(0)**		
Flint Hills – East Refinery	**122 wells**		**(-8)**		
CITGO East Plant	**179 wells**		**(-12)**		
CITGO Deep Sea Terminal	**34 wells**		**(-1)**		
Valero Plants	**250 wells**		**(-65)**		
Elementis/EPME-PC	**255 wells**		**(-11)**		
Hess Terminal	**97 wells**		**(0)**		
Total	**962 wells**	**-**	**(97)**	**=**	**865 wells**

Survey data were not provided for some wells based on their current status or because they were recently installed and the survey data are not yet available. Information not readily identified will be researched and provided in future SASRs.

2.2 Well Status

The current status or use of each well is also provided in *Table 1*. Wells with no status or remarks are monitored during the semiannual events. Wells noted as RCRA or non-GMP wells are monitored under other regulatory programs or are not used for monitoring. A total of 97 wells have been plugged and abandoned, reducing the total number of existing wells to 865, as shown above. As additional information is obtained, the table will be updated in future SASRs.

3.0 FLUID GAUGING AND ANALYTICAL DATA

The following subsections summarize the monitoring results of the Second Half 2009 Semiannual Groundwater Sampling Events conducted by the individual CCIH system operators with the noted exception of Flint Hills East Refinery.

3.1 Fluid Level Gauging Data

A total of 667 wells were gauged by the CCIH system operators during the October 2009 monitoring event to obtain groundwater depths and the apparent thickness of any light non-aqueous phase liquids (LNAPL), if present. The gauging data from these wells are provided on *Table 2*. The wells are divided among the CCIH system operators as follows:

System Operator	Gauged	Contained LNAPL	Apparent Thickness
CITGO Deep Sea Terminal	**33 wells**	**19 wells**	**<0.01 to 2.44 feet**
CITGO East Plant	**112 wells**	**47 wells**	**<0.01 to 4.59 feet**
EPME-PC/Elementis	**184 wells**	**75 wells**	**0.01 to 10.04 feet**
Flint Hills Mid Terminal	**18 wells**	**6 wells**	**0.01 to 0.42 feet**
Flint Hills East Refinery	**120 wells**	**33 wells**	**0.01 to 2.40 feet**
Hess Facilities	**76 wells**	**45 wells**	**0.01 to 5.68 feet**
Valero Facilities	**124 wells**	**69 wells**	**0.01 to 10.00 feet**

The corrected groundwater elevations and the apparent LNAPL thickness data were used to construct the groundwater surface contour and LNAPL isopleth map provided as *Figure 3*. The groundwater contours show a groundwater divide in the area of the CITGO Deep Sea Terminal with groundwater gradients to the north, east and west that reflect the local topography, which drops toward the Corpus Christi Ship Channel. Gradients may vary in the areas with multiple recovery wells, which are generally not gauged. However, selected recovery wells were measured during the October 2009 sampling event, which allows some capture zones or cones of depression to be shown. Local groundwater flow paths and gradients are discussed in the individual annual or semiannual monitoring reports provided by each system operator.

The extent and apparent thickness of measured LNAPL are also presented on *Figure 3*. LNAPL was detected across the CCIH area in the thickness ranges shown above. Locations with the greatest thickness may represent source areas or may be the result of operating the extraction systems, which lowers the groundwater surface and allows a greater apparent thickness of LNAPL to accumulate for extraction.

The plume extent map was prepared by RSA from the provided data and represents a general overview of the October 2009 site conditions. Site-specific conditions are provided by the system operators in the individual annual or semiannual reports submitted to the TCEQ under various regulatory requirements. Any variance between these reports may be due to interpretation differences based on evaluation of the data provided, as well as possible differences in the dates the wells were gauged or sampled. The gauging and sampling dates are as follows:

System Operator	Gauging Dates	Sampling Dates
CITGO Deep Sea Terminal	**10/07/09**	**10/08/09**
CITGO East Plant	**10/01/09**	**10/20/09 – 10/28/09**
EPMEPC/Elementis	**10/13/09**	**10/14/09 – 10/16/09**
Flint Hills Mid Terminal	**10/01/09 – 10/05/09**	**10/01/09 – 10/05/09**
Flint Hills East Refinery	**09/01/09 – 09/28/09**	**06/02/09 – 06/25/09**
Flint Hills East Refinery Buffer Zone	**04/09/10**	**04/09/10**
Hess Facilities	**10/20/09**	**10/27/09 – 11/03/09**
Valero Facilities	**10/13/09**	**10/23/09 – 10/28/09**

As the joint effort develops through time, the reports should become more uniform. Portions of the CCIH area may still be under assessment and data from additional investigations will be included in future joint SASR reports, as it is developed.

3.2 Groundwater Benzene Analytical Results

The analytical results from groundwater sampled during the October 2009 monitoring event are presented in *Table 2* along with the gauging data. A total of 190 wells completed in the upper water-bearing zone were sampled for various chemicals of concern (COCs) along with several deeper zone wells. The data in this joint report is from the upper water-bearing unit only. The results from the deeper zone wells are provided in the individual reports submitted to the TCEQ. The hydrocarbon COC with the lowest action level is benzene and is therefore reported in the SASR to delineate the dissolved-phase plume in the upper water-bearing zone in the CCIH area. The benzene concentrations are mapped along with the LNAPL thickness on *Figure 3*.

Benzene concentrations range from concentrations less than the method quantitation limit (MQL) to 549 mg/l. The results indicate that a narrow halo is present along the edge of the LNAPL and within the non-detect areas where LNAPL was not identified.

4.0 FLUID RECOVERY SUMMARY

The fluid recovery volumes for the reporting period are provided on Table 3 for each of the seven facilities. LNAPL recovery volumes are reported as 357,789 gallons and groundwater volumes are reported as 16,734,666 gallons for a total fluid recovery of 17,092,455 gallons. The area wide LNAPL to total fluid-recovery efficiency ratio for this reporting period is 2.09%. Detailed discussion of individual well recovery volumes and system design are provided in the site-specific semiannual or annual monitoring reports provided by each facility.

Each operator has initiated recovery efforts with the earliest beginning in 1993 and the most recent in 2002. A total of 29,169,339 gallons of LNAPL have been recovered since efforts were initiated.

TABLES

Table 1
Well Status and Survey Data
Corpus Christi Inner Harbor Joint Semiannual Hydrocarbon Plume Status Report
April 2010

Well ID	Northing	Easting	TOC Elevation	Horizontal Datum	Survey Date	Data Source	Well Status / Remarks
Flint Hills Resources LP, East Refinery							
IH37-1	777255.77	2347407.15	25.33	NAD '27	03/10/04	FHR	Monitor Well
IH37-2	777398.20	2347597.08	24.18	NAD '27	03/10/04	FHR	Monitor Well
IH37-3	777353.05	2347144.92	23.74	NAD '27	03/10/04	FHR	Monitor Well
IH37-4	777528.06	2347225.11	23.59	NAD '27	03/10/04	FHR	Monitor Well
IH37-5	777442.90	2346847.26	23.42	NAD '27	03/10/04	FHR	Monitor Well
IH37-6	777590.56	2346991.06	24.07	NAD '27	03/10/04	FHR	Monitor Well
IH37-7	777280.72	2347172.19	23.09	NAD '27	03/10/04	FHR	Monitor Well
IH37-8	777221.24	2347400.70	24.27	NAD '27	03/10/04	FHR	Monitor Well
IH37-9	777108.48	2347737.04	25.21	NAD '27	03/10/04	FHR	Monitor Well
IH37-10	777265.98	2347848.65	24.36	NAD '27	03/10/04	FHR	Monitor Well
IH37-11	-2022.68	1278.95	23.10	NAD '27	03/10/04	FHR	Monitor Well
IH37-12	777491.05	2347997.27	23.39	NAD '27	03/10/04	FHR	Monitor Well
IH37-13	777662.75	2346724.64	24.72	NAD '27	03/10/04	FHR	Monitor Well
M-2	777622.81	2347812.19	23.73	NAD '27	08/18/02	FHR	Monitor Well
MW-1	779331.67	2346967.97	25.72	NAD '27	08/18/02	FHR	Monitor Well
MW-4	778717.98	2348431.78	27.50	NAD '27	06/25/08	FHR	Monitor Well
MW-6	779257.39	2347942.64	24.15	NAD '27	06/25/08	FHR	Monitor Well
MW-9	780499.75	2351081.19	6.01	NAD '27	06/25/08	FHR	Monitor Well
MW-10	777721.15	2347871.00	22.78	NAD '27	03/11/09	FHR	Monitor Well
MW-11	777724.81	2347745.85	22.72	NAD '27	03/11/09	FHR	Monitor Well
MW-13	777912.48	2347542.27	23.52	NAD '27	06/25/08	FHR	Monitor Well
MW-14	777702.76	2347407.19	25.78	NAD '27	10/24/05	FHR	Monitor Well
MW-16	777523.63	2347546.86	22.35	NAD '27	06/25/08	FHR	Monitor Well
MW-17	777475.07	2347616.00	22.49	NAD '27	06/25/08	FHR	Monitor Well
MW-18R	777611.62	2347308.79	24.99	NAD '27	06/25/08	FHR	Monitor Well
MW-19	777775.92	2347068.13	22.67	NAD '27	06/25/08	FHR	Monitor Well
MW-20	778052.06	2346715.77	23.41	NAD '27	06/25/08	FHR	Monitor Well
MW-22	777835.09	2348127.83	23.94	NAD '27	06/25/08	FHR	Monitor Well
MW-23	778012.31	2347951.18	23.64	NAD '27	06/25/08	FHR	Monitor Well
MW-24	777639.27	2348024.54	23.83	NAD '27	06/25/08	FHR	Monitor Well
MW-25R	778221.13	2347537.70	27.71	NAD '27	06/25/08	FHR	Monitor Well
MW-26	778440.50	2347998.80	21.57	NAD '27	06/25/08	FHR	Monitor Well
MW-27	777942.11	2348200.18	26.11	NAD '27	06/25/08	FHR	Monitor Well
MW-28R	778188.60	2348368.16	23.30	NAD '27	10/24/05	FHR	Monitor Well
MW-29R	778215.15	2348125.25	23.62	NAD '27	10/24/05	FHR	Monitor Well
MW-31	778281.69	2347169.84	24.36	NAD '27	06/25/08	FHR	Monitor Well
MW-32	778476.59	2347308.93	23.94	NAD '27	06/25/08	FHR	Monitor Well
MW-33	778399.76	2346973.78	25.54	NAD '27	06/25/08	FHR	Monitor Well
MW-34	778696.81	2347130.94	22.50	NAD '27	06/25/08	FHR	Monitor Well
MW-35	778773.09	2346989.41	23.14	NAD '27	06/25/08	FHR	Monitor Well
MW-36	778975.67	2346644.57	24.52	NAD '27	06/25/08	FHR	Monitor Well
MW-37	778890.82	2347255.69	25.73	NAD '27	06/25/08	FHR	Monitor Well
MW-38	778536.82	2347666.31	24.08	NAD '27	06/25/08	FHR	Monitor Well
MW-39	778588.38	2348034.83	22.87	NAD '27	06/25/08	FHR	Monitor Well
MW-51	778500.32	2346656.29	26.32	NAD '27	06/25/08	FHR	Monitor Well
MW-53	778829.40	2347769.58	23.82	NAD '27	06/25/08	FHR	Monitor Well
MW-55	780531.38	2348909.19	7.05	NAD '27	06/25/08	FHR	Monitor Well
MW-58	780623.62	2349020.71	8.97	NAD '27	06/25/08	FHR	Monitor Well
MW-60	780588.92	2348838.74	7.06	NAD '27	06/25/08	FHR	Monitor Well
MW-61	777467.88	2347798.52	22.63	NAD '27	06/25/08	FHR	Monitor Well
MW-62	777591.77	2347921.57	22.57	NAD '27	06/25/08	FHR	Monitor Well
MW-67	777909.06	2346806.09	26.07	NAD '27	06/25/08	FHR	Monitor Well
MW-68	777661.84	2347031.28	22.29	NAD '27	06/25/08	FHR	Monitor Well
MW-69	777533.63	2347393.10	22.88	NAD '27	06/25/08	FHR	Monitor Well
MW-73	777830.13	2346702.41	23.28	NAD '27	06/25/08	FHR	Monitor Well
MW-74	779048.25	2346875.00	11.73	NAD '27	06/25/08	FHR	Monitor Well
MW-76	781025.61	2350383.89	6.77	NAD '27	06/25/08	FHR	Monitor Well
MW-77	781399.06	2350614.89	11.48	NAD '27	06/25/08	FHR	Monitor Well
MW-78	780555.46	2351797.77	6.32	NAD '27	06/25/08	FHR	Monitor Well
MW-79	780458.51	2352080.43	11.11	NAD '27	06/25/08	FHR	Monitor Well
MW-80	780132.66	2351879.52	6.66	NAD '27	06/25/08	FHR	Monitor Well
MW-81	780373.27	2351882.70	6.48	NAD '27	06/25/08	FHR	Monitor Well

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MW-82	780851.75	2351063.57	10.15	NAD '27	06/25/08	FHR	Monitor Well
MW-85	780696.42	2350225.24	7.76	NAD '27	06/25/08	FHR	Monitor Well
MW-86	780888.47	2350829.20	6.72	NAD '27	06/25/08	FHR	Monitor Well
MW-87	780085.16	2350879.11	8.40	NAD '27	06/25/08	FHR	Monitor Well
MW-88	780777.86	2349913.99	11.10	NAD '27	06/25/08	FHR	Monitor Well
MW-89	781550.90	2349955.65	12.88	NAD '27	06/25/08	FHR	Monitor Well
MW-90	781669.51	2349821.26	9.51	NAD '27	10/24/05	FHR	Monitor Well
MW-91	781655.97	2349960.39	4.68	NAD '27	10/24/05	FHR	Monitor Well
MW-92	780550.27	2349795.03	11.21	NAD '27	10/24/05	FHR	Monitor Well
MW-93	781545.85	2349962.55	14.75	NAD '27	10/24/05	FHR	Monitor Well
MW-94	779451.43	2348306.06	28.06	NAD '27	10/24/05	FHR	Monitor Well
MW-95	779670.09	2347910.11	28.84	NAD '27	10/24/05	FHR	Monitor Well
MW-96	779140.46	2348805.31	25.13	NAD '27	10/24/05	FHR	Monitor Well
MW-97	781746.64	2349421.09	12.77	NAD '27	10/24/05	FHR	Monitor Well
MW-98	781276.23	2350151.91	10.22	NAD '27	10/24/05	FHR	Monitor Well
MW-99	781090.46	2351214.59	12.07	NAD '27	10/24/05	FHR	Monitor Well
MW-100	780725.99	2351363.27	7.96	NAD '27	10/24/05	FHR	Monitor Well
MW-101	790743.37	2351913.73	8.07	NAD '27	10/24/05	FHR	Monitor Well
MW-102	781182.30	2348519.99	8.47	NAD '27	10/24/05	FHR	Monitor Well
MW-103	779229.91	2347629.40	25.00	NAD '27	10/24/05	FHR	Monitor Well
MW-105	777599.99	2347649.70	23.31	NAD '27	06/25/08	FHR	Monitor Well
MW-106	777582.06	2347578.81	23.05	NAD '27	06/25/08	FHR	Monitor Well
MW-108	777574.06	2347631.21	23.96	NAD '27	10/24/05	FHR	Monitor Well
MW-110	777995.03	2347267.63	24.54	NAD '27	06/25/08	FHR	Monitor Well
MW-111	777828.27	2347238.29	23.35	NAD '27	06/25/08	FHR	Monitor Well
MW-112	781882.73	2348828.37	12.76	NAD '27	06/25/08	FHR	Monitor Well
MW-113	781960.21	2349186.73	13.74	NAD '27	06/25/08	FHR	Monitor Well
MW-114	781610.58	2349955.05	13.22	NAD '27	06/25/08	FHR	Monitor Well
MW-115	781134.84	2348695.39	7.23	NAD '27	03/11/09	FHR	Monitor Well
MW-116	781208.11	2249613.40	11.96	NAD '27	02/04/05	FHR	Monitor Well
MW-117	781111.31	2349633.67	4.28	NAD '27	02/04/05	FHR	Monitor Well
MW-118	17182029.62	1332414.33	25.21	NAD'83	04/05/10	Weston	Monitor Well
MW-119	17182567.98	1332735.89	25.53	NAD'83	04/05/10	Weston	Monitor Well
MW-120	17183068.78	1333551.23	25.86	NAD'83	04/05/10	Weston	Monitor Well
MW-121	17184057.69	1333630.01	20.01	NAD'83	04/05/10	Weston	Monitor Well
MW-122	17184153.53	1334744.80	9.73	NAD'83	04/05/10	Weston	Monitor Well
P-101	780179.24	2349291.86	8.98	NAD '27	06/25/08	FHR	Monitor Well - original
P-101	780179.14	2349292.00	12.25	NAD '27	02/16/09	FHR	Monitor Well- Added stick up
P-103	779743.53	2349263.33	14.10	NAD '27	06/25/08	FHR	Monitor Well
R-1	778022.62	2347965.12	22.62	NAD '27	06/25/08	FHR	Recovery Well
R-2	777804.84	2347800.12	21.86	NAD '27	06/25/08	FHR	Recovery Well
R-3	778219.56	2347737.64	25.50	NAD '27	06/25/08	FHR	Recovery Well
R-4	777593.15	2347564.62	22.66	NAD '27	06/25/08	FHR	Recovery Well
R-7	778143.94	2347491.98	26.69	NAD '27	06/25/08	FHR	Recovery Well
R-8	778217.71	2347172.10	24.07	NAD '27	06/25/08	FHR	Recovery Well
R-9	778727.71	2347211.33	23.39	NAD '27	06/25/08	FHR	Recovery Well
R-10	778390.74	2347613.66	27.89	NAD '27	06/25/09	FHR	Recovery Well
R-11	778328.45	2347997.20	22.82	NAD '27	06/25/08	FHR	Recovery Well
R-12	777940.31	2347063.40	25.85	NAD '27	06/25/08	FHR	Recovery Well
R-13	777616.94	2347239.84	24.32	NAD '27	06/25/08	FHR	Recovery Well
R-14	777500.36	2347678.90	26.84	NAD '27	06/25/08	FHR	Recovery Well
R-15	779041.42	2347330.91	24.57	NAD '27	06/25/08	FHR	Recovery Well
TMW-1	17182166.28	1332525.94	23.59	NAD '83	09/28/09	FHR	P&A'd
TMW-2	17182401.12	1332663.55	24.24	NAD '83	09/28/09	FHR	P&A'd
TMW-3	17182084.17	1332972.71	23.75	NAD '83	09/28/09	FHR	P&A'd
TMW-4	17182704.94	1332842.34	24.27	NAD '83	09/28/09	FHR	P&A'd
TMW-5	17181934.45	1333362.58	27.63	NAD '83	09/28/09	FHR	P&A'd
TMW-6	17183810.83	1334572.37	27.53	NAD '83	09/28/09	FHR	P&A'd
TMW-7	17184146.23	1334754.16	8.08	NAD '83	09/28/09	FHR	P&A'd
TMW-8	17184393.72	1334939.01	7.24	NAD '83	09/28/09	FHR	P&A'd

Table 1
Well Status and Survey Data
Corpus Christi Inner Harbor Joint Semiannual Hydrocarbon Plume Status Report
April 2010

Well ID	Northing	Easting	TOC Elevation	Horizontal Datum	Survey Date	Data Source	Well Status / Remarks
Flint Hills Resources LP, Mid Terminal							
DWT1	779885.64	2341557.08	39.67	NAD '27	08/28/06	FHR	Monitor Well
HC9	779345.85	2342131.82	40.37	NAD '27	08/28/06	FHR	Recovery Well
HC10	779245.66	2341596.93	37.85	NAD '27	08/28/06	FHR	Monitor Well
HC17	779929.71	2341582.45	39.35	NAD '27	08/28/06	FHR	Monitor Well
MWT1	779626.60	2342101.44	43.79	NAD '27	08/28/06	FHR	Monitor Well
MWT2	778943.55	2341999.83	40.79	NAD '27	08/28/06	FHR	Monitor Well
MWT3	779069.09	2341777.34	39.56	NAD '27	08/28/06	FHR	Monitor Well
MWT4	779833.80	2341837.71	42.72	NAD '27	08/28/06	FHR	Monitor Well
MWT5	779092.61	2342109.14	41.48	NAD '27	08/28/06	FHR	Recovery Well
MWT6	779522.79	2341804.97	39.09	NAD '27	08/28/06	FHR	Monitor Well
MWT7	779642.72	2341549.59	39.45	NAD '27	08/28/06	FHR	Monitor Well
MWT8	779852.69	779852.69	39.46	NAD '27	08/28/06	FHR	Monitor Well
MWT9	779848.44	2341612.11	39.39	NAD '27	08/28/06	FHR	Monitor Well
RW2-1	779858.65	2341548.06	37.09	NAD '27	08/28/06	FHR	Recovery Well
RW2-2	779789.38	2341523.12	39.88	NAD '27	08/28/06	FHR	Recovery Well
RW2-3	779704.13	2341496.23	39.87	NAD '27	08/28/06	FHR	Monitor Well
RW2-4	779631.52	2341469.89	39.72	NAD '27	08/28/06	FHR	Recovery Well
RW2-5	779558.51	234443.93	37.90	NAD '27	08/28/06	FHR	Recovery Well
RW2-6	779517.55	2341489.58	39.54	NAD '27	08/28/06	FHR	Recovery Well
RW2-7	779009.09	2341949.86	41.27	NAD '27	08/28/06	FHR	Recovery Well
RW2-8	778965.30	2342053.62	41.26	NAD '27	08/28/06	FHR	Recovery Well
RW2-9	779154.24	2342135.67	40.64	NAD '27	08/28/06	FHR	Recovery Well
RW2-10	779371.00	2342285.39	47.73	NAD '27	08/28/06	FHR	Recovery Well
RW2-11	779399.60	2341987.08	40.02	NAD '27	08/28/06	FHR	Recovery Well
RW2-12	779761.42	2341885.97	42.65	NAD '27	08/28/06	FHR	Monitor Well
CITGO East Plant							
D201	782401.71	2348830.43	5.12	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
D202	782395.74	2348821.57	5.04	NAD '27	06/13/08	Survey	GMP Recovery Well - Gauged & Sampled
D203	782391.99	2348816.14	5.12	NAD '27	06/13/08	Survey	GMP Recovery Well - Gauged & Sampled
D204	782386.91	2348809.64	5.15	NAD '27	06/13/08	Survey	GMP Recovery Well - Gauged & Sampled
D205	782375.82	2348795.13	4.95	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
D206	782370.19	2348789.08	5.02	NAD '27	06/13/08	Survey	GMP Recovery Well - Gauged & Sampled
D207	782365.01	2348781.39	5.35	NAD '27	06/13/08	Survey	GMP Recovery Well - Gauged & Sampled
DW01	781250.66	2347699.69	17.61	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW02R	780856.69	2345868.76	23.71	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW03	780441.69	2346187.42	28.16	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW04	779748.24	2346183.70	28.69	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW05	779003.91	2345832.90	27.78	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW06	778486.02	2346194.99	27.77	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW07	780903.17	2347072.29	20.50	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW08	780286.31	2349207.38	10.64	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW09	779926.35	2348030.95	28.23	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW10	779412.71	2346118.22	25.91	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW11	780423.01	2346977.34	25.02	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW12	780230.56	2348760.81	17.95	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW13	780008.90	2348442.64	28.91	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW14	780728.80	2348539.06	16.10	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW15	780586.13	2348118.15	24.60	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW16	780409.76	2347637.64	26.68	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW17	780326.10	2347316.52	27.23	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW18	780161.09	2347071.59	27.66	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW19	779988.63	2346655.77	25.16	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW20	780483.19	2348881.69	9.50	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW21	780251.92	2348216.30	27.40	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW22	780883.87	2348319.53	11.94	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW23	781021.77	2348076.55	10.42	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW24	781146.96	2347544.36	19.52	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW25	778336.28	2345935.85	28.83	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW26	779064.62	2347437.41	29.54	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW27	779515.98	2347716.45	28.60	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW28	780802.38	2346653.91	24.10	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW29	780292.47	2349195.69	10.55	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled

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Well ID	Northing	Easting	TOC Elevation	Horizontal Datum	Survey Date	Data Source	Well Status / Remarks
DW30	778449.24	2345773.20	28.34	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW31R	780856.68	2345858.75	23.99	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW32	780440.99	2346232.15	28.02	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW33	781442.05	2347242.85	20.55	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW34	781122.51	2345612.18	25.77	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW35	779824.94	2345865.06	28.94	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW36	781284.30	2345728.95	24.49	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW37	781371.85	2346186.38	23.85	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW38	781337.23	2346001.14	23.61	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW39	779592.09	2347590.67	27.43	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW40	779290.54	2347574.40	25.80	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW41	779714.69	2347831.10	25.39	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW42	780926.86	2348529.12	8.00	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW43	781129.10	2348136.97	5.64	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW44	781175.71	2348078.29	6.18	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DW45	780820.65	2347986.13	16.44	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DW46	780820.63	2347702.99	21.99	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
MW01	NR	NR	NR	NR	NR	NR	RCRA, Non-GMP, Sampled January & July
MW02	781708.62	2348307.30	8.46	NAD '27	NR	Survey	Non-GMP, not gauged or sampled
MW03	NR	NR	NR	NR	NR	NR	Non-GMP, not gauged or sampled
MW04	NR	NR	NR	NR	NR	NR	RCRA, Non-GMP, Sampled January & July
MW14	781251.34	2348225.94	9.19	NAD '27	NR	Survey	Non-GMP, not gauged or sampled
MW18	NR	NR	NR	NR	NR	NR	RCRA, Non-GMP, Sampled January & July
MW21	NR	NR	NR	NR	NR	NR	RCRA, Non-GMP, Sampled January & July
MW22	NR	NR	NR	NR	NR	NR	RCRA, Non-GMP, Sampled January & July
MW23	NR	NR	NR	NR	NR	NR	RCRA, Non-GMP, Sampled January & July
MW100	NR	NR	NR	NR	NR	NR	RCRA, Non-GMP, Sampled January & July
MW101	781430.40	2348353.16	9.65	NAD '27	NR	Survey	RCRA, Non-GMP, Sampled January & July
MW102	NR	NR	NR	NR	NR	NR	RCRA, Non-GMP, Sampled January & July
MW103	781452.36	2347226.70	20.93	NAD '27	07/06/05	Survey	RCRA & GMP Well - Gauged & Sampled
MW200	-	-	-	-	-	-	Offsite - Not Applicable
MW201	-	-	-	-	-	-	Offsite - Not Applicable
MW202	-	-	-	-	-	-	Offsite - Not Applicable
MW203	-	-	-	-	-	-	Offsite - Not Applicable
MW204	-	-	-	-	-	-	Offsite - Not Applicable
MW205	-	-	-	-	-	-	Offsite - Not Applicable
MW206R	778705.01	2346058.21	27.44	NAD '27	07/06/05	Survey	GMP Monitor Well - Gauged & Sampled
MW207	778900.18	2345998.07	26.44	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
MW208	781509.56	2348054.11	5.56	NAD '27	NR	Survey	RCRA, Non-GMP, Sampled January & July
MW209	781700.62	2348188.64	8.96	NAD '27	NR	Survey	RCRA, Non-GMP, Sampled January & July
MW210	NR	NR	NR	NR	NR	NR	RCRA, Non-GMP, Sampled January & July
MW211	NR	NR	NR	NR	NR	NR	Non-GMP, not guaged or sampled
MW212	778760.54	2345843.65	27.08	NAD '27	07/06/05	Survey	GMP Monitor Well - Gauged & Sampled
MW213	779041.22	2346181.80	27.72	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
MW214	778811.61	2346156.94	26.69	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
MW215	778923.70	2346114.52	28.32	NAD '27	07/06/05	Survey	GMP Monitor Well - Gauged & Sampled
MW216	779176.09	2346326.64	28.23	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
MW217	778950.95	2346476.20	29.43	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
MW218	779195.39	2346132.11	28.04	NAD '27	07/06/05	Survey	GMP Monitor Well - Gauged & Sampled
MW219	779311.30	2346453.97	27.61	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
MW220	779279.31	2346603.16	27.71	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
MW221	778750.59	2346372.33	28.36	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
MW222	779461.49	2346653.66	27.80	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
MW223	779774.47	2346910.63	27.97	NAD '27	06/28/07	Survey	GMP Observation Well - Gauged Only
MW224	779551.21	2347104.82	26.22	NAD '27	07/06/05	Survey	GMP Monitor Well - Gauged & Sampled
MW225	780012.69	2347159.81	29.22	NAD '27	07/06/05	Survey	GMP Monitor Well - Gauged & Sampled
MWM01	780150.88	2349046.77	15.93	NAD '27	06/28/07	Survey	GMP Observation Well - Gauged Only
MWP105	779505.81	2349103.09	22.40	NAD '27	07/06/05	Survey	GMP Monitor Well - Gauged & Sampled
MWSR1	779668.70	2348963.81	21.54	NAD '27	07/06/05	Survey	GMP Monitor Well - Gauged & Sampled
MWSR2	779888.02	2349079.80	15.82	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
MWSR3	779980.13	2349127.69	13.92	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
PL01	NR	NR	NR	NR	NR	NR	P&A'd
PL02	NR	NR	NR	NR	NR	NR	P&A'd

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Corpus Christi Inner Harbor Joint Semiannual Hydrocarbon Plume Status Report
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Well ID	Northing	Easting	TOC Elevation	Horizontal Datum	Survey Date	Data Source	Well Status / Remarks
PL03	NR	NR	NR	NR	NR	NR	P&A'd
PL04	NR	NR	NR	NR	NR	NR	P&A'd
PL05	NR	NR	NR	NR	NR	NR	P&A'd
PL05R	779994.61	2344999.34	26.38	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
PL06	779989.41	2345006.70	26.04	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
PL08	NR	NR	27.36	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
PL09	NR	NR	NR	NR	NR	NR	P&A'd
PL10	780194.04	2345005.16	25.87	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
PL11	NR	NR	NR	NR	NR	NR	P&A'd
PL11R	780218.58	2345356.37	26.62	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
PL12	779877.33	2345213.84	26.26	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
PL13	780031.63	2345630.15	25.52	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
PL14	NR	NR	NR	NR	NR	NR	P&A'd
PL14R	780217.45	2345367.35	26.46	NAD '27	06/28/07	Survey	GMP Observation Well - Gauged Only
PL15	NR	NR	NR	NR	NR	NR	P&A'd
PL16	779883.33	2345203.10	26.27	NAD '27	07/06/05	Survey	GMP Monitor Well - Gauged & Sampled
PL17	779869.38	2345473.55	26.31	NAD '27	07/06/05	Survey	GMP Monitor Well - Gauged & Sampled
PL18	779858.47	2345466.29	26.31	NAD '27	07/06/05	Survey	GMP Monitor Well - Gauged & Sampled
PL19	781152.71	2345618.16	25.04	NAD '27	07/06/05	Survey	GMP Monitor Well - Gauged & Sampled
PL20	NR	NR	NR	NR	NR	NR	P&A'd
PL21	780141.47	2345834.86	24.89	NAD '27	06/28/07	Survey	GMP Observation Well - Gauged Only
PL22	781142.01	2345616.94	25.35	NAD '27	07/06/05	Survey	GMP Monitor Well - Gauged & Sampled
PL23	NR	NR	NR	NR	NR	NR	P&A'd
PL24	780537.31	2345977.89	25.54	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
PL25	780533.44	2345986.30	25.55	NAD '27	07/06/05	Survey	GMP Monitor Well - Gauged & Sampled
PL26	780222.43	2346049.27	30.90	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
PL27	780174.17	2346345.72	25.26	NAD '27	07/06/05	Survey	GMP Monitor Well - Gauged & Sampled
PZ01	779202.24	2346538.90	26.90	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
PZ02	779183.89	2346547.80	26.78	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
RW01	779010.98	2346411.09	28.85	NAD '27	07/06/05	Survey	GMP Recovery Well - Gauged
RW02	779195.62	2346532.14	28.03	NAD '27	07/06/05	Survey	GMP Recovery Well - Gauged
RW03R	779646.35	2346759.58	27.43	NAD '27	07/06/05	Survey	GMP Recovery Well - Gauged
RW04R	779763.30	2346928.50	27.84	NAD '27	07/06/05	Survey	GMP Recovery Well - Gauged
RW05	780732.31	2348538.95	16.65	NAD '27	07/06/05	Survey	GMP Recovery Well - Gauged
RW06	780628.52	2348644.05	14.14	NAD '27	07/06/05	Survey	GMP Recovery Well - Gauged
RW07	780558.00	2348758.91	13.34	NAD '27	07/06/05	Survey	GMP Recovery Well - Gauged
RW08	780493.55	2348864.96	12.88	NAD '27	07/06/05	Survey	GMP Recovery Well - Gauged
RW09	778838.34	2346435.25	28.73	NAD '27	07/06/05	Survey	GMP Recovery Well - Gauged
RW10	779364.57	2346713.74	28.06	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
RW11	779851.20	2346899.13	28.50	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
RW12	779885.79	2346777.84	29.14	NAD '27	07/06/05	Survey	GMP Recovery Well - Gauged
RW13	780129.34	2345799.37	29.51	NAD '27	07/06/05	Survey	GMP Recovery Well - Gauged
RW14	780163.79	2345892.64	28.29	NAD '27	07/06/05	Survey	GMP Recovery Well - Gauged
RW15	780205.10	2346001.56	33.83	NAD '27	07/06/05	Survey	GMP Recovery Well - Gauged
RW16	780942.16	2348307.10	10.63	NAD '27	07/06/05	Survey	GMP Observation Well - Gauged Only
RW17	780887.86	2348314.05	11.21	NAD '27	07/06/05	Survey	GMP Recovery Well - Gauged
CITGO Deep Sea Terminal							
DST01	778643.63	2342423.47	43.84	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DST02	778479.93	2341681.00	43.53	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DST03R	778507.36	2342130.87	40.74	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DST04	778196.06	2342165.33	43.18	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DST05	779308.15	2342366.08	45.73	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DST06R	778394.32	2342335.71	41.23	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DST07	778895.28	2342556.10	41.27	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DST08	779239.55	2342717.43	45.72	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DST09	778953.17	2342122.20	43.48	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DSTPZ01	779056.19	2342585.10	44.56	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DSTPZ02	779070.25	2342568.72	44.13	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DSTRW01	778618.67	2342372.57	42.49	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DSTRW02	778754.95	2342469.36	44.68	NAD '27	06/13/08	Survey	GMP Recovery Well - Gauged
DSTRW03	NR	NR	NR	NR	NR	NR	P&A'd
DSTRW03R	779073.95	2342587.45	44.96	NAD '27	06/13/08	Survey	GMP Recovery Well - Gauged
DSTRW04	779290.30	2342405.18	46.05	NAD '27	06/13/08	Survey	GMP Recovery Well - Gauged

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DSTRW05	780190.56	2343130.88	45.01	NAD '27	06/13/08	Survey	GMP Recovery Well - Gauged
DSTRW06	778475.80	2342141.05	41.44	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DSTRW07	778650.37	2342161.06	42.58	NAD '27	06/13/08	Survey	GMP Recovery Well - Gauged
DSTRW08	778993.90	2342112.44	43.66	NAD '27	06/13/08	Survey	GMP Recovery Well - Gauged
DSTRW09	778747.48	2341891.37	41.45	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DSTRW10	779736.14	2342968.73	44.10	NAD '27	06/13/08	Survey	GMP Recovery Well - Gauged
P01	780197.63	2343122.17	42.52	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
P02	781019.33	2343187.85	31.43	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
P03	779907.73	2342632.13	41.75	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DSTDW01	779177.06	2341454.29	42.40	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DSTDW02	779745.49	2342973.91	43.89	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DSTDW03	780457.05	2342861.73	43.76	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DSTDW04	779014.86	2341679.74	40.32	NAD '27	06/13/08	Survey	GMP Observation Well - Gauged Only
DSTDW05	778351.60	2342105.66	42.73	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DSTDW06	780993.07	2343588.32	31.07	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DSTDW07	781019.74	2343387.25	31.56	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DSTDW08	778789.99	2341258.45	44.12	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
DSTDW09	780818.16	2343196.42	36.51	NAD '27	06/13/08	Survey	GMP Monitor Well - Gauged & Sampled
Valero Bill Greehey East Plant							
CS03	NR	NR	NR	NR	NR	Valero	P&A'd
CS07	NR	NR	NR	NR	NR	NR	P&A'd
CS08A	NR	NR	NR	NR	NR	Valero	P&A'd
CS09	782313.84	2343656.49	29.77	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
CS10	NR	NR	NR	NR	NR	NR	P&A'd
CS11	781117.59	2342392.55	36.00	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
CS13	NR	NR	NR	NR	NR	NR	P&A'd
CS14	780783.10	2342121.82	43.81	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
CS16	779640.16	2342362.66	45.23	NAD '27	07/25/05	Valero	Complex 8 South - Monitor Well
CS17	780284.07	2341661.74	41.49	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
CS18	779647.22	2341174.54	44.57	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
CS19	NR	NR	NR	NR	NR	NR	P&A'd
CS20	NR	NR	NR	NR	NR	NR	P&A'd
CS21	NR	NR	NR	NR	NR	NR	P&A'd
CS22	782442.94	2343591.53	30.00	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
CS23	781789.72	2343616.81	29.90	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
CS24	782742.31	2343716.71	30.28	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
CS25	782813.53	2343333.12	28.90	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
CS26	782545.83	2343219.32	29.16	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
CS27	NR	NR	NR	NR	NR	NR	P&A'd
CS28A	781870.18	2343234.07	25.83	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
DMW01	781510.61	2341018.26	29.14	NAD '27	07/25/05	Valero	Complex 7 - Monitor Well
DMW02	779834.48	2342457.10	44.11	NAD '27	07/25/05	Valero	Complex 8 South - Monitor Well
DMW03	782089.40	2343967.17	29.00	NAD '27	07/25/05	Valero	Complex 8 North - Monitor Well
DMWQ01	781179.30	2337130.90	11.12	NAD '27	07/25/05	Valero	Complex 6 - Monitor Well
DW01	NR	NR	NR	NR	NR	NR	P&A'd
DW02	780422.50	2340877.50	43.13	NAD '27	07/25/05	Valero	P&A'd
DW03	NR	NR	NR	NR	NR	NR	P&A'd
DW04	NR	NR	NR	NR	NR	NR	P&A'd
DW05	781228.69	2341141.55	39.54	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
DW06	780874.12	2340525.08	36.29	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
DW07	NR	NR	NR	NR	NR	NR	P&A'd
DW08	781019.06	2342719.49	37.84	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
DW09	NR	NR	NR	NR	NR	NR	P&A'd
DW10	779978.05	2341474.01	40.80	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
DW11	780362.91	2340471.02	42.34	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
DW12	NR	NR	NR	NR	NR	NR	P&A'd
DW13	NR	NR	NR	NR	NR	NR	P&A'd
DW14	781090.93	2339744.96	17.13	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
DW15	780592.85	2342296.61	42.02	NAD '27	07/25/05	Valero	P&A'd
DW16	779848.85	2341199.89	40.01	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
DW17	781326.76	2343625.77	29.83	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
DW18	NR	NR	NR	NR	NR	NR	P&A'd
DW19	NR	NR	NR	NR	NR	NR	P&A'd

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Well Status and Survey Data
Corpus Christi Inner Harbor Joint Semiannual Hydrocarbon Plume Status Report
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Well ID	Northing	Easting	TOC Elevation	Horizontal Datum	Survey Date	Data Source	Well Status / Remarks
DW20	781466.44	2340619.25	NR	NR	NR	Valero	P&A'd
DW21	NR	NR	NR	NR	NR	NR	P&A'd
DW22	781393.12	2340153.10	16.99	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
DW23	NR	NR	NR	NR	NR	NR	P&A'd
DW24	NR	NR	NR	NR	NR	NR	P&A'd
DW25	NR	NR	NR	NR	NR	NR	P&A'd
DW26	779655.50	2340977.92	44.64	NAD '27	07/25/05	Valero	Complex 8 South - Monitor Well
DW27	779986.47	2341050.61	43.71	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
DW28	NR	NR	NR	NR	NR	NR	P&A'd
DW29	780163.44	2341343.37	39.95	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
DW30	780257.17	2342249.58	44.84	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
DW31	780047.68	2342535.68	40.49	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
DW32	780613.48	2342849.16	39.80	NAD '27	07/25/05	Valero	Complex 8 South - Recovery Well
DW32P01	780622.65	2342852.73	39.48	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
DW32P02	780631.57	2342856.78	39.41	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
DW33	781010.70	2343032.61	35.79	NAD '27	07/25/05	Valero	Complex 8 South - Monitor Well
DW34	NR	NR	NR	NR	NR	NR	P&A'd
DW35	781371.40	2342773.65	28.41	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
DW36	781475.57	2342356.44	26.23	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
DW37	781522.76	2342160.65	24.95	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
DW38	NR	NR	NR	NR	NR	NR	P&A'd
DW39	780788.47	2341177.78	44.38	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
MW01	781239.19	2339401.45	12.62	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
MW02	NR	NR	NR	NR	NR	NR	P&A'd
MW03	NR	NR	NR	NR	NR	NR	P&A'd
MW04	NR	NR	NR	NR	NR	NR	P&A'd
MW05	NR	NR	NR	NR	NR	NR	P&A'd
MW06	NR	NR	NR	NR	NR	NR	P&A'd
MW07	780565.12	2340454.22	41.45	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
MW08	781163.44	2340364.76	28.25	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
MW09A	781161.51	2340037.25	18.56	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
MW10	780900.77	2339900.30	24.89	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
MW11	780072.09	2340410.85	45.42	NAD '27	07/25/05	Valero	Complex 7 - Monitor Well
MW12A	781171.24	2338887.40	14.50	NAD '27	07/25/05	Valero	Complex 7 - Monitor Well
MW13	779576.31	2339486.13	29.86	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
MW14	780135.38	2339848.41	37.49	NAD '27	07/25/05	Valero	Complex 7 - Monitor Well
MW15	779110.08	2340187.52	37.17	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
MW16	779483.88	2340706.50	NR	NR	NR	Valero	P&A'd
MW17	778799.98	2341009.07	42.40	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
MW18	781447.84	2343414.67	28.44	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
MW19	781322.40	2339846.22	14.45	NAD '27	07/25/05	Valero	Complex 7 - Monitor Well
MW20	781194.94	2339146.08	12.50	NAD '27	10/26/09	Valero	Complex 7 - Monitor Well
MW21	781513.90	2341128.73	30.36	NAD '27	07/25/05	Valero	Complex 7 - Monitor Well
MW22	781457.88	2341560.06	31.44	NAD '27	07/25/05	Valero	Complex 8 South - Monitor Well
MW23	781428.07	2341853.27	28.10	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
MW24	780172.11	2340616.24	46.11	NAD '27	08/29/08	Valero	Complex 7 - Monitor Well
MWQ01	780586.40	2336672.70	9.71	NAD '27	07/25/05	Valero	Complex 6 - Observation Well
MWQ02	781010.56	2336529.75	NR	NR	NR	Valero	P&A'd
MWQ02R	781024.69	2336525.80	9.79	NAD '27	07/25/05	Valero	Complex 6 - Observation Well
MWQ03	781333.77	2336692.11	7.77	NAD '27	07/25/05	Valero	Complex 6 - Monitor Well
MWQ04	781183.38	2337126.95	7.61	NAD '27	07/25/05	Valero	Complex 6 - Monitor Well
MWQ05	NR	NR	NR	NR	NR	NR	P&A'd
MWQ06	781030.55	2337403.58	11.65	NAD '27	07/25/05	Valero	Complex 6 - Monitor Well
MWQ07	781022.64	2338252.33	16.29	NAD '27	07/25/05	Valero	Complex 6 - Monitor Well
MWQ08	780325.73	2338175.19	25.80	NAD '27	07/25/05	Valero	Complex 6 - Monitor Well
MWQ09	780619.61	2336027.08	17.22	NAD '27	07/25/05	Valero	Complex 6 - Monitor Well
MWQ10	780467.54	2336275.88	15.67	NAD '27	07/25/05	Valero	Complex 6 - Monitor Well
MWQ11	780196.21	2336070.44	22.17	NAD '27	07/25/05	Valero	Complex 6 - Observation Well
MWQ12	780242.37	2335914.33	20.43	NAD '27	07/25/05	Valero	Complex 6 - Observation Well
MWQ13	780107.87	2336606.03	19.31	NAD '27	09/05/07	Valero	Complex 6 - Monitor Well
NO.01	781524.10	2342819.95	27.99	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
NO.02	NR	NR	NR	NR	NR	NR	P&A'd
NO.04	781401.04	2342970.15	26.93	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well

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Well ID	Northing	Easting	TOC Elevation	Horizontal Datum	Survey Date	Data Source	Well Status / Remarks
NO.08	NR	NR	NR	NR	NR	NR	P&A'd
RRP01	781570.82	2341157.29	24.03	NR	NR	Valero	P&A'd
RRP02	781654.01	2341047.69	15.55	NR	NR	Valero	PGA - Observation Well
RRP03	781509.86	2340608.28	19.38	NR	NR	Valero	PGA - Recovery Well
RRP04	781591.71	2340616.98	15.73	NR	NR	Valero	PGA - Recovery Well
RRP05	781430.20	2340144.49	13.25	NR	NR	Valero	PGA - Observation Well
RRP06	781490.39	2340137.88	12.48	NR	NR	Valero	PGA - Observation Well
RRP07	781630.12	2340745.89	16.09	NR	NR	Valero	PGA - Observation Well
RRP08	781617.19	2340677.77	16.26	NR	NR	Valero	PGA - Observation Well
RRP09	781585.38	2340452.80	13.87	NR	NR	Valero	PGA - Observation Well
RRP10	781571.23	2340389.37	13.03	NR	NR	Valero	PGA - Observation Well
RW01	781079.93	2340218.26	30.63	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
RW01A	781092.70	2340196.62	30.03	NAD '27	07/25/05	Valero	Complex 7 - Recovery Well
RW02	781393.35	2340136.94	17.24	NAD '27	07/25/05	Valero	Complex 7 - Recovery Well
RW03	781314.25	2340092.79	17.62	NAD '27	07/25/05	Valero	Complex 7 - Recovery Well
RW04	781296.74	2340054.79	17.72	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
RW05	NR	NR	NR	NR	NR	NR	P&A'd
RW06	780980.78	2340055.27	27.07	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
RW07	780913.41	2339919.38	24.30	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
RW08	781051.94	2340435.52	35.19	NAD '27	07/25/05	Valero	Complex 7 - Recovery Well
RW09	780821.92	2340591.84	37.56	NAD '27	07/25/05	Valero	P&A'd
RW10	NR	NR	NR	NR	NR	NR	P&A'd
RW11	NR	NR	NR	NR	NR	NR	P&A'd
RW12	NR	NR	NR	NR	NR	NR	P&A'd
RW13	NR	NR	NR	NR	NR	NR	P&A'd
RW15	780241.47	2342638.67	45.21	NAD '27	07/25/05	Valero	Complex 8 South - Recovery Well
RW16	NR	NR	NR	NR	NR	NR	P&A'd
RW17	781822.72	2343199.74	30.21	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW18	781961.39	2343380.97	29.21	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW19	NR	NR	NR	NR	NR	NR	P&A'd
RW20	NR	NR	NR	NR	NR	NR	P&A'd
RW21	NR	NR	NR	NR	NR	NR	P&A'd
RW22	781678.20	2342807.63	22.93	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW22P01	781687.81	2342814.42	23.28	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
RW22P02	781696.64	2342821.31	23.75	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
RW23	781517.41	2342572.32	23.92	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW24	781371.61	2341938.38	30.85	NAD '27	07/25/05	Valero	Complex 8 South - Recovery Well
RW24P01	781378.66	2341930.84	29.28	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
RW24P02	781391.03	2341931.60	28.51	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
RW25	781221.01	2341141.85	38.25	NAD '27	07/25/05	Valero	Complex 7 - Recovery Well
RW26	NR	NR	NR	NR	NR	NR	P&A'd
RW27	780575.97	2340455.17	41.24	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
RW28	781160.96	2340686.03	33.84	NAD '27	07/25/05	Valero	Complex 7 - Recovery Well
RW29	781392.24	2340146.38	17.18	NAD '27	07/25/05	Valero	Complex 7 - Observation Well
RW30	781423.14	2340399.38	24.09	NAD '27	07/25/05	Valero	Complex 7 - Recovery Well
RW31	781439.72	2340501.88	26.66	NAD '27	07/25/05	Valero	Complex 7 - Recovery Well
RW32	781451.63	2340628.25	NR	NR	NR	Valero	P&A'd
RW33	781472.13	2340736.75	NR	NR	NR	Valero	P&A'd
RW34	781499.09	2340892.86	27.44	NAD '27	07/25/05	Valero	P&A'd
RW35	780372.53	2341123.03	40.60	NAD '27	07/25/05	Valero	Complex 8 South - Recovery Well
RW35P01	780370.46	2341133.01	40.85	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
RW36	780797.25	2341429.75	NR	NR	NR	Valero	P&A'd
RW36P01	780792.25	2341422.75	NR	NR	NR	Valero	P&A'd
RW36P02	780787.69	2341414.50	NR	NR	NR	Valero	P&A'd
RW37	781506.91	2341050.60	28.71	NAD '27	07/25/05	Valero	Complex 7 - Recovery Well
RW38	780631.02	2341176.09	41.01	NAD '27	07/25/05	Valero	Complex 8 South - Recovery Well
RW38P01	780628.78	2341185.37	40.94	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
RW39	780927.06	2342137.21	42.32	NAD '27	07/25/05	Valero	Complex 8 South - Recovery Well
RW40	780338.01	2342716.40	44.28	NAD '27	07/25/05	Valero	Complex 8 South - Recovery Well
RW40P01	780331.88	2342713.77	43.68	NAD '27	07/25/05	Valero	Complex 8 South - Observation Well
RW41	782049.35	2343444.93	28.27	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW42	783036.05	2343547.93	28.88	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW43	782266.10	2343107.28	27.20	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well

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RW44	782916.21	2343869.09	27.92	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW44P01	782918.41	2343862.38	25.94	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
RW44P02	782920.76	2343854.87	26.65	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
RW45	782685.06	2344235.78	27.83	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW46	782432.98	2344142.06	28.60	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW47	782859.78	2344109.68	29.42	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW48	782829.56	2344289.38	27.73	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW49	782547.29	2344183.33	28.92	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW49P01	782534.14	2344178.31	28.31	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
RW50	782239.79	2344073.36	29.21	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW50P01	782240.99	2344071.93	26.07	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
RW50P02	782244.35	2344062.30	25.91	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
RW51	782060.96	2344009.66	29.53	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW52	781860.39	2343937.95	30.23	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW53	781941.65	2342970.84	24.11	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW54	781496.84	2342252.33	24.43	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW55	782479.89	2343605.58	30.13	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW56	781431.36	2341841.08	28.12	NAD '27	07/25/05	Valero	Complex 8 South - Recovery Well
RW57	780565.40	2341156.27	41.47	NAD '27	07/25/05	Valero	Complex 8 South - Recovery Well
RW58	783063.01	2343440.93	27.76	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW59	782976.11	2343658.85	28.58	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW59P01	782971.61	2343672.23	29.17	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
RW60	782954.38	2343728.61	28.41	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW61	782933.69	2343797.64	29.15	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW62	782899.76	2343953.43	28.56	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW63	782876.64	2344043.25	28.48	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW64	782837.49	2344196.22	27.16	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW64P01	782833.31	2344208.71	27.45	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
RW65	781671.27	2343870.50	29.16	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW65P01	782941.32	2344412.44	29.61	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
RW66	781484.71	2343804.00	29.33	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW67	781298.26	2343730.84	30.32	NAD '27	07/25/05	Valero	Complex 8 North - Recovery Well
RW67P01	782592.99	2344281.48	30.38	NAD '27	07/25/05	Valero	Complex 8 North - Observation Well
RW68	781071.71	2340317.32	31.92	NAD'27	08/29/08	Valero	Complex 7 Recovery Well
RW69	781505.22	2340980.80	28.49	NAD'27	11/06/09	Valero	Complex 7 - Recovery Well
RW70	781517.52	2341115.34	29.19	NAD'27	11/06/09	Valero	Complex 7 - Recovery Well
RW71	781418.21	2341192.52	31.64	NAD'27	11/06/09	Valero	Complex 7 - Recovery Well
RW72	781469.20	2341423.42	28.35	NAD'27	11/06/09	Valero	Complex 8 South - Recovery Well
RW73	781466.86	2341672.77	28.58	NAD'27	11/06/09	Valero	Complex 8 South - Recovery Well
RW74	781345.90	2342015.97	32.76	NAD'27	11/06/09	Valero	Complex 8 South - Recovery Well
RW75	781514.07	2342166.99	24.46	NAD'27	11/06/09	Valero	Complex 8 North - Recovery Well
RW76	781478.82	2342350.80	25.40	NAD'27	11/06/09	Valero	Complex 8 North - Recovery Well
RW77	781472.65	2342444.98	25.39	NAD'27	11/06/09	Valero	Complex 8 North - Recovery Well
RW78	781458.24	2342506.45	25.04	NAD'27	11/06/09	Valero	Complex 8 North - Recovery Well
RW79	781497.48	2342592.41	28.13	NAD'27	11/06/09	Valero	Complex 8 North - Recovery Well
RW80	781510.25	2342654.98	28.21	NAD'27	11/06/09	Valero	Complex 8 North - Recovery Well
RW81	780696.26	2341392.46	38.38	NAD'27	11/06/09	Valero	Complex 8 South - Recovery Well
RW82	780536.80	2341486.48	34.19	NAD'27	11/06/09	Valero	Complex 8 South - Recovery Well
RW83	780911.10	2341656.50	29.03	NAD'27	11/06/09	Valero	Complex 8 South - Recovery Well
RW84	780863.40	2341868.05	39.43	NAD'27	11/06/09	Valero	Complex 8 South - Recovery Well
RW85	781002.93	2341996.27	39.55	NAD'27	11/06/09	Valero	Complex 8 South - Recovery Well
RW86	781095.15	2342070.61	40.17	NAD'27	11/06/09	Valero	Complex 8 South - Recovery Well
RW87	780827.72	2342391.95	43.70	NAD'27	11/06/09	Valero	Complex 8 South - Recovery Well
RW88	781169.66	2342395.09	32.04	NAD'27	11/06/09	Valero	Complex 8 South - Recovery Well
RW89	781492.75	2342709.97	28.10	NAD'27	11/06/09	Valero	Complex 8 North - Recovery Well
RW90	781176.03	2342644.48	31.39	NAD'27	11/06/09	Valero	Complex 8 South - Recovery Well
RWPG01	781633.06	2340769.29	15.83	NAD'27	NR	URS	PGA -Observation Well
RWPG02	781621.98	2340708.47	15.86	NAD'27	NR	URS	PGA - Recovery Well
RWPG03	781614.97	2340646.89	16.18	NAD'27	NR	URS	PGA - Recovery Well
RWPG04	781598.07	2340556.20	20.04	NAD'27	NR	URS	PGA - Recovery Well
RWPG05	781590.96	2340484.60	13.95	NAD'27	NR	URS	PGA - Recovery Well
RWPG06	781578.53	2340420.39	13.07	NAD'27	NR	URS	PGA - Recovery Well
RWPG07	781549.72	2340362.60	12.51	NAD'27	NR	URS	PGA - Recovery Well

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Well ID	Northing	Easting	TOC Elevation	Horizontal Datum	Survey Date	Data Source	Well Status / Remarks
RWPG08	781537.40	2340294.41	12.25	NAD'27	NR	URS	PGA - Observation Well
RWPG09	781552.76	2340233.08	11.40	NAD'27	NR	URS	PGA - Observation Well
RWQ01	781063.16	2336534.26	12.72	NAD '27	07/25/05	Valero	Complex 6 - Recovery Well
RWQ01P01	781048.35	2336533.15	9.93	NAD '27	07/25/05	Valero	Complex 6 - Observation Well
RWQ02	781210.98	2336686.21	11.28	NAD '27	07/25/05	Valero	Complex 6 - Recovery Well
RWQ03	781063.00	2336695.00	11.52	NAD '27	07/25/05	Valero	Complex 6 - Recovery Well
RWQ04	781027.73	2336822.97	10.38	NAD '27	07/25/05	Valero	Complex 6 - Recovery Well
RWQ05	780899.35	2336889.44	15.51	NAD '27	07/25/05	Valero	Complex 6 - Recovery Well
El Paso / Elementis Chromium Plant							
DT45	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
EMW-U1T	783056.64	2345456.31	21.52	NAD'27	06/28/05	URS	El Paso Monitoring Well - IM Area
EMW-U2T	783164.71	2345510.02	25.43	NAD'27	06/28/05	URS	El Paso Monitoring Well - IM Area
EMW-U3T	783661.11	2344940.56	10.58	NAD'27	06/28/05	URS	El Paso Monitoring Well - IM Area
EMW-U4T	783427.97	2345306.71	14.40	NAD'27	06/28/05	URS	El Paso Monitoring Well - IM Area
EMW-U5T	783541.68	2345017.10	13.09	NAD'27	06/28/05	URS	P&A'd
EMW-U6T	17187310.43	1329723.79	23.29	NAD'83	06/29/05	NR	El Paso Monitoring Well - IM Area
EMW-L6T	783003.95	2345562.76	23.03	NAD'27	07/31/09	URS	El Paso Observation Well - IM Area
EMW-U7B	17187685.89	1329155.37	27.97	NAD'83	06/29/05	NR	El Paso Monitoring Well - IM Area
EMW-L8T	17187603.59	1329343.72	27.09	NAD'83	06/29/05	NR	El Paso Monitoring Well - IM Area
EMW-L9T	17187704.07	1329118.47	27.86	NAD'83	06/29/05	NR	El Paso Monitoring Well - IM Area
EMW-U10T	17187690.06	1329146.53	28.01	NAD'83	06/29/05	NR	El Paso Monitoring Well - IM Area
EMW-U11T	17186075.18	1325961.98	24.73	NAD'83	06/29/05	URS	El Paso Monitoring Well
EMW-U12T	17185889.24	1326544.00	29.07	NAD'83	06/29/05	URS	El Paso Observation Well
EMW-U13T	17186026.69	1326813.81	25.53	NAD'83	06/29/05	URS	El Paso Observation Well
EMW-U14T	17186601.16	1327111.92	27.89	NAD'83	06/29/05	URS	El Paso Recovery Well - RD Area
EMW-U15T	17187180.19	1327388.40	28.39	NAD'83	06/29/05	URS	El Paso Recovery Well - RD Area
EMW-U16T	17187479.23	1327670.62	28.27	NAD'83	06/29/05	URS	El Paso Observation Well
EMW-U17T	17187390.06	1327957.04	27.39	NAD'83	06/29/05	URS	El Paso Monitoring Well
EMW-U18T	17187114.82	1328484.68	26.84	NAD'83	06/29/05	URS	El Paso Observation Well
EMW-U19T	17186691.76	1328334.80	25.94	NAD'83	06/29/05	URS	El Paso Observation Well
EMW-U20T	17186449.33	1328257.81	29.85	NAD'83	06/29/05	URS	El Paso Observation Well
EMW-U21T	17186036.62	1328125.56	29.24	NAD'83	06/29/05	URS	El Paso Monitoring Well
EMW-U22T	17185907.79	1328076.53	29.48	NAD'83	06/29/05	URS	El Paso Observation Well
EMW-U23T	17185671.04	1327986.26	32.32	NAD'83	06/29/05	URS	El Paso Observation Well
EMW-U24T	17185489.07	1327926.48	32.13	NAD'83	06/29/05	URS	El Paso Observation Well
EMW-U25T	17185486.38	1328359.03	30.18	NAD'83	06/29/05	URS	El Paso Observation Well
EMW-U26T	17185613.94	1329036.35	29.44	NAD'83	06/30/05	URS	El Paso Monitoring Well
EMW-U27T	17186215.57	1329099.69	29.17	NAD'83	06/30/05	URS	El Paso Monitoring Well
EMW-U28T	17186296.78	1329618.10	28.46	NAD'83	06/30/05	URS	El Paso Monitoring Well
EMW-U29T	17187070.66	1329423.31	27.82	NAD'83	06/30/05	URS	El Paso Monitoring Well
EMW-U30T	17186954.80	1329631.59	25.05	NAD'83	06/30/05	URS	El Paso Monitoring Well
EMW-U31T	17187580.09	1328371.33	26.59	NAD'83	06/30/05	URS	El Paso Monitoring Well
EMW-U32T	17187936.85	1327948.32	27.17	NAD'83	06/30/05	URS	El Paso Monitoring Well
EMW-U33T	17188051.96	1328561.93	13.36	NAD'83	06/30/05	URS	El Paso Monitoring Well
EMW-L34T	17186260.73	1328531.08	30.15	NAD'83	06/30/05	URS	El Paso Monitoring Well
EMW-L35B	17186256.33	1328518.19	30.11	NAD'83	06/30/05	URS	El Paso Monitoring Well
EMW-L36T	17186371.70	1328236.04	29.16	NAD'83	06/30/05	URS	El Paso Monitoring Well
EMW-L37T	17185487.28	1328371.94	29.88	NAD'83	06/30/05	URS	El Paso Monitoring Well
EMW-L38T	17186292.96	1329629.10	28.68	NAD'83	06/30/05	URS	El Paso Monitoring Well
EMW-L39T	17187251.24	1328788.30	28.42	NAD'83	06/30/05	URS	El Paso Monitoring Well
EMW-U40T	781252.33	2344592.41	29.85	NAD'27	07/31/09	URS	El Paso Observation Well
EMW-L41T	782365.11	2345548.88	27.54	NAD'27	07/31/09	URS	El Paso Observation Well
EMW-U41T	782360.35	2345546.53	27.51	NAD'27	07/31/09	URS	El Paso Observation Well
EMW-U42T	783273.56	2343917.10	27.08	NAD'27	07/31/09	URS	El Paso Observation Well
ENCMW01	17185539.27	1320465.19	19.56	NAD'83	06/30/05	URS	Offsite Encycle - Monitor Well
EPCMW01	781641.41	2340281.57	12.35	NAD'27	06/29/05	URS	El Paso Monitoring Well
EPCMW02	781695.46	2340715.74	20.35	NAD'27	06/29/05	URS	El Paso Monitoring Well
EPCMW03	781824.38	2341372.47	23.14	NAD'27	06/29/05	URS	El Paso Monitoring Well
EPCMW04	783061.62	2342806.03	29.78	NAD'27	06/29/05	URS	El Paso Monitoring Well
EPCMW05	783163.57	2343254.16	27.74	NAD'27	06/29/05	URS	El Paso Monitoring Well
EPCMW06	781397.00	2337234.00	0.00	NAD'27	NR	URS	El Paso Monitoring Well
EPZ-01	783284.92	2345183.56	27.09	NAD'27	NR	URS	El Paso Monitoring Well - IM Area
EPZ-02	783185.63	2345130.39	26.86	NAD'27	NR	URS	El Paso Monitoring Well - IM Area

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EPZ-03	783440.77	2344847.18	28.41	NAD'27	NR	URS	El Paso Monitoring Well - IM Area
EPZ-04	783708.44	2344919.11	11.06	NAD'27	NR	URS	El Paso Monitoring Well - IM Area
EPZ-05	783766.91	2344674.37	11.80	NAD'27	NR	URS	El Paso Monitoring Well - IM Area
EPZ-06	783591.99	2344744.18	12.68	NAD'27	NR	URS	El Paso Monitoring Well - IM Area
EPZ-07	783546.69	2344895.95	13.43	NAD'27	NR	URS	El Paso Monitoring Well - IM Area
EPZ-08	783334.62	2345412.35	15.65	NAD'27	NR	URS	El Paso Monitoring Well - IM Area
EPZ-09	782925.68	2344289.96	26.69	NAD'27	NR	URS	El Paso Monitoring Well
EPZ-10	782928.09	2344282.95	26.80	NAD'27	NR	URS	El Paso Monitoring Well
EPZ-11	782956.47	2344016.63	28.35	NAD'27	NR	URS	El Paso Monitoring Well
EPZ-12	783511.52	2344590.89	27.78	NAD'27	NR	URS	El Paso Monitoring Well
EPZ-13	782668.47	2343124.78	28.22	NAD'27	NR	URS	El Paso Recovery Well - RD Area
EPZ-14	782444.79	2343018.29	28.50	NAD'27	NR	URS	El Paso Recovery Well - RD Area
EPZ-15	782146.44	2342887.34	27.91	NAD'27	NR	URS	El Paso Recovery Well - RD Area
EPZ-16	781801.27	2342002.77	26.04	NAD'27	NR	URS	El Paso Observation Well
EPZ-17	781906.58	2342785.16	26.39	NAD'27	NR	URS	El Paso Recovery Well - RD Area
IWL1	NR	NR	NR	NR	NR	URS	Elementis - Annually Monitored
MWU01	NR	NR	NR	NR	NR	NR	P&A'd
MWU04	NR	NR	NR	NR	NR	URS	Elementis - Annually Monitored
MWU05	783545.72	2343491.29	25.30	NR	NR	Valero	Elementis Monitoring Well
MWU07	NR	NR	NR	NR	NR	NR	P&A'd
MWU08	NR	NR	NR	NR	NR	NR	P&A'd
MWU09	NR	NR	NR	NR	NR	NR	P&A'd
MWU10	NR	NR	NR	NR	NR	NR	P&A'd
MWU11	NR	NR	NR	NR	NR	NR	Elementis Monitoring/Recovery Well
MWU12	NR	NR	NR	NR	NR	NR	Elementis Recovery
MWU13	NR	NR	NR	NR	NR	NR	Elementis Recovery
MWU14	NR	NR	NR	NR	NR	NR	Elementis Recovery
MWU15	NR	NR	NR	NR	NR	NR	Elementis Recovery
MWU16	NR	NR	NR	NR	NR	NR	Elementis Recovery
MWU17	NR	NR	NR	NR	NR	NR	Elementis Recovery
MWU18	NR	NR	NR	NR	NR	NR	Elementis Recovery
MWU19	NR	NR	NR	NR	NR	NR	Elementis Recovery
MWU20	NR	NR	NR	NR	NR	NR	Elementis Recovery
MWU25	17187733.12	1329385.68	13.19	NR	NR	NR	Elementis - Annually Monitored
MWU26	17187710.86	1329437.24	14.80	NR	NR	NR	Elementis - Annually Monitored
MWU26A	783402.05	2345282.33	12.00	NR	NR	Valero	El Paso - Recovery Well
MWU27	17187748.57	1329348.24	13.82	NR	NR	NR	Elementis - Annually Monitored
MWU28	17187644.69	1329604.72	13.01	NR	NR	NR	Elementis - Annually Monitored
MWU29	17187662.89	1329580.07	13.82	NR	NR	NR	Elementis - Annually Monitored
MWU31	17187622.70	1329632.63	13.38	NR	NR	NR	Elementis - Annually Monitored
MWU32	17187698.37	1329536.44	13.35	NR	NR	NR	Elementis - Annually Monitored
MWU33	17187579.71	1329178.16	26.41	NR	NR	NR	Elementis - Annually Monitored
MWU34	17187312.84	1329031.42	29.47	NR	NR	NR	Elementis - Annually Monitored
MWU35	17188006.49	1328312.13	9.91	NR	NR	NR	Elementis Recovery
MWU36	17188144.06	1328546.60	10.97	NR	NR	NR	Elementis - Annually Monitored
MWU37	17187741.40	1327781.22	27.98	NR	NR	NR	Elementis - Annually Monitored
MWU38	17187683.99	1327897.50	27.14	NR	NR	NR	Elementis - Annually Monitored
MWU39	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
MWL01	NR	NR	NR	NR	NR	NR	P&A'd
MWL02	NR	NR	NR	NR	NR	NR	Elementis Monitoring Well
MWL03	NR	NR	NR	NR	NR	NR	Elementis Monitoring Well
MWL3R	NR	NR	NR	NR	NR	NR	Elementis Recovery/Injection
MWL4B	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
MWL14	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
MWL15R	NR	NR	NR	NR	NR	NR	Elementis Recovery/Injection
MWL16	NR	NR	NR	NR	NR	NR	Elementis Recovery
MWL17R	NR	NR	NR	NR	NR	NR	Elementis Recovery/Injection
MWL18	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
MWL19	NR	NR	NR	NR	NR	Valero	Elementis Recovery
MWL20	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
OWL01	NR	NR	NR	NR	NR	NR	Elementis Monitoring Well

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Well ID	Northing	Easting	TOC Elevation	Horizontal Datum	Survey Date	Data Source	Well Status / Remarks
OWL02	NR	NR	NR	NR	NR	NR	P&A'd
OWL04	781937.19	2341330.01	19.32	NAD'27	NR	URS	El Paso Monitoring Well
OWL06	NR	NR	NR	NR	NR	NR	Elementis Monitoring Well
OWL07	NR	NR	NR	NR	NR	NR	P&A'd
OWL08	783243.82	2345378.42	24.54	NAD'27	NR	URS	Elementis Monitoring Well
OWL09	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
OWL14R	783162.06	2343554.86	27.50	NAD'27	NR	URS	Elementis Recovery
OWL15	783563.23	2344297.27	21.50	NR	NR	Valero	El Paso Monitoring Well
OWL16	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
OWL17	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
OWL18	784531.60	2344199.30	9.16	NR	NR	Valero	El Paso Monitoring Well
OWL19	NR	NR	NR	NR	NR	Valero	P&A'd
OWL21	783294.70	2342343.62	34.60	NAD'27	NR	URS	Elementis - Injection Well
OWL25	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
OWL26	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
OWL27	783332.54	2344950.80	26.88	NAD'27	NR	URS	P&A'd
OWU21	783304.92	2342333.54	34.71	NAD'27	NR	URS	El Paso Monitoring Well
OWU23	782812.77	2340756.44	19.50	NAD'27	NR	URS	El Paso Monitoring Well
OWU24	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
OWU25	781218.40	2343823.07	32.28	NAD'27	NR	URS	Elementis - Annually Monitored
OWU26	781463.20	2344125.81	29.27	NAD'27	NR	URS	Elementis - Annually Monitored
OWU27	781933.03	2344041.71	29.13	NAD'27	NR	URS	Elementis - Annually Monitored
OWU28	782596.43	2344250.89	27.40	NAD'27	NR	URS	Elementis - Annually Monitored
OWU29	782497.01	2344498.49	28.72	NAD'27	NR	URS	Elementis - Annually Monitored
OWU30	782385.91	2344745.06	27.85	NAD'27	NR	URS	Elementis - Annually Monitored
OWU31	781765.23	2344480.55	29.09	NAD'27	NR	URS	Elementis - Annually Monitored
OWU32	781582.84	2344789.56	29.47	NAD'27	NR	URS	Elementis - Annually Monitored
OWU33	781293.60	2344247.02	30.44	NAD'27	NR	URS	Elementis - Annually Monitored
OWU34	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
OWU35	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
OWU36	783740.16	2343565.48	11.87	NAD'27	04/13/09	RPSJDC	Elementis - Annually Monitored
OWU37	783733.32	2344162.06	9.22	NAD'27	NR	URS	El Paso Monitoring Well
OWU38	783550.40	2344811.99	13.99	NAD'27	NR	URS	El Paso Monitoring Well
OWU39	NR	NR	NR	NR	NR	NR	El Paso Monitoring Well
OWU40	781832.68	2342566.55	23.88	NAD'27	NR	URS	Offsite Elementis Chromium Recovery Well
OWU41	782582.31	2343081.30	30.00	NAD'27	NR	URS	El Paso Observation Well
OWU42	781469.66	2345058.67	28.48	NAD'27	NR	URS	El Paso Monitoring Well
OWU43	782270.62	2345276.89	27.02	NAD'27	NR	URS	El Paso Monitoring Well
OWU44	783018.75	2344408.73	28.23	NAD'27	NR	URS	Elementis - Annually Monitored
OWU45	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
OWU46	783327.90	2343426.19	28.49	NAD'27	04/13/09	RPSJDC	El Paso Monitoring Well
OWU47	783391.27	2343453.69	28.45	NAD'27	04/13/09	RPSJDC	Elementis - Annually Monitored
OWU48	782391.76	2344652.84	28.60	NAD'27	NR	URS	Elementis - Annually Monitored
OWU49	782353.60	2344675.41	27.99	NAD'27	NR	URS	Elementis - Annually Monitored
P06	783286.78	2345038.97	24.47	NAD'27	NR	URS	Elementis - Annually Monitored
P08	783289.46	2345029.59	24.52	NAD'27	NR	URS	Elementis - Annually Monitored
PZ05	783388.62	2345409.22	14.62	NAD'27	NR	URS	Elementis - Annually Monitored
PZ06	783417.33	2345342.38	14.53	NAD'27	NR	URS	Elementis - Annually Monitored
PZ07	783496.97	2345113.60	13.93	NAD'27	NR	URS	Elementis - Annually Monitored
PZ08	783469.07	2345168.10	11.78	NAD'27	NR	URS	Elementis Monitoring Well
PZ09	783435.49	2345261.86	11.79	NAD'27	NR	URS	Elementis - Annually Monitored
PZ10	783455.59	2345152.08	11.74	NAD'27	NR	URS	Elementis Monitoring Well
RMWL01	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
RMWL02	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
RMWL03	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
RW01	NR	NR	NR	NR	NR	NR	El Paso Recovery Well
RW02	NR	NR	NR	NR	NR	NR	El Paso Recovery Well
RW03	NR	NR	NR	NR	NR	NR	El Paso Recovery Well
RW02EC	783605.01	2344644.46	9.20	NR	NR	Valero	
RW03EC	783361.47	2345408.18	12.60	NR	NR	Valero	El Paso Recovery Well

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RWEC01	781701.23	2342124.62	25.35	NAD'27	NR	URS	El Paso Recovery Well
RWEC02	781783.79	2342442.95	24.73	NAD'27	NR	URS	El Paso Recovery Well
RWEC03	783023.73	2344336.43	26.52	NAD'27	NR	URS	El Paso Recovery Well
RWEC04	783379.87	2344474.49	26.81	NAD'27	NR	URS	El Paso Recovery Well
RWEC05	781196.09	2343846.48	31.65	NAD'27	NR	URS	El Paso Recovery Well
RWEC06	781916.47	2344112.74	29.89	NAD'27	NR	URS	El Paso Recovery Well
RWEC07	782149.36	2344196.19	28.17	NAD'27	NR	URS	El Paso Recovery Well
RWEC08	782951.85	2344644.48	27.79	NAD'27	NR	URS	El Paso Recovery Well
RWEC09	781785.73	2344423.99	28.92	NAD'27	NR	URS	El Paso Recovery Well
RWEC10	782141.09	2344425.10	29.97	NAD'27	NR	URS	El Paso Recovery Well
RWEC11	781654.45	2344681.17	28.70	NAD'27	NR	URS	El Paso Recovery Well
RWEC12	781971.16	2344837.98	29.36	NAD'27	NR	URS	El Paso Recovery Well
RWEC13	781811.96	2342567.00	24.04	NAD'27	NR	URS	El Paso Recovery Well
RWEC14	781757.03	2342296.39	24.47	NAD'27	NR	URS	El Paso Recovery Well
RWEC15	781808.90	2342671.47	23.92	NAD'27	NR	URS	El Paso Recovery Well
RWOD07	784766.76	2344126.68	7.99	NAD'27	NR	URS	El Paso Recovery Well
T11	783553.08	2344340.49	24.74	NAD'27	NR	URS	Elementis - Annually Monitored
T12	783690.49	2344112.07	11.54	NAD'27	NR	URS	Elementis - Annually Monitored
TH14	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
TH36	784352.13	2343477.98	13.68	NAD'27	04/13/09	RPSJDC	Elementis - Annually Monitored
TH37	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
TH38	784359.37	2341517.41	10.47	NAD'27	NR	URS	El Paso Monitoring Well
TH39	783965.65	2340677.52	14.04	NAD'27	NR	URS	El Paso Monitoring Well
TH40	NR	NR	NR	NR	NR	NR	Elementis - Annually Monitored
EW-01	783474.34	2344661.96	28.46	NAD'27	NR	URS	El Paso Recovery Well
EW-02	783456.07	2344758.61	28.07	NAD'27	NR	URS	El Paso Recovery Well
EW-03	783435.11	2344857.10	28.42	NAD'27	NR	URS	El Paso Recovery Well
EW-04	783399.46	2344951.01	28.02	NAD'27	NR	URS	El Paso Recovery Well
EW-05	783361.75	2345039.32	27.77	NAD'27	NR	URS	El Paso Recovery Well
EW-06	783317.53	2345126.98	27.21	NAD'27	NR	URS	El Paso Recovery Well
LPZ-01	781116.02	2343817.07	28.82	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-02	781248.91	2344056.06	31.04	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-03	781207.80	2344393.72	30.09	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-04	781364.39	2344133.28	30.99	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-05	781427.28	2344474.72	30.34	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-06	781437.33	2344731.47	29.24	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-07	781625.45	2344340.63	28.02	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-08	781767.76	2344184.85	29.31	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-09	781618.20	2345005.41	28.33	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-10	781818.08	2344851.07	28.37	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-11	781859.55	2345099.42	28.90	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-12	781998.06	2344630.46	28.00	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-13	782035.29	2344303.22	29.32	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-14	782129.60	2345156.90	28.88	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-15	782256.07	2344996.04	28.73	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-16	782154.45	2344791.16	28.61	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-17	782210.07	2344622.88	25.78	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-18	782287.46	2344372.69	26.18	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-19	782280.71	2344158.25	29.38	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-20	782414.56	2345221.01	27.87	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-21	782383.47	2344885.04	28.02	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-22	782503.91	2345114.17	28.10	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-23	782576.60	2344760.14	28.97	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-24	782707.16	2344372.18	25.13	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-25	782626.30	2344940.29	24.08	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-26	782783.27	2344521.62	24.81	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-27	782780.22	2344992.53	27.34	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-28	782883.49	2344823.17	25.45	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-29	783042.91	2344088.78	28.54	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-30	783055.91	2343989.95	27.32	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-31	783241.28	2343621.00	27.46	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-32	782920.19	2345106.96	28.22	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-33	783171.81	2344087.28	27.14	NAD'27	07/31/09	URS	El Paso Observation Well

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Well ID	Northing	Easting	TOC Elevation	Horizontal Datum	Survey Date	Data Source	Well Status / Remarks
LPZ-34	783054.56	2345166.01	26.49	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-35	783178.00	2344994.98	24.82	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-37	783200.21	2344485.18	26.18	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-38	783380.40	2344677.87	26.57	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-39	783477.67	2344387.56	27.12	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-40	783189.41	2343870.69	26.94	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-41	783517.96	2344166.17	25.80	NAD'27	07/31/09	URS	El Paso Observation Well
LPZ-44	783160.82	2344674.88	25.75	NAD'27	07/31/09	URS	El Paso Observation Well
PZ DG-01	783621.27	2344902.01	13.17	NAD'27	06/28/07	URS	El Paso Observation Well
PZ DG-02	783609.37	2344938.52	13.67	NAD'27	06/28/07	URS	El Paso Observation Well
PZ DG-03	783581.47	2345015.76	14.05	NAD'27	06/28/07	URS	El Paso Observation Well
PZ DG-04	783574.22	2345034.64	12.72	NAD'27	06/28/07	URS	El Paso Observation Well
Cofferdam	783600.69	2345131.46	8.20	NAD'27	02/09/07	URS	El Paso Observation Well
R-1	783417.23	2345327.76	13.98	NAD'27	02/09/07	URS	El Paso Observation Well
R-2	783510.66	2345054.18	14.40	NAD'27	02/09/07	URS	El Paso Observation Well
R-3	783527.97	2345021.38	14.49	NAD'27	02/09/07	URS	El Paso Observation Well
R-4	783615.13	2344620.86	11.96	NAD'27	02/09/07	URS	El Paso Observation Well
Hess							
AZ1	-2288.00	1574.00	39.19	Hess	NR	Hess	Hess Monitoring Well
AZ2	-790.00	1602.00	24.96	Hess	NR	Hess	Hess Observation Well
AZ3	-814.00	2192.00	39.68	Hess	NR	Hess	Hess Observation Well
AZ4	-153.00	1798.00	30.15	Hess	NR	Hess	Hess Observation Well
AZ4D	-152.00	1783.00	25.57	Hess	NR	Hess	Hess Observation Well
AZ5	-1275.00	2230.00	25.71	Hess	NR	Hess	Hess Observation Well
AZ5D	-1225.00	2241.00	26.17	Hess	NR	Hess	Hess Observation Well
AZ6	-1825.00	1547.00	30.91	Hess	NR	Hess	Hess Observation Well
AZ7	-1218.00	1618.00	26.70	Hess	NR	Hess	Hess Monitoring Well
AZ8	-1528.00	1583.00	28.64	Hess	NR	Hess	Hess Observation Well
AZ9	-508.00	1886.00	25.89	Hess	NR	Hess	Hess Observation Well
AZ10	-2540.00	1333.00	39.68	Hess	NR	Hess	Hess Monitoring Well
AZ11	-1709.00	2184.00	30.15	Hess	NR	Hess	Hess Monitoring Well
AZ12	-1045.00	2792.00	25.96	Hess	NR	Hess	Hess Monitoring Well
AZ13	-720.00	1888.00	25.57	Hess	NR	Hess	Hess Observation Well
AZ14	-947.00	2171.00	26.23	Hess	NR	Hess	Hess Observation Well
AZ15	-1220.00	2051.00	24.70	Hess	NR	Hess	Hess Observation Well
AZ16	-976.00	1887.00	24.66	Hess	NR	Hess	Hess Observation Well
AZ17	-1219.00	2545.00	25.75	Hess	NR	Hess	Hess Monitoring Well
AZ18	-610.00	2451.00	26.37	Hess	NR	Hess	Hess Observation Well
AZ19	-133.00	2178.00	28.57	Hess	NR	Hess	Hess Observation Well
AZ20	-1533.00	1860.00	24.73	Hess	NR	Hess	Hess Observation Well
AZ21	-121.00	1576.00	24.84	Hess	NR	Hess	Hess Recovery Well
AZ22	-132.00	1999.00	25.17	Hess	NR	Hess	Hess Recovery Well
AZ23	-133.00	2211.00	25.20	Hess	NR	Hess	Hess Recovery Well
AZ24	-317.00	2223.00	24.41	Hess	NR	Hess	Hess Recovery Well
AZ25	-532.00	2221.00	25.37	Hess	NR	Hess	Hess Recovery Well
AZ26	-797.00	2204.00	25.70	Hess	NR	Hess	Hess Recovery Well
MW1	94.00	-152.00	27.82	Hess	NR	Hess	Hess Observation Well
MW2	325.00	260.00	27.10	Hess	NR	Hess	Hess Monitoring Well
MW3	-216.00	670.00	27.17	Hess	NR	Hess	Hess Observation Well
MW4	-161.00	200.00	28.37	Hess	NR	Hess	Hess Observation Well
MW5	-856.00	69.00	33.47	Hess	NR	Hess	Hess Observation Well
MW6R	162.55	997.19	29.11	Hess	NR	Hess	Hess Observation Well
MW7	-297.00	1087.00	28.30	Hess	NR	Hess	Hess Observation Well
MW8	-891.00	1000.00	42.66	Hess	NR	Hess	Hess Observation Well
MW9	-1098.00	358.00	35.95	Hess	NR	Hess	Hess Observation Well
MW10	-1656.00	1201.00	39.06	Hess	NR	Hess	Hess Observation Well
MW11	-2460.00	1151.00	44.74	Hess	NR	Hess	Hess Monitoring Well
MW12	-1661.00	11.00	41.61	Hess	NR	Hess	Hess Observation Well
MW13	-2449.00	24.00	47.60	Hess	NR	Hess	Hess Observation Well
MW14D	739.00	1250.00	27.21	Hess	NR	Hess	Hess Monitoring Well
MW14R	760.00	1250.00	26.83	Hess	NR	Hess	Hess Monitoring Well
MW15	-152.00	254.00	31.17	Hess	NR	Hess	Hess Recovery Well
MW16	-64.00	667.00	30.03	Hess	NR	Hess	Hess Observation Well

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Well ID	Northing	Easting	TOC Elevation	Horizontal Datum	Survey Date	Data Source	Well Status / Remarks
MW16R	-78.37	667.69	31.20	Hess	NR	Hess	Hess Recovery Well
MW17	-867.00	1129.00	32.78	Hess	NR	Hess	Hess Monitoring Well
MW18	-1593.00	1209.00	42.69	Hess	NR	Hess	Hess Observation Well
MW19	-147.00	1135.00	30.47	Hess	NR	Hess	Hess Observation Well
MW20	0.65	500.00	30.14	Hess	NR	Hess	Hess Recovery Well
MW20R	-77.42	494.95	30.80	Hess	NR	Hess	Hess Recovery Well
MW21	31.00	857.00	30.52	Hess	NR	Hess	Hess Recovery Well
MW21R	-67.43	858.60	30.14	Hess	NR	Hess	Hess Recovery Well
MW22	139.00	1064.00	29.34	Hess	NR	Hess	Hess Recovery or Observation Well
MW23	44.00	1137.00	30.74	Hess	NR	Hess	Hess Recovery Well
MW24	45.00	1233.00	31.15	Hess	NR	Hess	Hess Recovery or Observation Well
MW25	-41.00	1130.00	31.25	Hess	NR	Hess	Hess Recovery Well
MW26	-40.00	1231.00	31.27	Hess	NR	Hess	Hess Recovery Well
MW27	-142.00	1222.00	30.33	Hess	NR	Hess	Hess Recovery Well
MW28	-335.00	1219.00	31.57	Hess	NR	Hess	Hess Observation Well
MW29	-513.00	1217.00	31.10	Hess	NR	Hess	Hess Recovery Well
MW30	-1227.00	1083.00	41.69	Hess	NR	Hess	Hess Observation Well
MW31	29.00	-15.00	30.36	Hess	NR	Hess	Hess Observation Well
MW32	-792.00	-96.00	36.72	Hess	NR	Hess	Hess Monitoring Well
MW33	-520.00	556.00	33.75	Hess	NR	Hess	Hess Observation Well
MW34	-835.00	567.00	39.72	Hess	NR	Hess	Hess Monitoring Well
MW35	-1344.00	389.00	40.11	Hess	NR	Hess	Hess Observation Well
MW36	-1750.00	358.00	45.34	Hess	NR	Hess	Hess Observation Well
MW37	-2126.00	598.00	42.25	Hess	NR	Hess	Hess Monitoring Well
MW38	-1086.00	999.51	43.24	Hess	NR	Hess	Hess Observation Well
MW39	-1426.00	1014.00	42.95	Hess	NR	Hess	Hess Observation Well
MW40	-1157.00	-137.00	40.22	Hess	NR	Hess	Hess Observation Well
MW41	-278.00	-209.00	30.90	Hess	NR	Hess	Hess Recovery or Observation Well
MW42	377.00	678.00	28.28	Hess	NR	Hess	Hess Recovery or Observation Well
MW43	551.00	617.00	28.64	Hess	NR	Hess	Hess Recovery or Observation Well
MW44	565.00	888.00	31.34	Hess	NR	Hess	Hess Observation Well
MW45	434.00	1105.00	26.54	Hess	NR	Hess	Hess Observation Well
MW46	-109.00	-226.00	31.31	Hess	NR	Hess	Hess Observation Well
MW47	-516.00	219.00	31.37	Hess	NR	Hess	Hess Observation or Monitoring Well
MW48	-1196.00	717.00	41.77	Hess	NR	Hess	Hess Monitoring Well
MW49	-1652.00	823.00	41.13	Hess	NR	Hess	Hess Observation Well
MW50	-1808.00	975.00	39.87	Hess	NR	Hess	Hess Observation Well
MW51	-2155.00	-102.00	43.88	Hess	NR	Hess	Hess Observation Well
MW52	-1405.00	-134.00	45.49	Hess	NR	Hess	Hess Observation Well
MW53	756.00	757.00	29.90	Hess	NR	Hess	Hess Monitoring Well
MW54	-2395.00	-38.00	46.50	Hess	NR	Hess	Hess Observation Well
MW55	-1647.00	-112.00	40.60	Hess	NR	Hess	Hess Observation Well
MW56	-829.00	-114.00	40.04	Hess	NR	Hess	Hess Observation Well
MW57	-33.00	1181.00	31.88	Hess	NR	Hess	Hess Observation Well
MW58	-1883.00	909.00	39.23	Hess	NR	Hess	Hess Observation Well
MW59	-1820.00	1131.00	39.63	Hess	NR	Hess	Hess Observation Well
MW60	-1721.00	1158.00	41.38	Hess	NR	Hess	Hess Observation Well
MW61	-1865.00	722.00	39.79	Hess	NR	Hess	Hess Observation Well
MW62	560.64	741.50	42.31	Hess	NR	Hess	Hess Observation Well
MW63	-1375.07	374.10	40.22	Hess	NR	Hess	Hess Observation Well
MW64	-1644.76	382.76	41.56	Hess	NR	Hess	Hess Observation Well
MW65	-1230.97	1072.87	26.65	Hess	NR	Hess	Hess Recovery or Observation Well

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Well ID	Northing	Easting	TOC Elevation	Horizontal Datum	Survey Date	Data Source	Well Status / Remarks
Gunderland Marine Recovery (Valero)							
GUNMW01	780237.24	2340620.98	44.15	NR	06/28/07	Valero	P&A'd
GUNMW02	780267.50	2340653.12	44.18	NR	06/28/07	Valero	P&A'd
GUNMW03	780290.75	2340593.71	43.80	NR	06/28/07	Valero	P&A'd
GUNMW04	780364.16	2340537.12	43.36	NR	06/28/07	Valero	P&A'd
GUNMW05	780336.84	2340698.85	43.94	NR	06/28/07	Valero	P&A'd
GUNMW06	780117.21	2340666.72	43.11	NR	06/28/07	Valero	P&A'd
GUNMW07	780225.36	2340520.05	43.33	NR	06/28/07	Valero	P&A'd
GUNMW08	780063.82	2340948.12	41.07	NR	06/28/07	Valero	P&A'd
GUNRW01	780268.96	2340623.24	43.82	NR	06/28/07	Valero	P&A'd

Definitions

FHR - Flint Hills Resources, LP
URS - URS Corporation
NR - Not reported
P&A'd - Plugged and Abandoned
RSA - Rosengarten, Smith & Associates
TOC - Top of casing
GMP - Groundwater Monitoring Program
RCRA - Resource Conservation and Recovery Act

Data Source Information

Hess Survey information comes from Table 7 provided to RSA by GeoMonitoring Services and Hess
Valero Survey performed by George Rubalcaba on 7/6/2005 for JD Consultants and Valero
Flint Hills Survey Provided by Flint Hills Resources in Table 4
Citgo Survey Survey information provided in a spreadsheet from JD Consultants
El Paso Merchant Energy-Petroleum Company Well existence confirmed by URS in personal communication (email memorandum 03/09/2007)

Table 2
October 2009 Well Gauging and Analytical Results
Corpus Christi Inner Harbor Joint Semiannual Hydrocarbon Plume Status Report
April 2010

Well ID	TOC Elevation (ft. MSL)	Specific Gravity	Depth to LNAPL (ft. BTOC)	Depth to GW (ft. BTOC)	Total Well Depth (ft. BTOC)	Apparent LNAPL Thickness (ft.)	Corrected Depth to GW (ft. BTOC)	Corrected GW Elevation (ft. MSL)	Benzene (mg/l)
CITGO DST - Groundwater Contamination Delineation Well									
DSTDW01	42.40	NA	ND	21.26	23.07	ND	21.26	21.14	<0.001
DSTDW02	43.89	0.8256	23.44	25.10	33.90	1.66	23.73	20.16	NA
DSTDW03	43.76	NA	ND	24.20	32.29	ND	24.20	19.56	**0.0061**
DSTDW04	40.32	0.8990	18.65	20.98	31.95	2.33	18.89	21.43	NA
DSTDW05	42.73	NA	ND	21.64	26.15	ND	21.64	21.09	<0.001
DSTDW06	31.07	NA	ND	21.37	34.50	ND	21.37	9.70	**20.8**
DSTDW07	31.56	NA	ND	12.29	22.68	ND	12.29	19.27	**0.494**
CITGO DST - Groundwater Contamination Delineation Well - Deep Water Bearing Zone									
DSTDW08	44.12	NA	ND	33.69	81.10	ND	33.69	10.43	<0.001
DSTDW09	36.51	NA	ND	29.12	89.86	ND	29.12	7.39	<0.001
CITGO DST - Piezometer									
DSTPZ01	44.56	0.7507	23.14	25.55	35.36	2.41	23.74	20.82	NA
DSTPZ02	44.13	0.7507	22.67	25.10	32.82	2.43	23.28	20.85	NA
CITGO DST - Recovery Well									
DSTRW01	42.49	NA	ND	21.48	34.14	ND	21.48	21.01	NA
DSTRW02	44.68	0.7608	23.43	25.10	38.22	1.67	23.83	20.85	NA
DSTRW03R	44.96	0.7519	23.51	25.95	34.82	2.44	24.12	20.84	NA
DSTRW04	46.05	0.7567	24.85	26.23	40.20	1.38	25.19	20.86	NA
DSTRW05	45.01	0.7936	25.20	25.26	37.48	0.06	25.21	19.80	NA
DSTRW06	41.44	NA	ND	19.93	29.70	ND	19.93	21.51	NA
DSTRW07	42.58	0.7861	20.99	21.28	29.74	0.29	21.05	21.53	NA
DSTRW08	43.66	0.7547	22.56	22.56	32.81	<0.01	22.56	21.10	NA
DSTRW09	41.45	NA	ND	19.34	27.85	ND	19.34	22.11	NA
DSTRW10	44.10	NA	ND	23.89	36.69	ND	23.89	20.21	NA
CITGO DST - Monitor Well Installed Prior to Groundwater Contamination Delineation									
DST01	43.84	0.7661	22.48	24.38	33.13	1.90	22.92	20.92	NA
DST02	43.53	NA	ND	21.93	30.09	ND	21.93	21.60	<0.001
DST03R	40.74	0.7603	19.20	19.65	27.83	0.45	19.31	21.43	NA
DST04	43.18	NA	ND	22.44	39.15	ND	22.44	20.74	<0.001
DST05	45.73	0.7661	24.49	25.92	32.47	1.43	24.82	20.91	NA
DST06R	41.23	NA	ND	20.73	24.71	ND	20.73	20.50	<0.001
DST07	41.27	0.7515	19.80	22.22	29.18	2.42	20.40	20.87	NA
DST08	45.72	0.7608	24.50	26.28	34.66	1.78	24.93	20.79	NA
DST09	43.48	0.7509	22.28	22.72	37.87	0.44	22.39	21.09	NA
P01	42.52	0.7936	22.69	22.89	30.14	0.20	22.73	19.79	NA
P02	31.43	0.7500	13.71	13.72	25.32	0.01	13.71	17.72	NA
P03	41.75	0.7990	20.90	22.34	30.38	1.44	21.19	20.56	NA

DST - Deep Sea Terminal
BTOC - Below top of casing
TOC - Top of Casing
MSL - Above mean sea level
NA - Not applicable or not analyzed
ND - Not detected
NM - Not measured
GW - Groundwater
LNAPL - Light non-aqueous phase liquid

Notes

(1) When an apparent hydrocarbon thickness of <0.01 feet is reported, it denotes that hydrocarbon was detected without a distinguishable thickness.

Bold Numbers - Benzene concentration that exceeds the Environmental Protection Agency's (EPA) Maximum Contaminant Level (MCL) - 0.005 mg/l

Table 2
October 2009 Well Gauging and Analytical Results
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Well ID	TOC Elevation (ft. MSL)	Specific Gravity	Depth to LNAPL (ft. BTOC)	Depth to GW (ft. BTOC)	Total Well Depth (ft. BTOC)	Apparent LNAPL Thickness (ft.)	Corrected Depth to GW (ft. BTOC)	Corrected GW Elevation (ft. MSL)	Benzene (mg/l)
CITGO Onsite - Poth Lane Monitor Well									
PL05R	26.76	0.7500	17.30	17.44	17.88	0.14	17.34	9.43	NA
PL08	27.25	0.8031	17.65	22.24	39.62	4.59	18.55	8.70	NA
PL10	26.68	0.8127	17.16	20.16	37.54	3.00	17.72	8.96	NA
PL13	26.18	0.8008	17.49	20.15	40.14	2.66	18.02	8.16	NA
PL14R	26.68	0.7500	ND	18.51	36.30	ND	18.51	8.17	NA
PL16	27.01	NA	ND	18.53	31.77	ND	18.53	8.48	<0.001
PL18	27.09	NA	ND	18.76	42.93	ND	18.76	8.33	<0.001
PL22	26.08	NA	ND	18.80	44.90	ND	18.80	7.28	**3.48**
CITGO Onsite - Monitor Well East Plant									
PL21	24.87	0.7981	16.90	16.90	37.88	<0.01	16.90	7.97	NA
PL25	25.60	NA	ND	17.95	44.15	ND	17.95	7.65	<0.001
PL26	30.97	0.8003	22.25	26.24	38.34	3.99	23.05	7.92	NA
PL27	25.92	NA	ND	18.14	25.86	ND	18.14	7.78	**0.188**
CITGO Onsite - East Plant - Shallow Water Bearing Zone									
DW02R	23.71	NA	ND	4.68	12.49	ND	4.68	19.03	NA
DW03	28.16	NA	ND	6.58	19.84	ND	6.58	21.58	NA
PL24	26.09	NA	ND	8.41	18.17	ND	8.41	17.68	NA
CITGO Onsite - East Plant - Buddy Lawrence AFE Yard - Shallow Water Bearing Zone									
PL06	26.75	0.7500	17.77	18.07	33.13	0.30	17.85	8.91	NA
PL11R	26.98	NA	ND	17.80	22.74	ND	17.80	9.18	NA
PL12	26.95	0.7993	16.74	17.91	27.28	1.17	16.97	9.98	NA
PL17	26.95	NA	ND	16.76	23.45	ND	16.76	10.19	**0.0258**
PL19	25.79	NA	ND	18.45	24.47	ND	18.45	7.34	<0.001
CITGO Onsite - East Plant - Buddy Lawrence AFE Yard - Deep Water Bearing Zone									
DW34	25.77	NA	ND	20.22	85.95	ND	20.22	5.55	<0.001
CITGO Onsite - Piezometer									
PZ01	27.37	NA	ND	19.31	44.53	ND	19.31	8.06	NA
PZ02	27.28	0.7441	19.23	19.25	43.46	0.02	19.24	8.04	NA
CITGO Onsite - Dock No. 2 - Recovery Well									
D201	5.12	NA	ND	2.75	6.24	ND	2.75	2.37	**0.163**
D202	5.04	NA	ND	4.84	5.92	ND	4.84	0.20	**0.00755**
D203	5.12	NA	ND	2.63	5.97	ND	2.63	2.49	<0.001
D204	5.15	NA	ND	5.05	6.07	ND	5.05	0.10	0.00302
D205	4.95	NA	ND	2.25	5.95	ND	2.25	2.70	0.0043
D206	5.02	NA	ND	2.45	5.51	ND	2.45	2.57	<0.001
D207	5.35	NA	ND	2.71	6.00	ND	2.71	2.64	**0.0113**
CITGO Onsite - Deep Water Bearing Zone									
DW29	10.55	NA	ND	6.33	88.41	ND	6.33	4.22	<0.001
DW30	28.34	NA	ND	21.45	92.47	ND	21.45	6.89	<0.001
DW33	20.55	NA	ND	15.47	105.32	ND	15.47	5.08	<0.001
CITGO Onsite - Delineation Well									
DW01	17.61	0.7500	ND	11.59	24.54	ND	11.59	6.02	NA
DW04	28.69	NA	ND	20.64	31.76	ND	20.64	8.05	NA
DW05	27.78	NA	ND	19.31	32.08	ND	19.31	8.47	**0.229**
DW06	27.77	NA	ND	19.25	31.74	ND	19.25	8.52	<0.01
DW07	20.50	0.7086	13.07	13.91	24.35	0.84	13.31	7.19	NA
DW08	10.64	NA	ND	4.92	18.08	ND	4.92	5.72	<0.001
DW09	28.23	NA	ND	21.34	36.32	ND	21.34	6.89	**0.103**

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DW10	25.91	0.7947	17.27	19.54	30.88	2.27	17.74	8.17	NA
DW11	25.02	NA	ND	17.50	30.95	ND	17.50	7.52	0.00295
DW12	17.95	NA	ND	11.78	24.99	ND	11.78	6.17	<0.001
DW13	28.91	NA	ND	22.31	34.90	ND	22.31	6.60	<0.001
DW14	16.10	0.7682	9.92	12.41	24.11	2.49	10.50	5.60	NA
DW15	24.60	0.8003	18.07	18.30	27.66	0.23	18.12	6.48	NA
DW16	26.68	NA	ND	19.59	34.36	ND	19.59	7.09	0.00456
DW17	27.23	NA	ND	19.99	34.29	ND	19.99	7.24	<0.001
DW18	27.66	0.8514	19.91	21.89	32.40	1.98	20.20	7.46	NA
DW19	25.16	0.8577	17.10	19.02	29.82	1.92	17.37	7.79	NA
DW20	9.50	0.7901	3.77	3.77	13.02	<0.01	3.77	5.73	NA
DW21	27.40	NA	ND	20.81	27.83	ND	20.81	6.59	NA
DW22	11.94	0.8112	5.74	7.81	23.10	2.07	6.13	5.81	NA
DW23	10.42	0.7500	4.52	4.52	20.93	<0.01	4.52	5.90	NA
DW24	19.52	NA	ND	13.02	25.85	ND	13.02	6.50	NA
DW25	28.83	NA	ND	20.14	36.03	ND	20.14	8.69	<0.001
DW26	29.54	0.7500	21.75	22.77	33.82	1.02	22.01	7.54	NA
DW27	28.60	0.8417	21.10	22.03	34.66	0.93	21.25	7.35	NA
DW28	24.10	0.8761	16.44	18.44	29.03	2.00	16.69	7.41	NA
DW31R	23.99	NA	ND	16.54	27.19	ND	16.54	7.45	**44.5**
DW32	28.02	NA	ND	20.30	39.26	ND	20.30	7.72	<0.001
DW35	28.94	0.8043	19.94	24.52	32.03	4.58	20.84	8.10	NA
DW36	24.49	0.8753	16.91	19.07	23.77	2.16	17.18	7.31	NA
DW37	23.85	NA	ND	16.62	23.63	ND	16.62	7.23	<0.001
DW38	23.61	NA	ND	16.37	25.04	ND	16.37	7.24	<0.001
DW39	27.43	0.8027	19.99	20.18	34.14	0.19	20.03	7.40	NA
DW40	25.80	0.8503	18.04	19.47	28.76	1.43	18.25	7.55	NA
DW41	25.39	0.8417	ND	18.18	29.93	ND	18.18	7.21	NA
DW42	8.00	NA	ND	2.99	15.30	ND	2.99	5.01	<0.01
DW43	5.64	NA	ND	0.52	11.68	ND	0.52	5.12	<0.01
DW44	6.18	NA	ND	1.18	11.84	ND	1.18	5.00	<0.01
DW45	16.44	0.8028	9.56	10.06	18.99	0.50	9.66	6.78	NA
DW46	21.99	0.7862	14.75	15.10	22.93	0.35	14.82	7.17	NA
CITGO Onsite - Monitor Well									
MW103	21.55	NA	ND	15.08	22.53	ND	15.08	6.47	**0.00583**
MW206R	28.04	NA	ND	19.59	25.24	ND	19.59	8.45	<0.001
MW207	27.09	NA	ND	18.68	33.03	ND	18.68	8.41	NA
MW212	27.82	NA	ND	19.23	34.60	ND	19.23	8.59	<0.001
MW213	28.41	NA	ND	20.12	33.10	ND	20.12	8.29	NA
MW214	27.34	0.8540	18.90	18.95	39.07	0.05	18.91	8.43	NA
MW215	29.06	NA	ND	20.61	44.61	ND	20.61	8.45	<0.001
MW216	28.87	0.7441	20.21	22.07	37.96	1.86	20.69	8.18	NA
MW217	29.99	0.8670	NM	NM	NM	NM	NM	NM	NA
MW218	28.77	NA	ND	20.54	36.53	ND	20.54	8.23	**0.823**
MW219	28.27	0.7397	19.78	21.40	37.15	1.62	20.20	8.07	NA
MW220	28.27	0.7277	20.04	21.14	36.67	1.10	20.34	7.93	NA
MW221	28.92	0.7932	20.51	20.53	36.83	0.02	20.51	8.41	NA
MW222	28.62	0.7340	20.42	21.36	38.84	0.94	20.67	7.95	NA
MW223	28.58	0.8997	20.58	23.56	39.64	2.98	20.88	7.70	NA
MW224	26.87	NA	ND	19.23	37.21	ND	19.23	7.64	<0.001

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MW225	29.69	NA	ND	22.04	32.56	ND	22.04	7.65	**0.124**
MWM01	15.87	NA	ND	9.90	20.58	ND	9.90	5.97	NA
MWP105	23.07	NA	ND	16.74	27.09	ND	16.74	6.33	<0.001
MWSR1	22.21	NA	ND	15.84	23.62	ND	15.84	6.37	<0.001
MWSR2	16.42	NA	ND	10.23	14.91	ND	10.23	6.19	NA
MWSR3	14.50	NA	ND	8.39	18.28	ND	8.39	6.11	NA
CITGO Onsite - Recovery Well									
RW01	29.16	0.7283	21.08	21.42	49.06	0.34	21.17	7.99	NA
RW02	28.44	0.7511	20.56	20.75	NM	0.19	20.61	7.83	NA
RW03R	28.01	0.8997	20.05	20.73	NM	0.68	20.12	7.89	NA
RW04R	28.46	0.8997	20.83	20.84	NM	0.01	20.83	7.63	NA
RW05	16.65	0.7724	10.36	11.96	NM	1.60	10.72	5.93	NA
RW06	13.98	0.7896	8.18	8.24	NM	0.06	8.19	5.79	NA
RW07	13.21	0.7901	7.37	8.43	NM	1.06	7.59	5.62	NA
RW08	12.67	0.7857	6.99	7.00	NM	0.01	6.99	5.68	NA
RW09	28.67	NA	ND	20.36	NM	ND	20.36	8.31	NA
RW10	27.98	NA	ND	20.02	39.96	ND	20.02	7.96	NA
RW11	28.33	NA	ND	20.63	37.64	ND	20.63	7.70	NA
RW12	28.84	0.8800	20.98	22.05	NM	1.07	21.11	7.73	NA
RW13	29.42	0.7990	20.88	23.67	NM	2.79	21.44	7.98	NA
RW14	28.18	0.8003	19.67	21.36	NM	1.69	20.01	8.17	NA
RW15	33.73	0.7999	25.02	27.10	NM	2.08	25.44	8.29	NA
RW16	10.48	NA	ND	4.84	23.03	ND	4.84	5.64	NA
RW17	11.62	0.8112	5.93	6.08	NM	0.15	5.96	5.66	NA

BTOC - Below top of casing
TOC - Top of casing
MSL - Above mean sea level
NA - Not applicable or not analyzed
ND - Not detected
NM - Not measured
GW - Groundwater
LNAPL - Light non-aqueous phase liquid

Bold Numbers - Benzene concentration that exceeds the Environmental Protection Agency's (EPA) Maximum Contaminant Level (MCL) - 0.005 mg/l

(1) When an apparent hydrocarbon thickness of <0.01 feet is reported, it denotes that hydrocarbon was detected without a distinguishable thickness.

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Offsite El Paso Observation and Monitoring Wells									
EMWU11T	24.73	NA	ND	16.96	29.23	ND	NA	7.77	<0.0002
EMWU12T	29.07	0.81	18.60	23.68	NM	5.08	19.57	9.50	NA
EMWU13T	25.53	0.81	15.31	18.94	NM	3.63	16.00	9.53	NA
EMWU16T	28.27	0.80	21.89	24.09	31.30	2.20	22.33	5.94	NA
EMWU17T	27.39	NA	ND	21.56	28.82	ND	NA	5.83	**4.72**
EMWU18T	26.84	0.87	21.12	22.51	NM	1.39	21.30	5.54	NA
EMWU19T	25.94	0.83	19.75	20.90	NM	1.15	19.95	5.99	NA
EMWU20T	29.85	0.83	23.41	25.22	NM	1.81	23.72	6.13	NA
EMWU21T	29.24	NA	ND	22.61	29.88	ND	NA	6.63	0.000482
EMWU22T	29.48	0.78	22.94	24.34	NM	1.40	23.25	6.23	NA
EMWU23T	32.32	0.88	25.36	26.57	NM	1.21	25.51	6.81	NA
EMWU24T	32.13	0.81	23.76	27.27	NM	3.51	24.43	7.70	NA
EMWU25T	30.18	0.84	22.02	24.92	NM	2.90	22.48	7.70	NA
EPCMW01	12.35	NA	ND	6.85	15.50	ND	NA	5.50	0.00232
EPCMW02	20.35	NA	ND	14.52	22.64	ND	NA	5.83	<0.0002
EPCMW03	23.14	NA	ND	16.53	22.89	ND	NA	6.61	<0.0002
EPCMW04	29.78	NA	ND	23.34	32.80	ND	NA	6.44	**0.0212**
EPCMW05	27.74	NA	ND	21.57	28.60	ND	NA	6.17	**0.0362**
EPZ16	26.04	NA	ND	12.32	26.23	ND	NA	13.72	NA
Offsite El Paso Recovery Wells									
EMWU14T	27.89	0.78	20.00	23.18	NM	3.18	20.70	7.19	NA
EMWU15T	28.39	0.80	21.61	22.98	NM	1.37	21.88	6.51	NA
EPZ13	28.22	0.80	21.08	23.59	NM	2.51	21.58	6.64	NA
EPZ14	28.50	0.80	20.56	24.31	NM	3.75	21.31	7.19	NA
EPZ15	27.91	0.80	19.41	24.37	NM	4.96	20.40	7.51	NA
EPZ17	26.39	0.80	17.43	22.43	NM	5.00	18.43	7.96	NA
Offsite Elementis Chromium Observation and Monitoring Wells									
MWU05	27.34	NA	ND	21.26	32.64	ND	NA	6.08	0.00141
OWL04	19.32	NA	ND	12.89	85.25	ND	NA	6.43	0.000678
OWL15	21.50	NA	ND	17.61	53.86	ND	NA	3.89	<0.0002
OWL18	9.16	NA	ND	6.11	74.80	ND	NA	3.05	<0.0002
OWU21	34.71	NA	ND	28.22	45.85	ND	NA	6.49	0.00422
OWU23	19.50	NA	ND	15.06	27.40	ND	NA	4.44	**0.00504**
OWU37	9.22	NA	ND	5.11	9.55	ND	NA	4.11	0.00127
OWU38	13.99	NA	ND	10.66	13.20	ND	NA	3.33	**0.00635**
OWU41	30.00	NA	ND	23.09	35.60	ND	NA	6.91	NA
OWU42	28.48	NA	ND	21.83	30.95	ND	NA	6.65	<0.0002
OWU43	27.02	NA	ND	21.05	27.43	ND	NA	5.97	**549**
OWU46	28.49	NA	ND	22.29	28.29	ND	NA	6.20	**0.0141**
TH38	10.47	NA	ND	8.12	22.10	ND	NA	2.35	<0.0002
TH39	14.04	NA	ND	11.64	16.20	ND	NA	2.40	<0.0002
Elementis Chromium Recovery Wells									
RWEC01	25.35	0.81	16.22	18.25	NM	2.03	16.61	8.74	NA
RWEC02	24.73	0.81	14.78	18.43	NM	3.65	15.47	9.26	NA
RWEC03	26.52	0.87	26.76	27.35	NM	0.59	26.84	-0.32	NA
RWEC04	26.81	0.87	21.93	21.95	NM	0.02	21.93	4.88	NA

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RWEC05	31.65	0.81	24.41	26.53	NM	2.12	24.81	6.84	NA
RWEC06	29.89	0.83	24.11	24.45	NM	0.34	24.17	5.72	NA
RWEC07	28.17	0.84	24.95	26.39	NM	1.44	25.18	2.99	NA
RWEC08	27.79	0.88	22.75	26.15	NM	3.40	23.16	4.63	NA
RWEC09	28.92	0.86	22.79	24.25	NM	1.46	22.99	5.93	NA
RWEC10	29.97	0.88	24.01	25.35	NM	1.34	24.17	5.80	NA
RWEC11	28.70	0.88	22.18	25.91	NM	3.73	22.63	6.07	NA
RWEC12	29.36	0.88	23.76	26.99	NM	3.23	24.15	5.21	NA
RWEC13	24.04	0.88	14.55	19.12	NM	4.57	15.10	8.94	NA
RWEC14	24.47	NA	ND	15.90	NM	ND	NA	8.57	NA
RWEC15	23.92	0.88	15.24	18.33	NM	3.09	15.61	8.31	NA
OWU40	23.88	0.80	14.62	16.19	NM	1.57	14.93	8.95	NA
Offsite Encycle Monitor Wells									
ENCMW01	19.56	NA	ND	13.90	19.19	ND	NA	5.66	0.00111
Offsite Elementis Chromium Supplemental Observation and Monitor Wells									
Cofferdam	8.20	NA	ND	9.20	NM	ND	9.20	-1.00	NA
DG-01	13.17	0.86	10.74	11.71	NM	0.97	10.88	2.29	NA
DG-02	13.67	0.86	11.22	11.94	NM	0.72	11.32	2.35	NA
DG-03	14.05	0.86	11.76	11.90	NM	0.14	11.78	2.27	NA
DG-04	13.72	0.86	11.34	12.97	NM	1.63	11.57	2.15	NA
EMW-L34T	30.15	NA	ND	23.75	NM	ND	NA	6.40	NA
EMW-L35B	30.11	NA	ND	24.07	NM	ND	NA	6.04	NA
EMW-L36T	29.16	NA	ND	23.10	NM	ND	NA	6.06	NA
EMW-L37T	29.88	NA	ND	23.96	NM	ND	NA	5.92	NA
EMW-L38T	28.68	NA	ND	23.85	NM	ND	NA	4.83	NA
EMW-L39T	28.42	NA	ND	24.05	NM	ND	NA	4.37	NA
EMW-L41T	27.54	NA	ND	22.05	NM	ND	NA	5.49	NA
EMW-L6T	23.03	NA	ND	18.10	NM	ND	NA	4.93	NA
EMW-L8T	27.09	NA	ND	22.66	NM	ND	NA	4.43	NA
EMW-L9T	27.86	NA	ND	23.59	NM	ND	NA	4.27	NA
EMW-U10T	28.01	NA	ND	25.14	NM	ND	NA	2.87	NA
EMW-U1T	21.52	NA	ND	17.74	NM	ND	NA	3.78	NA
EMW-U26T	29.44	NA	ND	22.66	NM	ND	NA	6.78	NA
EMW-U27T	29.17	0.88	22.44	24.39	NM	1.95	22.67	6.50	NA
EMW-U28T	28.46	NA	ND	22.12	NM	ND	NA	6.34	NA
EMW-U29T	27.82	NA	ND	23.00	NM	ND	NA	4.82	NA
EMW-U2T	25.43	NA	ND	22.30	NM	ND	NA	3.13	NA
EMW-U30T	25.05	NA	ND	19.68	NM	ND	NA	5.37	NA
EMW-U31T	26.59	NA	ND	21.42	NM	ND	NA	5.17	NA
EMW-U32T	27.17	NA	ND	21.57	NM	ND	NA	5.60	NA
EMW-U33T	13.36	NA	ND	9.04	NM	ND	NA	4.32	NA
EMW-U3T	10.58	NA	ND	8.17	NM	ND	NA	2.41	NA
EMW-U40T	29.85	NA	ND	23.00	NM	ND	NA	6.85	NA
EMW-U41T	27.51	NA	ND	21.60	NM	ND	NA	5.91	NA
EMW-U42T	27.08	NA	ND	21.47	NM	ND	NA	5.61	NA
EMW-U4T	14.40	NA	ND	12.49	NM	ND	NA	1.91	NA
EMW-U6T	23.24	NA	ND	19.09	NM	ND	NA	4.15	NA
EMW-U7B	27.97	NA	ND	25.14	NM	ND	NA	2.83	NA
EPZ-01	27.09	NA	ND	24.28	NM	ND	NA	2.81	NA

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Well ID	TOC Elevation (ft. MSL)	Specific Gravity	Depth to LNAPL (ft. BTOC)	Depth to GW (ft. BTOC)	Total Well Depth (ft. BTOC)	Apparent LNAPL Thickness (ft.)	Corrected Depth to GW (ft. BTOC)	Corrected GW Elevation (ft. MSL)	Benzene (mg/l)
EPZ-02	26.86	NA	ND	23.51	NM	ND	NA	3.35	NA
EPZ-03	28.41	0.86	24.89	24.90	NM	0.01	24.89	3.52	NA
EPZ-04	11.06	NA	ND	9.17	NM	ND	NA	1.89	NA
EPZ-05	11.80	NA	ND	8.18	NM	ND	NA	3.62	NA
EPZ-06	12.68	0.90	8.88	9.21	NM	0.33	8.91	3.77	NA
EPZ-07	13.43	NA	ND	10.58	NM	ND	NA	2.85	NA
EPZ-08	15.65	NA	ND	13.45	NM	ND	NA	2.20	NA
EPZ-09	26.69	0.86	20.99	22.83	NM	1.84	21.25	5.44	NA
EPZ-11	28.35	0.86	22.26	24.87	NM	2.61	22.63	5.72	NA
EPZ-12	27.78	0.85	23.24	24.36	NM	1.12	23.41	4.37	NA
LPZ-01	28.82	NA	ND	20.25	NM	ND	NA	8.57	NA
LPZ-02	31.04	NA	ND	23.83	NM	ND	NA	7.21	NA
LPZ-03	30.09	NA	ND	22.20	NM	ND	NA	7.89	NA
LPZ-04	30.99	NA	ND	23.90	NM	ND	NA	7.09	NA
LPZ-05	30.34	0.88	23.01	27.80	NM	4.79	23.60	6.74	NA
LPZ-06	29.24	NA	ND	22.53	NM	ND	NA	6.71	NA
LPZ-07	28.02	NA	ND	21.40	NM	ND	NA	6.62	NA
LPZ-08	29.31	NA	ND	22.91	NM	ND	NA	6.40	NA
LPZ-09	28.33	0.88	21.25	24.11	NM	2.86	21.60	6.73	NA
LPZ-10	28.37	0.88	21.32	25.21	NM	3.89	21.80	6.57	NA
LPZ-11	28.9	NA	ND	22.37	NM	ND	NA	6.53	NA
LPZ-12	28	0.88	20.99	25.77	NM	4.78	21.58	6.42	NA
LPZ-13	29.32	NA	ND	23.04	NM	ND	NA	6.28	NA
LPZ-14	28.88	0.88	22.38	24.90	NM	2.52	22.69	6.19	NA
LPZ-15	28.73	NA	ND	22.63	NM	ND	NA	6.10	NA
LPZ-16	28.61	0.88	21.83	26.20	NM	4.37	22.36	6.25	NA
LPZ-17	25.78	0.88	19.05	23.12	NM	4.07	19.55	6.23	NA
LPZ-18	26.18	0.80	20.07	20.19	NM	0.12	20.09	6.09	NA
LPZ-19	29.38	NA	ND	23.37	NM	ND	NA	6.01	NA
LPZ-20	27.87	NA	ND	22.08	NM	ND	NA	5.79	NA
LPZ-21	28.02	0.88	21.71	24.62	NM	2.91	22.07	5.95	NA
LPZ-22	28.1	0.88	22.38	24.22	NM	1.84	22.61	5.49	NA
LPZ-23	28.97	NA	ND	23.39	NM	ND	NA	5.58	NA
LPZ-24	25.13	0.80	19.53	19.64	NM	0.11	19.55	5.58	NA
LPZ-25	24.08	0.88	18.70	19.68	NM	0.98	18.82	5.26	NA
LPZ-26	24.81	NA	ND	19.50	NM	ND	NA	5.31	NA
LPZ-27	27.34	0.88	21.79	26.42	NM	4.63	22.36	4.98	NA
LPZ-28	25.45	0.88	20.11	24.45	NM	4.34	20.64	4.81	NA
LPZ-29	28.54	NA	ND	23.10	NM	ND	NA	5.44	NA
LPZ-30	27.32	NA	ND	21.79	NM	ND	NA	5.53	NA
LPZ-31	27.46	0.80	21.06	23.89	NM	2.83	21.63	5.83	NA
LPZ-32	28.22	NA	ND	23.83	NM	ND	NA	4.39	NA
LPZ-33	27.14	NA	ND	21.78	NM	ND	NA	5.36	NA
LPZ-34	26.49	NA	ND	22.60	NM	ND	NA	3.89	NA
LPZ-35	24.82	NA	ND	21.33	NM	ND	NA	3.49	NA
LPZ-37	26.18	NA	ND	21.32	NM	ND	NA	4.86	NA
LPZ-38	26.57	0.86	22.70	22.71	NM	0.01	22.70	3.87	NA
LPZ-39	27.12	NA	ND	22.22	NM	ND	NA	4.90	NA
LPZ-40	26.94	NA	ND	21.22	NM	ND	NA	5.72	NA

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LPZ-41	25.8	NA	ND	20.68	NM	ND	NA	5.12	NA
LPZ-44	25.75	NA	ND	21.07	NM	ND	NA	4.68	NA
MW-L14	27.31	NA	ND	22.89	NM	ND	NA	4.42	NA
MW-U25	13.19	0.86	11.00	11.06	NM	0.06	11.01	2.18	NA
MW-U27	13.82	0.86	11.44	12.17	NM	0.73	11.54	2.28	NA
MW-U28	13.01	NA	ND	10.61	NM	ND	NA	2.40	NA
MW-U29	12.30	NA	ND	23.47	NM	ND	NA	-11.17	NA
MW-U31	13.29	NA	ND	10.84	NM	ND	NA	2.45	NA
MW-U33	26.41	0.86	22.87	26.60	NM	3.73	23.39	3.02	NA
MW-U34	29.47	0.88	24.52	28.48	NM	3.96	25.00	4.47	NA
MW-U36	10.97	NA	ND	6.84	NM	ND	NA	4.13	NA
MW-U37	27.98	NA	ND	22.04	NM	ND	NA	5.94	NA
MW-U38	27.14	NA	ND	21.27	NM	ND	NA	5.87	NA
OW-L08	25.03	NA	ND	20.70	NM	ND	NA	4.33	NA
OW-L1	27.12	NA	ND	23.48	NM	ND	NA	3.64	NA
OW-L14R	27.5	NA	ND	22.83	NM	ND	NA	4.67	NA
OW-L25	21.36	NA	ND	17.21	NM	ND	NA	4.15	NA
OW-U25	32.28	0.81	22.68	32.72	NM	10.04	24.57	7.71	NA
OW-U26	29.27	NA	ND	22.42	NM	ND	NA	6.85	NA
OW-U27	29.13	0.83	22.55	24.31	NM	1.76	22.84	6.29	NA
OW-U28	27.40	NA	ND	21.70	NM	ND	NA	5.70	NA
OW-U31	29.09	0.87	22.31	23.59	NM	1.28	22.47	6.62	NA
OW-U32	29.47	0.88	22.29	26.09	NM	3.80	22.76	6.71	NA
OW-U33	30.44	0.79	22.38	24.80	NM	2.42	22.90	7.54	NA
OW-U36	11.91	NA	ND	5.91	NM	ND	NA	6.00	NA
OW-U44	28.23	0.87	22.67	25.40	NM	2.73	23.04	5.19	NA
OW-U47	27.21	NA	ND	22.25	NM	ND	NA	4.96	NA
OW-U48	28.60	0.88	21.85	26.64	NM	4.79	22.44	6.16	NA
OW-U49	27.99	0.88	21.20	26.00	NM	4.80	21.79	6.20	NA
PZ-10	11.74	0.86	10.01	10.53	NM	0.52	10.08	1.66	NA
PZ-5	14.62	NA	ND	12.45	NM	ND	NA	2.17	NA
PZ-6	14.53	NA	ND	12.38	NM	ND	NA	2.15	NA
PZ-7	13.93	NA	ND	11.47	NM	ND	NA	2.46	NA
PZ-9	11.79	NA	ND	9.46	NM	ND	NA	2.33	NA
T-11	24.74	0.85	19.68	20.82	NM	1.14	19.86	4.88	NA
T-12	11.54	NA	ND	6.47	NM	ND	NA	5.07	NA

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Offsite Elementis Chromium Supplemental Recovery Wells									
MW-U32	13.35	NA	ND	15.91	NM	ND	NA	-2.56	NA
MW-U26A	14.80	NA	ND	14.60	NM	ND	NA	0.20	NA
R-1	14.26	NA	ND	14.61	NM	ND	NA	-0.35	NA
R-2	14.86	0.86	14.14	14.15	NM	0.01	14.14	0.72	NA
R-3	14.99	0.86	13.92	13.97	NM	0.05	13.93	1.06	NA
R-4	12.45	NA	ND	13.03	NM	ND	NA	-0.58	NA
RW-01	13.67	0.86	11.91	14.08	NM	2.17	12.22	1.45	NA
RW-02	10.91	NA	ND	16.67	NM	ND	NA	-5.76	NA
RW-03	14.88	0.86	15.21	15.37	NM	0.16	15.23	-0.35	NA

BTOC - Below top of casing
GW - Groundwater
MSL - Above mean sea level
NA - Not applicable or not analyzed
ND - Not detected
NM - Not measured
LNAPL - Light non-aqueous phase liquid
TOC - Top of casing

Bold Numbers - Benzene concentration that exceeds the Environmental Protection Agency's (EPA) Maximum Contaminant Level (MCL) - 0.005 mg/l

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Flint Hills Resources East Refinery - Monitoring Well									
IH37-1	25.33	NA	ND	17.08	NM	ND	NA	8.25	0.00043 J
IH37-2	24.18	NA	ND	16.14	NM	ND	NA	8.04	**0.022**
IH37-3	23.74	NA	ND	15.32	NM	ND	NA	8.42	<0.002
IH37-4	23.59	NA	ND	15.33	NM	ND	NA	8.26	**0.22**
IH37-5	23.42	NA	ND	14.91	NM	ND	NA	8.51	<0.002
IH37-6	24.07	NA	ND	15.81	NM	ND	NA	8.26	<0.002
IH37-7	23.09	NA	ND	14.74	NM	ND	NA	8.35	<0.002
IH37-8	24.27	NA	ND	15.35	NM	ND	NA	8.92	<0.002
IH37-9	25.21	NA	ND	16.38	NM	ND	NA	8.83	<0.002
IH37-10	24.36	NA	ND	15.72	NM	ND	NA	8.64	<0.002
IH37-11	23.1	NA	ND	15.06	NM	ND	NA	8.04	<0.002
IH37-12	23.39	NA	ND	15.42	NM	ND	NA	7.97	<0.002
IH37-13	24.72	NA	ND	16.11	NM	ND	NA	8.61	<0.002
M-2	23.73	0.75	15.09	16.29	NM	1.2	NA	8.34	NA
MW-1	25.72	NA	ND	18.7	NM	ND	NA	7.02	<0.002
MW-4	27.5	NA	ND	21.26	NM	ND	NA	6.24	<0.002
MW-6	24.15	NA	ND	17.69	NM	ND	NA	6.46	**0.0275**
MW-9	6.01	NA	ND	4.07	NM	ND	NA	1.94	**0.0072**
MW-10	22.78	0.75	15.58	15.98	NM	0.40	NA	7.10	NA
MW-11	22.72	0.7500	15.08	16.70	NM	1.62	NA	7.23	NA
MW-13	23.52	0.7500	15.65	17.69	NM	2.04	NA	7.35	NA
MW-14	25.78	NA	ND	17.91	NM	ND	NA	7.87	0.0025 J
MW-16	22.35	0.7500	14.70	15.58	NM	0.88	NA	7.42	NA
MW-17	22.49	0.7500	14.99	15.03	NM	0.04	NA	7.49	**0.31**
MW-18R	24.99	0.7500	17.32	17.80	NM	0.48	NA	7.55	NA
MW-19	22.67	0.7500	14.82	14.92	NM	0.10	NA	7.82	NA
MW-20	23.41	NA	ND	15.80	NM	ND	NA	7.61	<0.002
MW-22	23.94	NA	ND	16.81	NM	ND	NA	7.13	<0.002
MW-23	23.64	0.75	16.18	17.60	NM	1.42	NA	7.10	NA
MW-24	23.83	NA	ND	16.88	NM	ND	NA	6.95	**0.027**
MW-25R	27.71	0.75	19.74	21.15	NM	1.41	NA	7.62	NA
MW-26	21.57	NA	ND	14.96	NM	ND	NA	6.61	**0.058**
MW-27	26.11	NA	ND	19.61	NM	ND	NA	6.50	**12**
MW-28R	23.3	NA	ND	16.21	NM	ND	NA	7.09	**0.77**
MW-29R	23.62	NA	ND	16.45	NM	ND	NA	7.17	**160**
MW-31	24.36	0.75	16.62	17.08	NM	0.46	NA	7.63	NA
MW-32	23.94	0.75	16.41	17.56	NM	1.15	NA	7.24	NA
MW-33	25.54	0.75	17.72	17.91	NM	0.19	NA	7.77	NA
MW-34	22.50	0.7500	15.31	16.07	NM	0.76	NA	6.99	NA
MW-35	23.14	0.7500	15.68	16.00	NM	0.32	NA	7.38	NA
MW-36	24.52	NA	ND	17.39	NM	ND	NA	7.13	<0.002
MW-37	25.73	0.7500	18.38	18.92	NM	0.54	NA	7.21	NA
MW-38	24.08	NA	ND	17.11	NM	ND	NA	6.97	NA
MW-39	22.87	0.7500	16.21	16.40	NM	0.19	NA	6.61	NA
MW-51	26.32	NA	ND	18.98	NM	ND	NA	7.34	<0.002

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MW-53	23.82	NA	ND	17.29	NM	ND	NA	6.53	**0.0602**
MW-55	7.05	0.7500	2.00	2.03	NM	0.03	NA	5.04	NA
MW-58	8.97	0.7500	5.21	5.23	NM	0.02	NA	3.76	NA
MW-60	7.06	NA	ND	2.44	NM	ND	NA	4.62	**0.0157**
MW-61	22.63	0.75	15.38	15.66	NM	0.28	NA	7.18	NA
MW-62	22.57	0.75	15.41	15.65	NM	0.24	NA	7.10	NA
MW-67	26.07	NA	ND	18.65	NM	ND	NA	7.42	0.0049 J
MW-68	22.29	NA	ND	14.78	NM	ND	NA	7.51	0.0023
MW-69	22.88	0.75	15.32	15.41	NM	0.09	NA	7.54	NA
MW-73	23.28	NA	ND	15.54	NM	ND	NA	7.74	<0.002
MW-74	31.37	NA	ND	10.21	NM	ND	NA	21.16	NA
MW-76	6.77	NA	ND	5.22	NM	ND	NA	1.55	<0.002
MW-77	11.48	NA	ND	10.76	NM	ND	NA	0.71	<0.002
MW-78	6.32	NA	ND	6.70	NM	ND	NA	-0.38	<0.002
MW-79	11.11	NA	ND	10.35	NM	ND	NA	0.76	NA
MW-80	6.66	NA	ND	5.75	NM	ND	NA	0.91	<0.002
MW-81	6.48	NA	ND	5.93	NM	ND	NA	0.55	<0.002
MW-82	10.15	NA	ND	8.62	NM	ND	NA	1.53	NA
MW-85	7.76	NA	ND	6.22	NM	ND	NA	1.54	**0.0188**
MW-86	6.72	NA	ND	5.75	NM	ND	NA	0.97	<0.002
MW-87	8.40	0.7500	5.09	5.10	NM	0.01	NA	3.31	**1.6**
MW-88	11.10	NA	ND	9.35	NM	ND	NA	1.75	<0.002
MW-89	Well Damaged								
MW-90	9.51	NA	ND	6.85	NM	ND	NA	2.66	NA
MW-91	4.68	NA	ND	2.50	NM	ND	NA	2.18	NA
MW-92	11.21	NA	ND	8.39	NM	ND	NA	2.82	NA
MW-93	Dry								
MW-94	28.06	NA	ND	21.45	NM	ND	NA	6.61	**0.0136**
MW-95	28.84	NA	ND	21.97	NM	ND	NA	6.87	<0.002
MW-96	25.13	NA	ND	18.83	NM	ND	NA	6.30	<0.002
MW-97	12.77	NA	ND	10.51	NM	ND	NA	2.26	NA
MW-98	10.22	NA	4.75	4.78	NM	0.03	NA	5.44	0.00238
MW-99	12.07	NA	ND	10.65	NM	ND	NA	1.42	NA
MW-100	7.96	NA	ND	7.10	NM	ND	NA	0.86	<0.002
MW-101	8.07	NA	ND	8.52	NM	ND	NA	-0.45	NA
MW-102	8.47	0.7500	3.61	3.64	NM	0.03	NA	4.85	NA
MW-103	25.00	NA	ND	17.78	NM	ND	NA	7.22	<0.002
MW-105	23.31	NA	ND	16.13	NM	ND	NA	7.18	<0.002
MW-106	23.05	NA	ND	16.04	NM	ND	NA	7.01	**0.067**
MW-108	23.96	0.7500	15.39	17.79	NM	2.40	NA	7.96	NA
MW-110	24.54	0.7500	16.83	17.48	NM	0.65	NA	7.54	NA
MW-111	23.35	0.7500	15.40	15.96	NM	0.56	NA	7.81	NA
MW-112	12.76	NA	ND	12.62	NM	ND	NA	0.14	0.00037 J
MW-113	13.74	NA	ND	12.19	NM	ND	NA	1.55	<0.002
MW-114	13.22	NA	ND	11.53	NM	ND	NA	1.69	<0.002
MW-115	7.23	NA	ND	3.97	NM	ND	NA	3.26	**0.013**

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P-101	12.25	NA	ND	7.83	NM	ND	NA	4.42	0.00011 J
P-103	14.10	NA	ND	9.03	NM	ND	NA	5.07	**0.00831 J**
Flint Hills Resources East Refinery - Onsite - Recovery Wells									
R-1	22.62	NA	ND	30.24	NM	ND	NA	-7.62	NA
R-1	22.62	NA	ND	30.27	NM	ND	NA	-7.65	NA
R-2	21.86	NA	ND	29.94	NM	ND	NA	-8.08	NA
R-3	25.50	0.7500	26.43	26.49	NM	0.06	NA	-0.94	NA
R-4	22.66	NA	ND	30.91	NM	ND	NA	-8.25	NA
R-5	24.12	NA	ND	33.42	NM	ND	NA	-9.30	NA
R-7	26.69	0.7500	27.96	28.01	NM	0.05	NA	-1.28	NA
R-8	24.07	0.7500	32.72	32.74	NM	0.02	NA	-8.65	NA
R-9	23.39	NA	ND	30.95	NM	ND	NA	-7.56	NA
R-9	23.39	NA	ND	19.86	NM	ND	NA	3.53	NA
R-10	27.89	0.7500	30.96	30.98	NM	0.02	NA	-3.08	NA
R-11	22.82	NA	ND	33.31	NM	ND	NA	-10.50	NA
R-12	25.85	NA	ND	35.39	NM	ND	NA	-9.54	NA
R-13	24.32	NA	ND	17.03	NM	ND	NA	7.29	NA
R-14	26.84	0.7500	19.71	19.72	NM	0.01	NA	7.12	NA
R-15	24.57	NA	ND	17.58	NM	ND	NA	6.99	NA
Flint Hills Resources East Refinery - Buffer Zone - Temporary Monitoring Wells									
TMW-1	23.59	NA	ND	16.68	19.91	ND	NA	6.91	<0.002
TMW-2	24.24	NA	ND	17.83	19.26	ND	NA	6.41	<0.002
TMW-3	23.75	NA	ND	17.14	19.25	ND	NA	6.61	<0.002
TMW-4	24.27	NA	ND	17.89	19.43	ND	NA	6.38	<0.002
TMW-5	27.63	NA	ND	21.24	20.97	ND	NA	6.39	<0.002
TMW-6	27.53	NA	ND	23.20	30.77	ND	NA	4.33	<0.002
TMW-7	8.08	NA	ND	3.65	9.62	ND	NA	4.43	<0.002
TMW-8	7.24	NA	ND	3.60	14.36	ND	NA	3.64	0.0021
Flint Hills Resources East Refinery - Buffer Zone - Monitoring Wells									
MW-118	25.21	NA	ND	17.27	22.00	ND	NA	7.94	<0.000096
MW-119	25.53	NA	ND	18.15	31.00	ND	NA	7.38	<0.000096
MW-120	25.86	NA	ND	19.15	27.00	ND	NA	6.71	<0.000096
MW-121	20.01	NA	ND	14.42	18.00	ND	NA	5.59	<0.000096
MW-122	9.73	NA	ND	4.67	12.00	ND	NA	5.06	<0.000096

BTOC - Below top of casing
TOC - Top of casing
MSL - Above mean sea level
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ND - Not detected
NM - Not measured
GW - Groundwater
LNAPL - Light non-aqueous phase liquid

Bold Numbers - Benzene concentration that exceeds the Environmental Protection Agency's (EPA) Maximum Contaminant Level (MCL) - 0.005 mg/l

Table 2
October 2009 Well Gauging and Analytical Results
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April 2010

Well ID	TOC Elevation (ft. MSL)	Specific Gravity	Depth to LNAPL (ft. BTOC)	Depth to GW (ft. BTOC)	Total Well Depth (ft. BTOC)	Apparent LNAPL Thickness (ft.)	Corrected Depth to GW (ft. BTOC)	Corrected GW Elevation (ft. MSL)	Benzene (mg/l)
Flint Hills Resources Mid Terminal - Onsite - Monitoring Well									
DW-T1	39.67	NA	ND	22.02	NM	ND	NA	17.65	<0.002
HC-10	37.85	NA	ND	17.67	NM	ND	NA	20.18	<0.002
HC-17	39.35	NA	ND	21.13	NM	ND	NA	18.22	**1.4**
MW-T1	43.79	NA	ND	23.54	NM	ND	NA	20.25	<0.002
MW-T2	40.79	0.74	19.91	20.24	NM	0.33	NA	20.79	NA
MW-T3	39.56	0.89	18.63	19.05	NM	0.42	NA	20.88	NA
MW-T4	42.72	NA	ND	23.49	NM	ND	NA	19.23	**0.052**
MW-T6	39.09	0.75	19.15	19.19	NM	0.04	NA	19.93	NA
MW-T7	39.45	0.76	20.78	20.82	NM	0.04	NA	18.66	NA
MW-T8	39.46	0.75	21.15	21.47	NM	0.32	NA	18.23	NA
MW-T9	39.39	NA	ND	21.01	NM	ND	NA	18.38	**0.9**
RW2-1	37.09	NA	ND	21.21	NM	ND	NA	15.88	**2.2**
RW2-3	39.87	NA	ND	21.46	NM	ND	NA	18.41	**17**
RW2-4	39.72	0.75	21.26	21.27	NM	0.01	NA	18.46	NA
RW2-5	39.91	NA	ND	21.05	NM	ND	NA	18.86	**1.8**
RW2-6	39.54	NA	ND	20.5	NM	ND	NA	19.04	**0.043**
RW2-9	40.64	NA	ND	19.98	NM	ND	NA	20.66	**47**
RW2-12	42.65	NA	ND	23.13	NM	ND	NA	19.52	**0.0057**

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Bold Numbers - Benzene concentration that exceeds the Environmental Protection Agency's (EPA) Maximum Contaminant Level (MCL) - 0.005 mg/l

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Hess Corporation On Site Magellan Terminal Monitoring Wells									
MW2	27.10	NA	ND	18.62	NM	ND	NA	8.48	<0.002
MW11	44.74	NA	ND	28.61	NM	ND	NA	16.13	<0.002
MW14D	27.21	NA	ND	19.34	NM	ND	NA	7.87	**5.35**
MW14R	26.83	NA	ND	9.90	NM	ND	NA	16.93	<0.002
MW17	32.78	NA	ND	21.64	NM	ND	NA	11.14	NA
MW34	39.72	NA	ND	23.22	NM	ND	NA	16.50	NA
MW37	42.25	NA	ND	24.48	NM	ND	NA	17.77	NA
MW48	41.77	NA	ND	26.52	NM	ND	NA	15.25	NA
MW53	29.90	NA	ND	12.93	NM	ND	NA	16.97	<0.002
Hess Corporation On Site Magellan Terminal Observation Wells									
MW1	27.82	0.7694	18.31	19.51	NM	1.20	NA	9.23	NA
MW3	27.17	0.7941	17.91	19.45	NM	1.54	NA	8.94	NA
MW4	28.37	0.7715	18.00	20.10	NM	2.10	NA	9.89	NA
MW5	33.47	0.7954	ND	14.53	NM	ND	NA	18.94	NA
MW6R	29.12	0.8040	21.33	22.89	NM	1.56	NA	7.48	NA
MW7	28.30	0.7892	NM	NM	NM	NM	NA	NM	NA
MW8	42.66	0.7927	31.00	33.29	NM	2.29	NA	11.19	NA
MW9	35.95	0.8049	18.15	18.78	NM	0.63	NA	17.67	NA
MW10	39.06	0.7963	24.98	24.99	NM	0.01	NA	14.08	NA
MW12	41.61	0.8054	ND	21.55	NM	ND	NA	20.06	NA
MW13	47.60	0.7420	26.94	29.10	NM	2.16	NA	20.10	NA
MW16	30.03	0.7732	20.66	22.34	NM	1.68	NA	8.99	NA
MW22	29.34	0.8054	ND	20.60	NM	ND	NA	8.74	NA
MW28	31.57	0.7914	21.53	25.82	NM	4.29	NA	9.15	NA
MW31	30.36	0.7563	20.88	22.05	NM	1.17	NA	9.19	NA
MW32	36.72	0.7896	NM	NM	NM	NM	NA	NM	NA
MW33	33.75	0.9279	16.65	18.43	NM	1.78	NA	16.97	NA
MW35	40.11	0.8132	22.14	23.20	NM	1.06	NA	17.77	NA
MW36	45.34	0.8378	25.50	25.74	NM	0.24	NA	19.80	NA
MW38	43.24	0.7839	29.84	34.51	NM	4.67	NA	12.39	NA
MW39	42.95	0.7632	29.12	30.56	NM	1.44	NA	13.49	NA
MW40	40.22	0.8026	20.51	21.43	NM	0.92	NA	19.53	NA
MW41	30.90	0.7539	11.09	11.64	NM	0.55	NA	19.67	NA
MW45	26.54	0.8067	ND	17.90	NM	ND	NA	8.64	NA
MW46	31.31	0.8000	ND	16.00	NM	ND	NA	15.31	NA
MW47	31.37	NA	ND	12.40	NM	ND	NA	18.97	NA
MW49	41.13	0.8000	26.19	26.93	NM	0.74	NA	14.79	NA
MW52	45.49	0.7999	ND	25.74	NM	ND	NA	19.75	NA
MW55	40.60	0.7999	ND	20.65	NM	ND	NA	19.95	NA
MW56	40.04	0.7999	ND	20.76	NM	ND	NA	19.28	NA
MW58	39.23	0.7985	23.19	25.39	NM	2.20	NA	15.60	NA
MW60	41.38	0.7985	ND	26.74	NM	ND	NA	14.64	NA
MW61	39.79	0.7985	23.85	23.86	NM	0.01	NA	15.94	NA
MW62	42.31	0.8000	29.65	30.53	NM	0.88	NA	12.48	NA
MW63	40.22	0.8100	ND	22.26	NM	ND	NA	17.96	NA
MW64	41.56	0.8300	ND	22.65	NM	ND	NA	18.91	NA
Hess Corporation On Site Magellan Terminal Pumping Wells									
MW15	31.17	0.7612	NM	NM	NM	NM	NA	NM	NA
MW16R	31.20	0.7732	NM	NM	NM	NM	NA	NM	NA
MW18	42.69	0.7985	ND	29.10	NM	ND	NA	13.59	NA
MW19	30.47	0.7936	NM	NM	NM	NM	NA	NM	NA

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Revised: 5/14/2010

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MW20	30.14	0.7620	NM	NM	NM	NM	NA	NM	NA
MW20R	30.80	0.7620	NM	NM	NM	NM	NA	NM	NA
MW21	30.52	0.7624	NM	NM	NM	NM	NA	NM	NA
MW21R	30.14	0.7624	NM	NM	NM	NM	NA	NM	NA
MW23	30.74	0.7999	NM	NM	NM	NM	NA	NM	NA
MW24	31.15	0.7963	23.51	25.87	NM	2.36	NA	7.16	NA
MW25	31.25	0.7941	NM	NM	NM	NM	NA	NM	NA
MW26	31.27	0.7999	NM	NM	NM	NM	NA	NM	NA
MW27	30.33	0.7999	NM	NM	NM	NM	NA	NM	NA
MW29	31.10	0.7923	NM	NM	NM	NM	NA	NM	NA
MW30	41.69	0.7927	28.35	31.33	NM	2.98	NA	12.72	NA
MW42	28.28	0.8008	19.46	19.53	NM	0.07	NA	8.81	NA
MW43	28.64	0.8100	19.96	20.11	NM	0.15	NA	8.65	NA
MW44	31.34	0.8049	23.31	23.46	NM	0.15	NA	8.00	NA
MW50	39.87	0.7985	24.78	24.79	NM	0.01	NA	15.09	NA
MW51	43.88	0.7416	22.85	25.15	NM	2.30	NA	20.44	NA
MW54	46.50	0.7999	25.54	27.91	NM	2.37	NA	20.49	NA
MW57	31.88	0.7985	NM	NM	NM	NM	NA	NM	NA
MW59	39.63	0.7985	ND	24.54	NM	ND	NA	15.09	NA
MW65	29.65	0.8100	22.22	22.26	NM	0.04	NA	7.42	NA
Hess Off Site Oak Park Triangle Monitoring Wells									
AZ1	39.19	NA	ND	24.54	NM	ND	NA	14.65	<0.002
AZ7	26.70	NA	ND	15.30	NM	ND	NA	11.40	NA
AZ10	39.68	NA	ND	23.60	NM	ND	NA	16.08	<0.002
AZ11	30.15	NA	ND	19.30	NM	ND	NA	10.85	<0.002
AZ12	25.25	NA	ND	16.94	NM	ND	NA	8.31	<0.002
AZ17	24.70	NA	ND	16.10	NM	ND	NA	8.60	<0.002
Hess Off Site Oak Park Triangle Observation Wells									
AZ2	26.37	0.7927	15.91	18.22	NM	2.31	NA	9.98	NA
AZ3	25.37	0.7972	16.05	19.01	NM	2.96	NA	8.72	NA
AZ4	25.70	0.8179	15.90	16.14	NM	0.24	NA	9.76	NA
AZ4D	25.57	NA	ND	17.12	NM	ND	NA	8.45	NA
AZ5	25.71	0.7883	16.16	18.69	NM	2.53	NA	9.01	NA
AZ5D	26.17	NA	ND	16.72	NM	ND	NA	9.45	NA
AZ6	30.91	0.8000	17.41	17.52	NM	0.11	NA	13.48	NA
AZ8	28.64	0.7941	15.99	16.85	NM	0.86	NA	12.47	NA
AZ9	25.89	0.7923	16.87	17.26	NM	0.39	NA	8.94	NA
AZ13	25.72	0.7972	16.15	18.70	NM	2.55	NA	9.05	NA
AZ14	25.96	0.7999	15.29	20.59	NM	5.30	NA	9.61	NA
AZ15	25.57	0.8044	14.86	20.54	NM	5.68	NA	9.60	NA
AZ16	26.23	0.8000	16.76	17.03	NM	0.27	NA	9.42	NA
AZ18	24.66	0.8299	15.43	19.98	NM	4.55	NA	8.46	NA
AZ19	25.75	0.7967	17.00	20.20	NM	3.20	NA	8.10	NA
AZ20	28.57	0.8026	17.10	18.31	NM	1.21	NA	11.23	NA

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Hess Off Site Oak Park Triangle Pumping Wells									
AZ21	24.96	0.7951	NM	NM	NM	NM	NA	NM	NA
AZ22	24.73	0.8030	NM	NM	NM	NM	NA	NM	NA
AZ23	24.84	0.7977	NM	NM	NM	NM	NA	NM	NA
AZ24	25.17	0.7987	NM	NM	NM	NM	NA	NM	NA
AZ25	25.20	0.7992	NM	NM	NM	NM	NA	NM	NA
AZ26	24.41	0.8000	NM	NM	NM	NM	NA	NM	NA

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(1) Specific Gravity values of 0.8000 are estimated
(2) Specific Gravity values of 0.8100 for new wells (2005) are estimated

Bold Numbers - Benzene concentration that exceeds the Environmental Protection Agency's (EPA) Maximum Contaminant Level (MCL) - 0.005 mg/l

Initial QA/QC: IHM 03/26/10
Final QA/QC: AGH 05/14/10
Revised: 5/14/2010

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Valero East Plant North (Complex 8 North) - Observation and Monitor Wells									
CS09	29.77	0.8080	22.35	26.59	38.47	4.24	23.16	6.61	NA
CS22	30.00	0.8067	22.64	26.14	47.34	3.50	23.32	6.68	NA
CS23	29.90	0.7853	22.72	24.33	44.30	1.61	23.07	6.83	NA
CS24	30.28	0.8697	23.93	26.47	43.90	2.54	24.26	6.02	NA
CS25	28.90	NA	ND	22.51	44.91	ND	NA	6.39	NA
CS26	29.16	NA	ND	22.10	51.01	ND	NA	7.06	NA
CS28A	25.83	0.7865	18.24	20.47	36.31	2.23	18.72	7.11	NA
DMW03	29.00	NA	ND	23.72	126.46	ND	NA	5.28	**0.100**
DW17	29.83	0.7851	22.77	23.47	35.20	0.70	22.92	6.91	NA
DW35	28.41	0.8059	16.36	22.29	28.60	5.93	17.51	10.90	NA
DW36	26.23	0.8195	16.14	19.63	36.19	3.49	16.77	9.46	NA
DW37	24.95	0.8051	15.46	18.26	25.01	2.80	16.01	8.94	NA
MW18	28.44	0.8382	20.29	21.82	42.76	1.53	20.54	7.90	NA
RW22P01	23.28	0.8017	12.63	15.80	19.59	3.17	13.26	10.02	NA
RW22P02	23.75	NA	ND	2.44	18.98	ND	NA	21.31	NA
RW44P01	25.94	0.8591	20.05	20.99	35.88	0.94	20.18	5.76	NA
RW44P02	26.65	NA	ND	20.81	36.31	ND	NA	5.84	NA
RW49P01	28.31	NA	22.61	22.61	43.00	ND	<0.01	5.70	NA
RW50P01	26.07	0.8304	19.30	23.78	35.83	4.48	20.06	6.01	NA
RW50P02	25.91	0.8251	19.39	21.93	35.67	2.54	19.83	6.08	NA
RW59P01	29.17	NA	ND	23.15	43.08	ND	NA	6.02	NA
RW64P01	27.45	0.8559	21.73	22.34	42.96	0.61	21.82	5.63	NA
RW65P01	29.61	0.8000	23.77	25.26	43.05	1.49	24.07	5.54	NA
RW67P01	30.38	0.8000	23.15	26.76	43.08	3.61	23.87	6.51	NA
Valero East Plant North (Complex 8 North) - Recovery Wells									
NO.01	27.99	0.8087	17.95	18.21	21.05	0.26	18.00	9.99	NA
NO.04	26.93	0.8268	16.36	16.64	16.80	0.28	16.41	10.52	NA
RW17	30.21	0.7974	22.73	28.48	32.17	5.75	23.89	6.32	NA
RW18	29.21	0.7928	21.44	23.49	32.78	2.05	21.86	7.35	NA
RW22	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW23	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW41	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW42	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW43	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW44	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW45	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW46	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW47	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW48	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW49	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW50	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW51	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW52	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW53	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW54	NM	ND	NM	NM	NM	NA	NA	NA	NA

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RW55	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW58	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW59	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW60	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW61	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW62	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW63	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW64	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW65	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW66	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW67	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW75	24.46	0.8000	14.53	15.60	40.90	1.07	14.74	9.72	NA
RW76	25.40	0.8000	14.11	18.66	42.98	4.55	15.02	10.38	NA
RW77	25.39	0.8000	13.60	19.61	41.08	6.01	14.80	10.59	NA
RW78	25.04	0.8000	12.91	20.47	40.96	7.56	14.42	10.62	NA
RW79	28.13	0.8000	16.98	21.58	44.58	4.60	17.90	10.23	NA
RW80	28.21	0.8000	17.35	21.48	42.36	4.13	18.18	10.03	NA
RW89	28.10	0.8000	16.68	21.33	43.55	4.65	17.61	10.49	NA
Valero East Plant South (Complex 8 South) - Observation and Monitor Wells									
CS11	36.00	0.8972	16.71	21.05	33.07	4.34	17.16	18.84	NA
CS14	43.81	0.8613	23.61	28.41	41.43	4.80	24.28	19.53	NA
CS16	45.23	NA	ND	24.82	42.27	ND	NA	20.41	<0.001
CS17	41.49	0.7939	24.39	25.65	41.46	1.26	24.65	16.84	NA
CS18	44.57	NA	ND	26.52	42.78	ND	NA	18.05	NA
DMW02	44.11	NA	ND	36.20	80.16	ND	NA	7.91	<0.001
DW08	37.84	0.7994	19.44	20.59	29.55	1.15	19.67	18.17	NA
DW10	40.80	0.7800	23.53	25.35	40.18	1.82	23.93	16.87	NA
DW16	40.01	0.7987	22.55	23.63	40.16	1.08	22.77	17.24	NA
DW26	44.64	NA	ND	27.71	29.17	ND	NA	16.93	<0.001
DW27	43.71	0.8074	26.59	29.01	40.14	2.42	27.06	16.65	NA
DW29	39.95	NA	ND	24.16	32.37	ND	NA	15.79	NA
DW30	44.84	0.7940	24.64	26.01	30.39	1.37	24.92	19.92	NA
DW31	40.49	0.8663	19.57	22.75	29.82	3.18	20.00	20.49	NA
DW32P01	39.48	0.8396	20.19	21.48	34.43	1.29	20.40	19.08	NA
DW32P02	39.41	0.8459	20.27	21.75	34.16	1.48	20.50	18.91	NA
DW33	35.79	NA	ND	18.35	22.32	ND	NA	17.44	**0.0185**
DW39	44.38	0.7717	34.46	37.77	50.71	3.31	35.22	9.16	NA
MW17	42.40	NA	ND	21.44	31.91	ND	NA	20.96	NA
MW22	31.44	NA	ND	23.54	42.13	ND	NA	7.90	**0.199**
MW23	28.10	0.8111	21.35	23.13	37.61	1.78	21.69	6.41	NA
RW24P01	29.28	0.8012	21.87	21.94	37.02	0.07	21.88	7.40	NA
RW24P02	28.51	0.8105	21.01	21.94	36.62	0.93	21.19	7.32	NA
RW35P01	40.85	0.7650	26.68	26.84	39.35	0.16	26.72	14.13	NA
RW38P01	40.94	0.7780	28.08	38.08	38.15	10.00	30.30	10.64	NA
RW40P01	43.68	0.9218	22.85	26.29	30.51	3.44	23.12	20.56	NA

Table 2
October 2009 Well Gauging and Analytical Results
Corpus Christi Inner Harbor Joint Semiannual Hydrocarbon Plume Status Report
April 2010

Well ID	TOC Elevation (ft. MSL)	Specific Gravity	Depth to LNAPL (ft. BTOC)	Depth to GW (ft. BTOC)	Total Well Depth (ft. BTOC)	Apparent LNAPL Thickness (ft.)	Corrected Depth to GW (ft. BTOC)	Corrected GW Elevation (ft. MSL)	Benzene (mg/l)
Valero East Plant South (Complex 8 South) - Recovery Wells									
DW32	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW15	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW24	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW35	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW38	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW39	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW40	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW56	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW57	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW72	28.35	0.8000	17.44	17.45	43.05	0.01	17.44	10.91	NA
RW73	28.58	0.8000	19.78	19.83	50.56	0.05	19.79	8.79	NA
RW74	32.76	0.8000	23.91	24.14	50.55	0.23	23.96	8.80	NA
RW81	38.38	NA	ND	26.22	45.44	ND	NA	12.16	NA
RW82	34.19	0.8000	18.93	24.24	38.51	5.31	19.99	14.20	NA
RW83	29.03	NA	ND	20.36	45.52	ND	NA	8.67	NA
RW84	39.43	0.8000	19.35	24.73	47.38	5.38	20.43	19.00	NA
RW85	39.55	0.8000	19.50	22.48	48.53	2.98	20.10	19.45	NA
RW86	40.17	NA	ND	20.25	50.54	ND	NA	19.92	NA
RW87	43.70	0.8000	23.85	27.52	43.56	3.67	24.58	19.12	NA
RW88	32.04	NA	ND	16.89	40.41	ND	NA	15.15	NA
RW90	31.39	0.8000	18.72	24.17	40.52	5.45	19.81	11.58	NA
Valero West Plant (Complex 7) - Observation and Monitor Wells									
DMW01	29.14	NA	nd	22.85	98.29	ND	NA	6.29	<0.001
DW05	39.54	0.8095	31.18	34.86	48.48	3.68	31.88	7.66	NA
DW06	36.29	0.7805	27.92	33.00	47.10	5.08	29.04	7.25	NA
DW11	42.34	0.7994	27.21	30.71	45.09	3.50	27.91	14.43	NA
DW14	17.13	NA	ND	10.22	25.39	ND	NA	6.91	NA
DW22	16.99	0.7740	10.87	12.48	16.39	1.61	11.23	5.76	NA
MW01	12.62	NA	ND	6.25	30.35	ND	NA	6.37	NA
MW07	41.45	0.8258	24.43	28.01	32.19	3.58	25.05	16.40	NA
MW08	28.25	0.7520	21.68	24.53	25.95	2.85	22.39	5.86	NA
MW09A	18.56	NA	NM	NM	NM	NA	NA	NA	NA
MW10	24.89	0.8539	16.96	22.66	25.63	5.70	17.79	7.10	NA
MW11	45.42	NA	ND	30.02	50.47	ND	NA	15.40	<0.001
MW12A	14.50	NA	ND	8.82	24.57	ND	NA	5.68	<0.001
MW13	29.86	NA	ND	14.23	19.18	ND	NA	15.63	NA
MW14	37.49	NA	ND	21.65	32.25	ND	NA	15.84	<0.001
MW15	37.17	NA	ND	18.16	28.42	ND	NA	19.01	NA
MW19	14.45	NA	ND	8.64	34.32	ND	NA	5.81	<0.001
MW20	12.50	NA	ND	6.28	34.00	ND	NA	6.22	<0.001
MW21	30.36	NA	ND	23.98	30.90	ND	NA	6.38	<0.001
MW24	46.11	NA	ND	31.31	37.46	ND	NA	14.80	0.00215
RW01	30.63	0.7998	24.10	27.21	44.68	3.11	24.72	5.91	NA
RW04	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW06	27.07	NA	ND	21.07	40.76	ND	NA	6.00	NA

Table 2
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April 2010

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RW07	24.30	0.8538	16.60	19.96	37.80	3.36	17.09	7.21	NA
RW27	41.24	0.8247	26.15	27.14	30.17	0.99	26.32	14.92	NA
RW29	17.18	0.7739	11.22	11.27	23.48	0.05	11.23	5.95	NA
Valero West Plant (Complex 7) - Recovery Wells									
RW01A	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW02	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW03	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW08	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW25	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW28	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW30	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW31	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW37	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW68	NM	ND	NM	NM	NM	NA	NA	NA	NA
RW69	28.49	NA	ND	21.35	54.43	ND	NA	7.14	NA
RW70	29.19	NA	ND	21.88	33.77	ND	NA	7.31	NA
RW71	31.64	NA	ND	20.99	48.50	ND	NA	10.65	NA
Valero Quintana (Complex 6) - Observation and Monitor Wells									
DMWQ01	11.12	NA	ND	5.95	67.12	ND	NA	5.17	<0.001
MWQ01	9.71	0.7800	3.89	3.90	10.71	0.01	3.89	5.82	NA
MWQ02R	9.79	0.7800	3.89	4.46	18.20	0.57	4.02	5.77	NA
MWQ03	7.77	NA	ND	1.93	18.63	ND	NA	5.84	<0.001
MWQ04	7.61	NA	ND	1.88	14.81	ND	NA	5.73	<0.001
MWQ06	11.65	NA	ND	6.35	16.91	ND	NA	5.30	<0.001
MWQ07	16.29	NA	ND	10.83	21.60	ND	NA	5.46	<0.001
MWQ08	25.80	NA	ND	18.17	27.02	ND	NA	7.63	<0.001
MWQ09	17.22	NA	ND	10.35	28.18	ND	NA	6.87	<0.001
MWQ10	15.67	NA	ND	8.90	26.98	ND	NA	6.77	<0.001
MWQ11	22.17	NA	ND	14.53	28.31	ND	NA	7.64	NA
MWQ12	20.43	NA	ND	12.58	28.09	ND	NA	7.85	NA
MWQ13	19.31	NA	ND	11.71	23.84	ND	NA	7.60	<0.001
RWQ01P01	9.93	0.8235	4.04	4.61	13.68	0.57	4.14	5.79	NA
Valero Quintana (Complex 6) - Recovery Wells									
RWQ01	NM	ND	NM	NM	NM	NA	NA	NA	NA
RWQ02	NM	ND	NM	NM	NM	NA	NA	NA	NA
RWQ03	NM	ND	NM	NM	NM	NA	NA	NA	NA
RWQ04	NM	ND	NM	NM	NM	NA	NA	NA	NA
RWQ05	NM	ND	NM	NM	NM	NA	NA	NA	NA

Table 2
October 2009 Well Gauging and Analytical Results
Corpus Christi Inner Harbor Joint Semiannual Hydrocarbon Plume Status Report
April 2010

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Elementis Chromium/Valero Offsite Pipeline Gallery Area Observation Wells									
RRP02	15.55	NA	ND	9.14	22.92	ND	NA	6.41	NA
RRP05	13.25	NA	ND	7.40	20.35	ND	NA	5.85	NA
RRP06	12.48	NA	ND	6.65	14.99	ND	NA	5.83	NA
RRP07	16.09	NA	ND	10.16	21.47	ND	NA	5.93	NA
RRP08	16.26	NA	ND	10.35	21.22	ND	NA	5.91	NA
RRP09	13.87	NA	ND	3.61	21.31	ND	NA	10.26	NA
RRP10	13.03	NA	ND	6.94	23.96	ND	NA	6.09	NA
RWPG01	15.83	NA	ND	9.75	22.48	ND	NA	6.08	NA
RWPG08	12.25	NA	ND	2.94	21.40	ND	NA	9.31	NA
RWPG09	11.40	NA	ND	2.89	21.70	ND	NA	8.51	NA
Elementis Chromium/Valero Offsite Pipeline Gallery Area Recovery Wells									
RRP03	NM	ND	NM	NM	NM	NA	NA	NA	NA
RRP04	NM	ND	NM	NM	NM	NA	NA	NA	NA
RWPG02	NM	ND	NM	NM	NM	NA	NA	NA	NA
RWPG03	NM	ND	NM	NM	NM	NA	NA	NA	NA
RWPG04	NM	ND	NM	NM	NM	NA	NA	NA	NA
RWPG05	NM	ND	NM	NM	NM	NA	NA	NA	NA
RWPG06	NM	ND	NM	NM	NM	NA	NA	NA	NA
RWPG07	NM	ND	NM	NM	NM	NA	NA	NA	NA

BTOC - Below top of casing
TOC - Top of casing
MSL - Above mean sea level
NA - Not applicable or not analyzed
ND - Not detected
NM - Not measured
GW - Groundwater
LNAPL - Light non-aqueous phase liquid

Notes

(1) Survey Data and Specific Gravity values obtained from Groundwater Monitoring Program Semiannual Report, dated September 15, 2006.

Bold Numbers - Benzene concentration that exceeds the Environmental Protection Agency's (EPA) Maximum Contaminant Level (MCL) - 0.005 mg/l

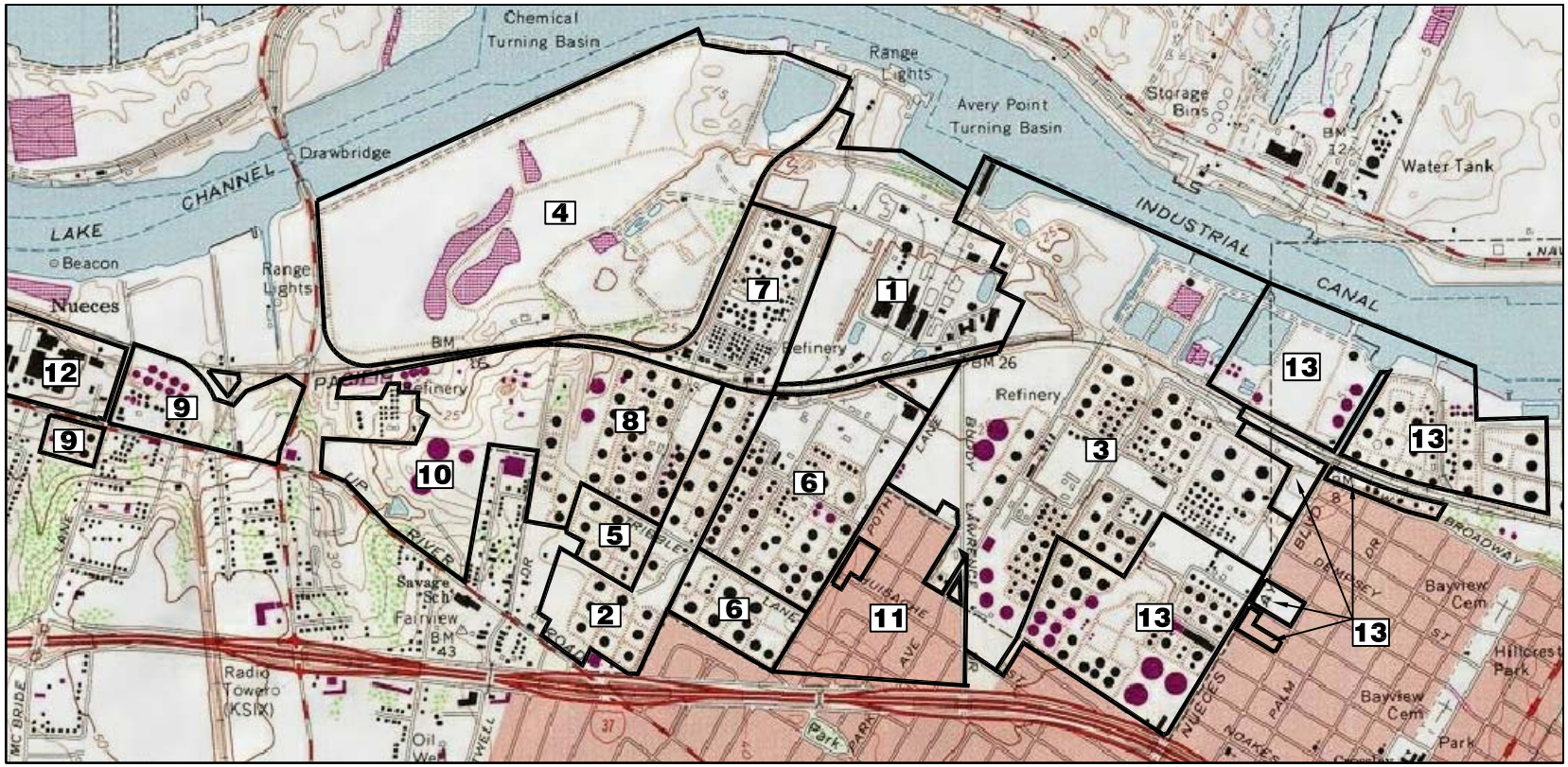
Table 3
Second Half 2009 (July to December)
Fluid Recovery Volumes
Corpus Christi Inner Harbor Joint Semiannual Hydrocarbon Plume Status Report
April 2010

Operator	LNAPL Volume (gallons)	Water Recovered (gallons)	Total Fluid Recovered (gallons)	Remediation System Startup Date	Total LNAPL Recovered Since Startup (gallons)
Citgo East Plant	37,711	1,923,146	1,960,857	2002	1,548,254
Citgo Deep Sea Terminal	11,191	464,105	475,296	2002	527,862
Valero - Bill Greehey East Plant	197,232	6,963,558	7,160,790	April 1998	11,124,330
El Paso / Elementis Chromium Plant	27,804	4,015,410	4,043,214	April 1999	Included in Valero Total
Flint Hills Resources - LP Mid Terminal	11,520	0	11,520	August 1996	5,678,574
Flint Hills Resources - LP East Refinery	15,463	3,057,269	3,072,732	February 1997	2,947,165
Hess Terminal and Oak Park Triangle	56,868	311,178	368,046	December 1993	7,343,154
Total Fluid Recovered	357,789	16,734,666	17,092,455		29,169,339

Operating Efficiency (LNAPL/Total Fluids) July to December 2009
2.09%

LNAPL - Light Non-Aqueous Phase Liquid

FIGURES



LEGEND

1 - AMERICAN CHROME & CHEMICALS L.P. (EPMEPC)
2 - CITGO DEEP SEA TERMINAL
3 - CITGO EAST PLANT
4 - ELEMENTIS CHROMIUM, L.P.
5 - FLINT HILLS RESOURCES, L.P. MID TERMINAL
6 - MAGELLAN TERMINAL (FORMERLY HESS TERMINAL)
7 - VALERO EAST PLANT (COMPLEX 8 NORTH)
8 - VALERO EAST PLANT SOUTH (COMPLEX 8 SOUTH)
9 - VALERO QUINTANA (COMPLEX 6)
10 - VALERO EAST PLANT (COMPLEX 7)
11 - OAK PARK TRIANGLE (HESS)
12 - ENCYCLE PROPERTY (EPMEPC)
13 - FHR EAST REFINERY

0 1000 2000
SCALE IN FEET

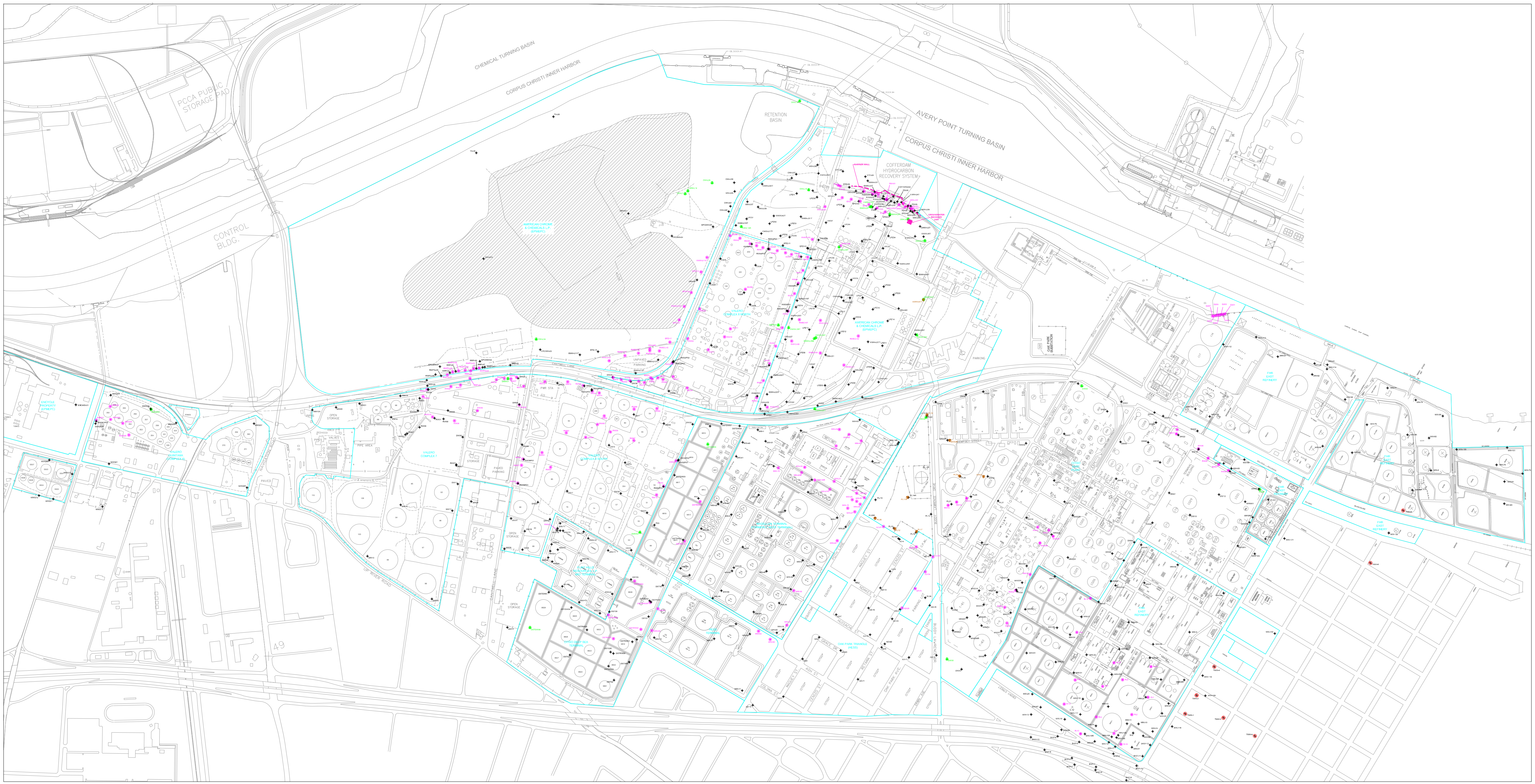
N

BASEMAP SOURCE:
USGS QUADRANGLE CORPUS CHRISTI, TEXAS 1975

RSA Rosengarten, Smith & Associates, Inc.

FIGURE 1
SECOND HALF 2009
JOINT HYDROCARBON PLUME STATUS REPORT
CORPUS CHRISTI SHIP CHANNEL
INNER HARBOR AREA
SITE LOCATION MAP
CORPUS CHRISTI, NUECES COUNTY, TEXAS

DRAWN BY:	TTO	PROJECT NO.	2596
CHECKED BY:	AGH	DATE:	05/14/10



DRAWN BY:	TTO	C:/DWG/CCIH/2596/07/02/CCIH-WELL-LOC-MAP	QA/QC		
DESIGNED BY:	IHM	DATE: 03/23/10	NO.	DATE	SIGNATURE
NO.	DATE	REVISIONS	1	03/24/10	IHM
1	04/05/10	CORRECTED WELL SYMBOLS	2	04/06/10	IHM
2	05/10/10	ADDED PLUGGED AND ABANDONED WELL SYMBOLS TO FHR TEMPORARY WELL LOCATIONS.	3	05/10/10	IHM
3	05/10/10	ADDED FHR BUFFER ZONE WELL LOCATIONS. WELLS INSTALLED BETWEEN 4/5/10 AND 4/7/10.	4	05/10/10	AGH
4			5		
5			7		
6			8		
7			FINAL QA/QC		
8			05/14/10	AGH	

LEGEND

- MONITOR WELL
- RECOVERY WELL
- SHALLOW UNIT WELL
- DEEP UNIT WELL
- PLUGGED AND ABANDONED WELL
- PROPERTY BOUNDARY
- FENCE
- RAILROAD TRACKS
- BARRIER WALL (COMPLETED IN JANUARY 2010)

0 300 900
SCALE IN FEET
N

NOTES	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

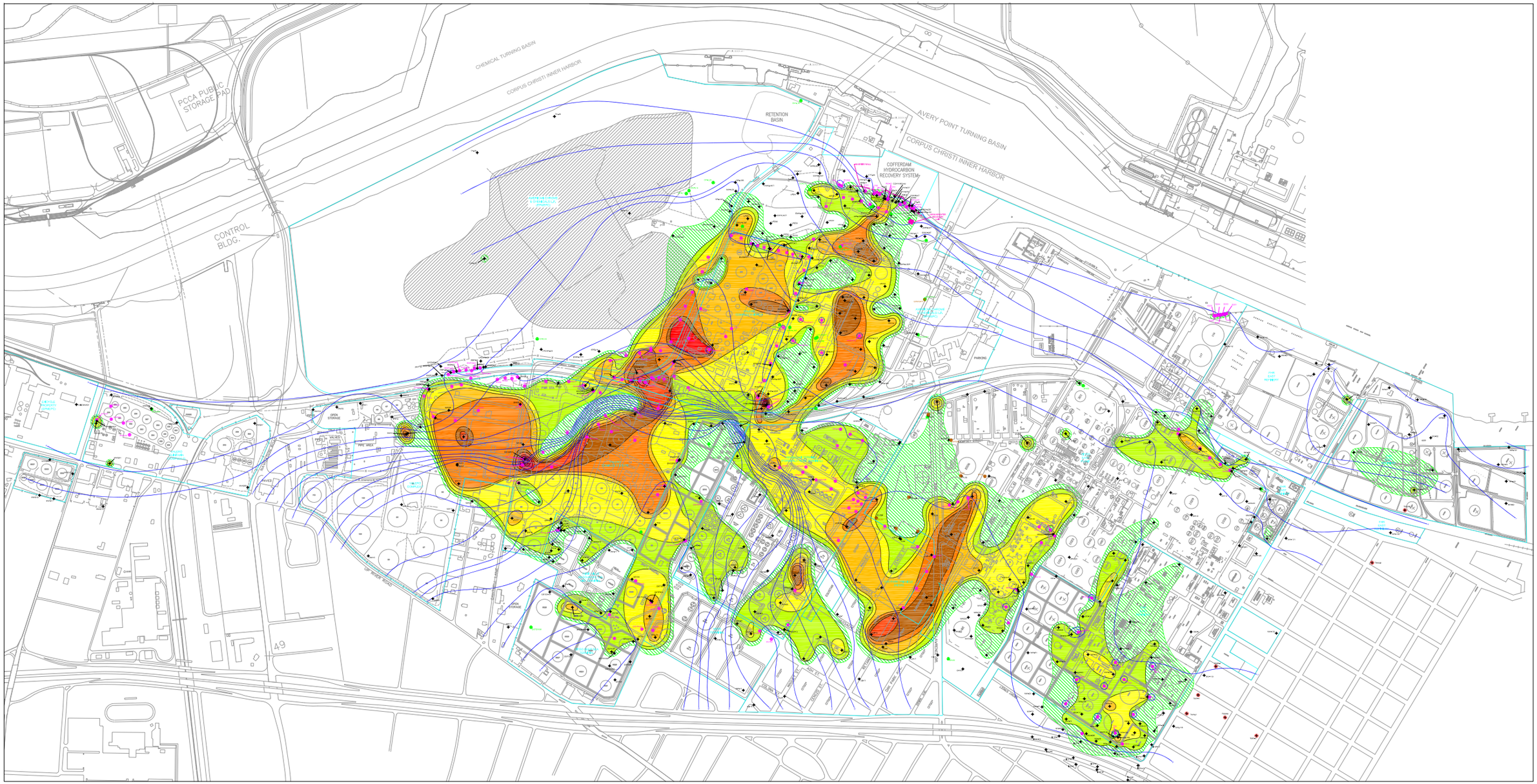
RSA Rosengarten, Smith & Associates, Inc.

FIGURE 2

SECOND HALF 2009
JOINT HYDROCARBON PLUME STATUS REPORT
CORPUS CHRISTI SHIP CHANNEL
INNER HARBOR AREA

WELL LOCATION MAP

CORPUS CHRISTI, NUECES COUNTY, TEXAS



DRAWN BY:	TCQ	CLDIVIJGCSHDS5607D2CB\+WELLJLOGMAP			
DESIGNED BY:	MM	DATE: 03/23/10			
NO.	DATE	REVISIONS			
1	05/10/10	ADDED PLUGGED AND ABANDONED WELL SYMBOLS TO PHR TEMPORARY WELL LOCATIONS.			
2	05/10/10	ADDED PHR BUFFER ZONE WELL LOCATIONS, WELLS INSTALLED BETWEEN 4/5/10 AND 4/7/10.			
3					
4					
5					
6					
7					
8					

GAGE		
NO.	DATE	SIGNATURE
1	03/24/10	BRB
2	04/06/10	BMA
3	05/10/10	BMA
4	05/10/10	ASH
5		
6		
7		
8		
FINAL GAGE		
	05/14/10	ASH

STATE OF TEXAS
ANTHONY E. HORTON
GEOLOGY
No. 3373
5/14/10

LEGEND

- MONITOR WELL
- RECOVERY WELL
- SHALLOW UNIT WELL
- DEEP UNIT WELL
- PLUGGED AND ABANDONED WELL
- PROPERTY BOUNDARY
- FENCE
- RAILROAD TRACKS
- BARRIER WALL (COMPLETED IN JANUARY 2010)
- LNAPL BOPLUTE (ft)
- BENZENE (BOPLUTE) (>5,000 MGL)
- DISSOLVED PHASE BENZENE
- GROUNDWATER ELEVATION CONTOUR (Dashed where inferred)
- LNAPL THICKNESS 0 TO 1 FEET
- LNAPL THICKNESS 1 TO 2 FEET
- LNAPL THICKNESS 2 TO 3 FEET
- LNAPL THICKNESS 3 TO 4 FEET
- LNAPL THICKNESS 4 TO 5 FEET
- LNAPL THICKNESS 5 TO 6 FEET
- LNAPL THICKNESS 6 TO 7 FEET
- LNAPL THICKNESS 7 TO 8 FEET
- LNAPL THICKNESS 8 TO 9 FEET
- LNAPL THICKNESS 9 TO 10 FEET

0 300 900
SCALE IN FEET
N

NOTES
1
2
3
4
5
6
7
8
9
10

OPERATOR/AREA	GAUGING START DATE	GAUGING END DATE	ANALYTICAL START DATE	ANALYTICAL END DATE
CITGO DEEP SEA TERMINAL	10/07/09	10/07/09	10/08/09	10/08/09
CITGO EAST PLANT	10/01/09	10/01/09	10/20/09	10/28/09
EL PASO/ELEMENTIS	10/13/09	10/13/09	10/14/09	10/18/09
FLINT HILLS RESOURCES M/D TERMINAL	10/01/09	10/01/09	10/01/09	10/05/09
FLINT HILLS RESOURCES EAST REFINERY	09/01/09	09/01/09	08/02/09	08/02/09
HESS	10/20/09	10/20/09	10/27/09	10/27/09
HILLCREST TEMPORARY WELLS	09/28/09	09/29/09	09/29/09	09/29/09
VALERO	10/13/09	10/13/09	10/23/09	10/28/09
PHR BUFFER ZONE WELLS	04/09/10	04/09/10	04/09/10	04/09/10

RSA Rosengarten, Smith & Associates, Inc.

FIGURE 3
SECOND HALF 2009
JOINT HYDROCARBON PLUME STATUS REPORT
CORPUS CHRISTI SHIP CHANNEL
INNER HARBOR AREA
COMBINED GROUNDWATER SURFACE CONTOUR, LNAPL THICKNESS AND DISSOLVED-PHASE BENZENE MAP
FIRST WATER-BEARING ZONE
OCTOBER 2009
CORPUS CHRISTI, NUECES COUNTY, TEXAS