Mr. Paresh Khatri
Alameda County Environmental Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: 6310 Houston Place, Dublin, California 94568
ACEHS Case No. RO0002862, GeoTracker ID T0600113164

Dear Mr. Khatri:

I declare, under penalty of perjury, that the information and or recommendations contained in the attached document are true and correct to the best of my knowledge.

Sincerely,

Mr. Cary Grayson

STRATUS
ENVIRONMENTAL, INC.

3330 Cameron Park Drive, Ste 550
Cameron Park, California 95682
(530) 676-6004 ~ Fax: (530) 676-6005

August 6, 2012
Project No. 2094-6310-01

Ms. Dilan Roe
Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: **Quarterly Monitoring and Sampling Report – Second Quarter 2012**
6310 Houston Place, Dublin, California 94568
ACEHD Case No. RO0002862, GeoTracker ID T0600113164

Dear Ms. Roe:

Stratus Environmental, Inc. (Stratus) is submitting the attached report, which presents an update of work performed during the second quarter 2012 on behalf of Mr. Cary Grayson for the facility located at 6310 Houston Place, Dublin, California. Stratus representatives, whose signatures appear below, declare under penalty of perjury, that the information contained in the attached report are true and correct to the best of our knowledge.

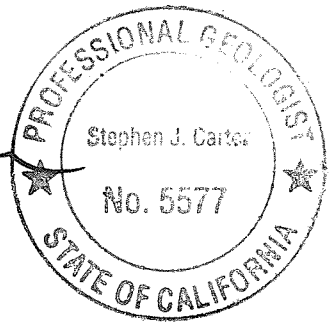
If you have any questions regarding this project, please contact Mr. Kasey Jones at (415) 576-0373.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Kasey L. Jones
Project Manager

Stephen J. Carter, P.G.
Senior Geologist



Attachment: Quarterly Monitoring and Sampling Report, Second Quarter 2012

cc: Mr. Cary Grayson *(via email carybgrayson@gmail.com)*

August 6, 2012

6310 HOUSTON PLACE
QUARTERLY MONITORING AND SAMPLING REPORT

Facility Address:	6310 Houston Place, Dublin, California 94568
Consulting Co. / Contact Person:	Stratus Environmental, Inc. / Kasey Jones
Consultant Project No:	2094-6310-01
Primary Agency/Regulatory ID No:	Dilan Roe, Alameda County Environmental Health Department (ACEHD) Case No. RO0002862

WORK PERFORMED THIS QUARTER (Second Quarter 2012):

1. On May 2, 2012, Stratus conducted the second quarter 2012 semi-annual groundwater monitoring and sampling event. Prior to sampling, all wells were gauged for depth to water, temperature, pH, conductivity, dissolved oxygen (DO) and oxygen-reduction potential (ORP). Groundwater samples were collected and forwarded to Alpha Analytical, Inc. (Alpha), a state-certified analytical laboratory, for analysis. Field data sheets, sampling procedures and laboratory analytical reports are included as Appendices A, B, and C, respectively. Analytical results of sampled wells and depth to groundwater measurements have been uploaded to the State of California's GeoTracker database. Documentation of these data uploads is attached in Appendix D.

2. At the request of ACEHD (email correspondence dated May 4, 2012), Stratus returned to the site on May 9, 2012 to collect additional samples for the analysis of dissolved metals. Monitoring wells DW-1, DW-3, DW-5 and DW-7 were sampled and analyzed for dissolved metals by EPA Method 200.8 by a state-certified analytical laboratory.

3. Upon review of the laboratory data, Stratus noted that the analytical results for the samples collected from wells DW-1 through DW-5 indicated DRO concentrations that were uncharacteristically elevated (in some cases by two orders of magnitude) compared to the first quarter 2012 results, and that the laboratory noted increased reporting limits for the other analytes due to sample foaming. To evaluate the consistency of the analytical data, and to understand if a laboratory error was occurring, on May 14, 2012, Stratus collected split samples (two samples from each well) from wells DW-1 through DW-5, and duplicate samples from well DW-4, and sent the samples to Alpha and Kiff Analytical, LLC (Kiff) for analysis of petroleum hydrocarbons. All analytical data collected during the second quarter 2012 has been uploaded to the GeoTracker database (see Appendix D).

4. On June 20, 2012, Stratus submitted *Groundwater Sampling and Laboratory Methodology/Analytical Results Summary*, summarizing groundwater sampling activities, laboratory methodology, and analytical results for samples collected during the second quarter 2012 at the subject site. The letter was meant to be a basis for discussion during the planned near-future meeting with ACEHD.

WORK PROPOSED FOR NEXT QUARTER (Third Quarter 2012):

1. A meeting was conducted at ACEHD offices on July 31, 2012 to discuss the status of the ongoing environmental investigation and to determine the next steps toward site closure.

Current Phase of Project:	Soil and Groundwater Investigation (SWI)
Frequency of Groundwater Monitoring and Sampling:	Wells DW-1 through DW-7 = 1st and 3rd
Groundwater Sampling Date:	May 2, 9, and 14, 2012
Is Free Product (FP) Present on Site:	No
Approximate Depth to Groundwater:	6.36 to 7.20 feet below top of well casing (5/14/12)
Groundwater Flow Direction / Gradient:	Southwest / 0.004 ft/ft (5/14/12)

DISCUSSION:

During the second quarter 2012, Stratus conducted three separate monitoring/sampling events. Routine second quarter 2012 monitoring/sampling was conducted on May 2, 2012. During this event, wells DW-1 through DW-7 were gauged for depth to water, evaluated for the presence of free product, purged and sampled. During the site visit, the field technician noted bubbles in the purge water from wells DW-1 through DW-5. At the direction of the project manager, an extra 3 volumes of water was purged from well DW-4 prior to sample collection. Groundwater samples were collected, forwarded to a state-certified analytical laboratory, and analyzed for diesel range organics (DRO), with silica gel cleanup, by EPA Method SW8015B/DHS LUFT Manual, and for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tert-butyl ether (MTBE), and naphthalene by EPA Method SW8260B.

At the direction of ACEHD, on May 9, 2012 Stratus returned to the site to collect samples for analysis of dissolved metals. During this visit, wells DW-1, DW-3, DW-5 and DW-7 were gauged, purged and sampled. Groundwater samples were forwarded to the laboratory for metals analysis of chromium (Cr), Iron (Fe), copper (Cu), arsenic (As), selenium (Se), cadmium (Cd), barium (Ba), and lead (Pb) all by EPA Method 200.8. During this visit, bubbles in the purge water and a soapy odor were observed. Dissolved metal concentrations (including historical data) are included in Table 2.

Stratus received the analytical report from the May 2, 2012 sampling event on May 10, 2012. Elevated concentrations of DRO (ranging between 23,000 micrograms per liter [µg/L] and 89,000 µg/L) were reported in wells DW-1 through DW-5. These concentrations were between one and three orders of magnitude higher than previous concentrations and were at or near historic highs. No other analytes were reported in the May 2, 2012 samples; however, the laboratory noted that the reporting limits for BTEX, MTBE, and naphthalene were increased due to sample foaming (see Appendix C). Tabulated groundwater analytical data are summarized in Tables 1 and 2. Copies of the laboratory reports are presented in Appendix C.

Following review of the May 2nd sample results, Stratus returned to the site on May 14, 2012 to conduct verification sampling. Depth to water was measured and two (split) sets of samples were collected from wells DW-1 through DW-5. The field technician noted foam and bubbles in the bailer and a soapy odor emanating from the well heads. In an attempt to prevent bias, Stratus labeled the samples collected from well DW-1 as DW-1A; the samples collected from well DW-5 were labeled DW-1B, and the duplicate samples collected from well DW-4 were labeled DW 1C. One set of samples were forwarded to Kiff and one set was forwarded to Alpha. The DRO concentrations reported by the two analytical laboratories varied greatly. Through discussions with both labs, Stratus determined that the methodologies utilized by the laboratories were causing the discrepancy; while Alpha incorporated a "shake-out silica gel method", Kiff used a "column silica gel cleanup method". Stratus requested that Alpha rerun the samples using the column method. Alpha reported that the samples run by the column method contained DRO concentrations similar to the results reported by Kiff. As part of the case narrative, Alpha noted that the May 14, 2012 samples contained a soap-like material that elutes in the range of diesel and oil.

The duplicate sample for well DW-4 (sample DW-1C) that was analyzed by Kiff was noted to contain hydrocarbons with a higher-boiling point than typical diesel fuel. In an e-mail to Stratus from Kiff, dated June 13, 2012, the laboratory explained that, "the presence of the surfactant may have affected the relative quantities of hydrocarbons" in sample DW-1C indicating that the silica gel cleanup may not have

been complete.

During the May 14, 2012 sampling event, depth to groundwater was measured between 6.36 and 7.20 feet below ground surface (bgs) in monitoring wells DW-1 through DW-5. Groundwater elevations increased between 1.18 and 1.38 feet in all wells since the last monitoring event (January 4, 2012). Groundwater monitoring data were converted to feet above mean sea level (MSL) and used to prepare a groundwater elevation contour map (Figure 2). Groundwater flow direction at the site was to the southwest with a calculated gradient of 0.004 ft/ft. Groundwater flow direction during the second quarter 2012 was consistent with historical flow patterns. Analysis of samples collected on May 14, 2012 reported DRO concentrations of 71 µg/L (DW-1), 450 µg/L (DW-2), 1,300 µg/L (DW-3), 140 µg/L DW-4), and 190 µg/L (DW-5). No other hydrocarbon analytes were reported during the second quarter 2012 sampling event. DRO, benzene, and MTBE concentrations for groundwater samples collected on May 14, 2012 are presented in Figure 3.

RECOMMENDATIONS:

Stratus attended a meeting with ACEHD on July 31, 2012 to discuss the anomalies which occurred during the second quarter 2012 groundwater sampling event, the site status, and steps moving forward.

ATTACHMENTS:

- Table 1 Groundwater Elevation and Analytical Summary
- Table 2 Groundwater Analytical – Dissolved Metals Summary
- Figure 1 Site Location Map
- Figure 2 Groundwater Elevation Contour Map, Second Quarter 2012
- Figure 3 Groundwater Analytical Summary, Second Quarter 2012
- Appendix A Field Data Sheets
- Appendix B Sampling and Analyses Procedures
- Appendix C Laboratory Analytical Reports and Chain-of-Custody Documentation
- Appendix D GeoTracker Electronic Submittal Confirmations

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
6310 Houston Place, Dublin, CA

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	**DRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)
DW-1	04/10/07	7.44	334.23	326.79	8,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/12/07	7.72	334.23	326.51	30,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/11/07	7.88	334.23	326.35	18,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/25/08	6.16	334.23	328.07	13,000	<0.5	<0.5	<0.5	<0.5	--	--
	04/23/08	6.96	334.23	327.27	15,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/23/08	7.55	334.23	326.68	5,200	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/30/08	8.02	334.23	326.21	11,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/11/10	7.58	334.23	326.65	5,600	<0.5	<0.5	<0.5	<0.5	<5.0	--
	08/03/10	7.43	334.23	326.80	540	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/13/11	6.81	334.23	327.42	1,700	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	07/05/11	6.47	334.23	327.76	380	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/04/12	8.05	334.23	326.18	390	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	05/02/12	6.40	334.23	327.83	89,000	<500[3]	<500[3]	<500[3]	<500[3]	<500[3]	<4,000[3]
	05/14/12*	6.69	334.23	327.54	71	<25[3]	<25[3]	<25[3]	<25[3]	<25[3]	<200[3]
	05/14/12**	6.69	334.23	327.54	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
DW-2	04/10/07	7.09	334.00	326.91	8,200	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/12/07	7.40	334.00	326.60	34,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/11/07	7.55	334.00	326.45	14,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/25/08	5.89	334.00	328.11	17,000	<0.5	<0.5	<0.5	<0.5	--	--
	04/23/08	6.63	334.00	327.37	27,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/23/08	7.25	334.00	326.75	16,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/30/08	7.74	334.00	326.26	11,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/11/10	7.23	334.00	326.77	6,900	<0.5	<0.5	<0.5	<0.5	<5.0	--
	08/03/10	7.40	334.00	326.60	550	<0.50	<0.50	<0.50	<0.50	<0.50	--
	01/13/11	6.27	334.00	327.73	7,500	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	07/05/11	6.12	334.00	327.88	210	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/04/12	7.77	334.00	326.23	1,600	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	05/02/12	6.06	334.00	327.94	23,000	<250[3]	<250[3]	<250[3]	<250[3]	<250[3]	<2,000[3]
	05/14/12*	6.39	334.00	327.61	450	<10[3]	<10[3]	<10[3]	<10[3]	<10[3]	<80[3]
	05/14/12**	6.39	334.00	327.61	260	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 1
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6310 Houston Place, Dublin, CA

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	**DRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)
DW-3	04/10/07	7.90	334.56	326.66	27,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/12/07	8.19	334.56	326.37	210,000	<0.5	<1.7	<1.7	<1.7	<1.7	--
	10/11/07	8.29	334.56	326.27	71,000	<25	<25	<25	<25	<0.5	--
	01/25/08	6.63	334.56	327.93	66,000	<0.5	<0.5	<0.5	<0.5	--	--
	04/23/08	7.38	334.56	327.18	58,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/23/08	7.94	334.56	326.62	38,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/30/08	8.41	334.56	326.15	29,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/11/10	8.12	334.56	326.44	29,000	<0.5	<0.5	<0.5	<0.5	<5.0	--
	08/03/10	8.02	334.56	326.54	6,300	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/13/11	7.06	334.56	327.50	1,800	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	07/05/11	6.88	334.56	327.68	780	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/04/12	8.43	334.56	326.13	9,000	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	05/02/12	6.92	334.56	327.64	53,000	<250[3]	<250[3]	<250[3]	<250[3]	<250[3]	<2,000[3]
	05/14/12*	7.13	334.56	327.43	1,300	<25[3]	<25[3]	<25[3]	<25[3]	<25[3]	<200[3]
	05/14/12**	7.13	334.56	327.43	740	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
DW-4	04/10/07	7.99	334.49	326.50	65	<0.5	<0.5	<0.5	<0.5	0.67	--
	07/12/07	8.22	334.49	326.27	300	<0.5	<0.5	<0.5	<0.5	0.87	--
	10/11/07	8.33	334.49	326.16	640	<0.5	<0.5	<0.5	<0.5	0.80	--
	01/25/08	6.62	334.49	327.87	240	<0.5	<0.5	<0.5	<0.5	--	--
	04/23/08	7.39	334.49	327.10	340	<0.5	<0.5	<0.5	<0.5	0.94	--
	07/23/08	7.94	334.49	326.55	<50	<0.5	<0.5	<0.5	<0.5	0.94	--
	10/30/08	8.39	334.49	326.10	<50	<0.5	<0.5	<0.5	<0.5	0.92	--
	01/11/10	8.13	334.49	326.36	65	<1.0	<1.0	<1.0	<1.0	<5.0	--
	08/03/10	8.00	334.49	326.49	370	<0.50	<0.50	<0.50	<0.50	0.76	--
	01/13/11	7.08	334.49	327.41	370	<0.50	<0.50	<0.50	<0.50	0.74	<4.0[3]
	07/05/11	6.91	334.49	327.58	300	<0.50	<0.50	<0.50	<0.50	0.96	<2.0
	01/04/12	8.38	334.49	326.11	88	<0.50	<0.50	<0.50	<0.50	0.80	<2.0
	05/02/12	6.85	334.49	327.64	33,000	<100[3]	<100[3]	<100[3]	<100[3]	<100[3]	<800[3]
	05/14/12*	7.20	334.49	327.29	140	<10[3]	<10[3]	<10[3]	<10[3]	<10[3]	<80[3]
Duplicate	05/14/12*	7.20	334.49	327.29	<50	<25[3]	<25[3]	<25[3]	<25[3]	<25[3]	<200[3]
	05/14/12**	7.20	334.49	327.29	110[4]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	05/14/12**	7.20	334.49	327.29	4,000[5]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
6310 Houston Place, Dublin, CA

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	**DRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)
DW-5	04/10/07	7.00	333.91	326.91	800	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/12/07	7.36	333.91	326.55	990	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/11/07	7.52	333.91	326.39	880	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/25/08	5.93	333.91	327.98	730	<0.5	<0.5	<0.5	<0.5	--	--
	04/23/08	6.52	333.91	327.39	780	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/23/08	7.24	333.91	326.67	340	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/30/08	7.68	333.91	326.23	1,200	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/11/10	7.47	333.91	326.44	130	<0.5	<0.5	<0.5	<0.5	<5.0	--
	08/03/10	7.32	333.91	326.59	490[1,2]	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/13/11	6.23	333.91	327.68	470	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	07/05/11	6.12	333.91	327.79	220	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/04/12	7.72	333.91	326.19	380	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0[3]
	05/02/12	6.04	333.91	327.87	38,000	<250[3]	<250[3]	<250[3]	<250[3]	<250[3]	<2,000[3]
	05/14/12*	6.36	333.91	327.55	190	<50[3]	<50[3]	<50[3]	<50[3]	<50[3]	<400[3]
	05/14/12**	6.36	333.91	327.55	250[6]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
DW-6	04/10/07	8.62	334.99	326.37	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/12/07	8.81	334.99	326.18	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/11/07	8.53	334.99	326.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/25/08	7.16	334.99	327.83	<50	<0.5	<0.5	<0.5	<0.5	--	--
	04/23/08	7.53	334.99	327.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/23/08	8.24	334.99	326.75	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/30/08	8.62	334.99	326.37	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/11/10	8.18	334.99	326.81	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	08/03/10	8.25	334.99	326.74	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	01/13/11	7.69	334.99	327.30	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	07/05/11	7.06	334.99	327.93	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/04/12	8.52	334.99	326.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	05/02/12	7.65	334.99	327.34	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	05/14/12	NM	334.99	NM	Not scheduled for sampling						

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
6310 Houston Place, Dublin, CA

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	**DRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)
DW-7	04/10/07	8.11	335.18	327.07	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/12/07	8.34	335.18	326.84	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/11/07	8.96	335.18	326.22	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/25/08	6.75	335.18	328.43	<50	<0.5	<0.5	<0.5	<0.5	--	--
	04/23/08	7.95	335.18	327.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/23/08	8.55	335.18	326.63	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/30/08	8.96	335.18	326.22	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/11/10	8.62	335.18	326.56	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	08/03/10	8.58	335.18	326.60	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/13/11	7.85	335.18	327.33	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	07/05/11	7.49	335.18	327.69	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/04/12	9.17	335.18	326.01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0[3]
	05/02/12	7.46	335.18	327.72	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	05/14/12	NM	335.18	NM	Not scheduled for sampling						

Notes:

Data through January 11, 2010, reported by AEI Contultants.

Prior to 8/3/10, reported as TPH-D

* = Sample was collected as a split grab sample. Sample was forwarded to Alpha Analytical.

** = Sample was collected as a split grab sample. Sample was forwarded to Kiff Analytical.

-- = Not analyzed

NM = Not measured

DRO = total petroleum hydrocarbons as diesel (C13-C-22)

MTBE = methyl-tertiary butyl ether

µg/L = micrograms per liter

[1] = reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

[2] = DRO concentration may include contributions from heavier-end hydrocarbons that elute in the DRO range.

[3] = Reporting limits were increased due to sample foaming.

[4] = Discrete peaks in diesel range, atypical for diesel fuel.

[5] = Hydrocarbons are higher-boiling than typical diesel fuel.

[6] = Lower boiling hydrocarbons present, atypical for diesel fuel.

TABLE 2
GROUNDWATER ANALYTICAL - DISSOLVED METALS SUMMARY
6310 Houston Place, Dublin, California

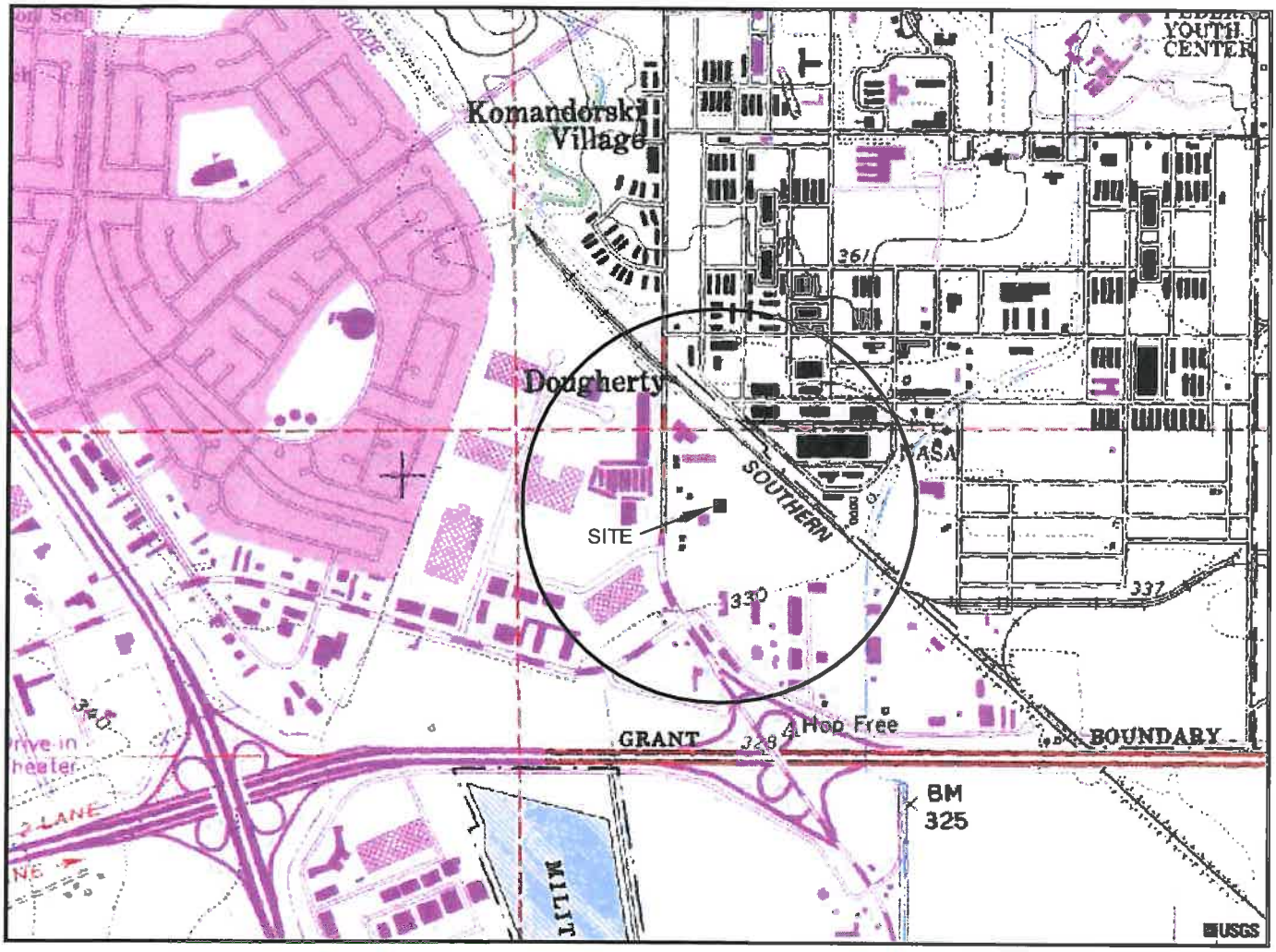
Well Number	Date Collected	Cu (µg/L)	As (µg/L)	Cd (µg/L)	Ba (µg/L)	Cr^{+6} (µg/L)	Cr (µg/L)	Fe (µg/L)	Se (µg/L)	Pb (µg/L)
DW-1	08/03/10	<10	9.4	<1.0	28	<1.0	6.8	7,300	<5.0	<5.0
	10/07/10	23	87	<1.0	21	1.6	17	5,200	<5.0	<5.0
	10/19/10	28	79	<1.0	20	<1.0	22	13,000	<5.0	6.3
	11/30/10	13	43.0	<1.0	32	<1.0	13	3,900	<5.0	<5.0
	01/13/11	49	41	<1.0	37	<1.0	72	35,000	<5.0	16
	05/09/12	<40	37	<4.0	<20	--	<20	1,200	<20	<20
DW-2	08/03/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/07/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/19/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/30/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/13/11	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/09/12	NS	NS	NS	NS	NS	NS	NS	NS	NS
DW-3	08/03/10	<10	<2.0	<1.0	58	<1.0	<5.0	2,300	<5.0	<5.0
	10/07/10	13	6.4	<1.0	87	<1.0	6.3	2,600	<5.0	<5.0
	10/19/10	14	6.7	<1.0	96	<1.0	16	12,000	<5.0	<5.0
	11/30/10	<10	6.7	<1.0	76	<1.0	9.4	3,000	<5.0	<5.0
	01/13/11	14	5.4	<1.0	69	<1.0	29	16,000	<5.0	7.4
	05/09/12	<40	26	<4.0	62	--	<20	1,800	<20	<20
DW-4	08/03/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/07/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/19/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/30/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/13/11	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/09/12	NS	NS	NS	NS	NS	NS	NS	NS	NS
DW-5	08/03/10	<10	5.8	<1.0	48	<1.0	<5.0	540	<5.0	<5.0
	10/07/10	11	5.1	<1.0	53	<1.0	<5.0	640	<5.0	<5.0
	10/19/10	69	5.1	<1.0	53	<1.0	<5.0	1,700	<5.0	<5.0
	11/30/10	<10	5.5	<1.0	55	<1.0	8.5	1,200	<5.0	<5.0
	01/13/11	11	4.9	<1.0	69	<1.0	19	8,800	<5.0	<5.0
	05/09/12	<40	17	<4.0	45	--	<20	3,600	<20	<20
DW-6	08/03/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/07/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/19/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/30/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/13/11	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/09/12	NS	NS	NS	NS	NS	NS	NS	NS	NS
DW-7	08/03/10	<10	5.6	<1.0	45	<1.0	45	29,000	5.7	15
	10/07/10	71	5.7	<1.0	51	<1.0	92	57,000	<5.0	<5.0
	10/19/10	69	4.2	<1.0	49	<1.0	110	69,000	<5.0	<5.0
	11/30/10	23	<2.0	<1.0	50	<1.0	42	21,000	<5.0	<5.0
	01/13/11	32	6.0	<1.0	48	<1.0	79	36,000	7.8	12
	05/09/12	<40	34	<4.0	71	--	30	3,400	<20	<20

TABLE 2
GROUNDWATER ANALYTICAL - DISSOLVED METALS SUMMARY
6310 Houston Place, Dublin, California

Well Number	Date Collected	Cu (µg/L)	As (µg/L)	Cd (µg/L)	Ba (µg/L)	Cr^{+6} (µg/L)	Cr (µg/L)	Fe (µg/L)	Se (µg/L)	Pb (µg/L)

Notes:

µg/L = micrograms per liter
Cu = Copper
As = Arsenic
Cd = Cadmium
Ba = Barium
Cr = Chromium
Cr^{+6} = Hexavalent Chromium
Fe = Iron
Se = Selenium
Pb = Lead
NS = Not Sampled
--- = Not Analyzed



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
DUBLIN, CA.
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1989

N

QUADRANGLE LOCATION

0 1800 FT

APPROXIMATE SCALE

STRATUS ENVIRONMENTAL, INC.

6310 HOUSTON PLACE
DUBLIN, CALIFORNIA

SITE LOCATION MAP

FIGURE
1

PROJECT NO.
2094-6310-01

N

HOUSTON PLACE

DRIVEWAY

SIDEWALK

DRIVEWAY

SIDEWALK

PROPERTY LINE

WALL

PLANTER

6310 HOUSTON PLACE

(327.55) DW-5

FORMER TANK HOLD

FORMER DIESEL UST

(327.61) DW-2

FORMER TANK HOLD

PROPERTY LINE

PARKING

6302 HOUSTON PLACE

327.60

327.45

327.40

0.004 ft/ft

327.55

FORMER DISPENSER ISLAND

327.35

327.30

(327.54) DW-1

DW-4 (327.29)

DW-3 (327.43)

FENCE

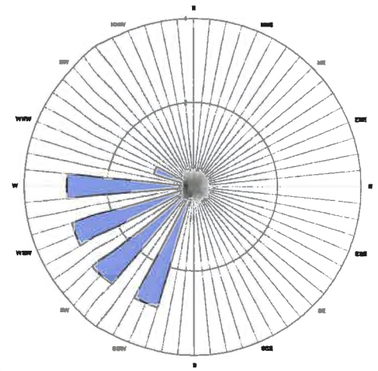
PROPERTY LINE

TRASH ENCLOSURE

TRASH ENCLOSURE

DW-7 (NM)

DW-6 (NM)



LEGEND

DW-1 MONITORING WELL LOCATION

(327.54) GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL

-327.40- WATER TABLE CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL

INFERRED DIRECTION OF GROUND WATER FLOW

WELLS MEASURED: 5/14/12

(NM) = NOT MEASURED

Bay Counties\Quarterly JMP REV August 2, 2012 Bay Co QF 11X17

STRATUS ENVIRONMENTAL, INC.

0 30 FT

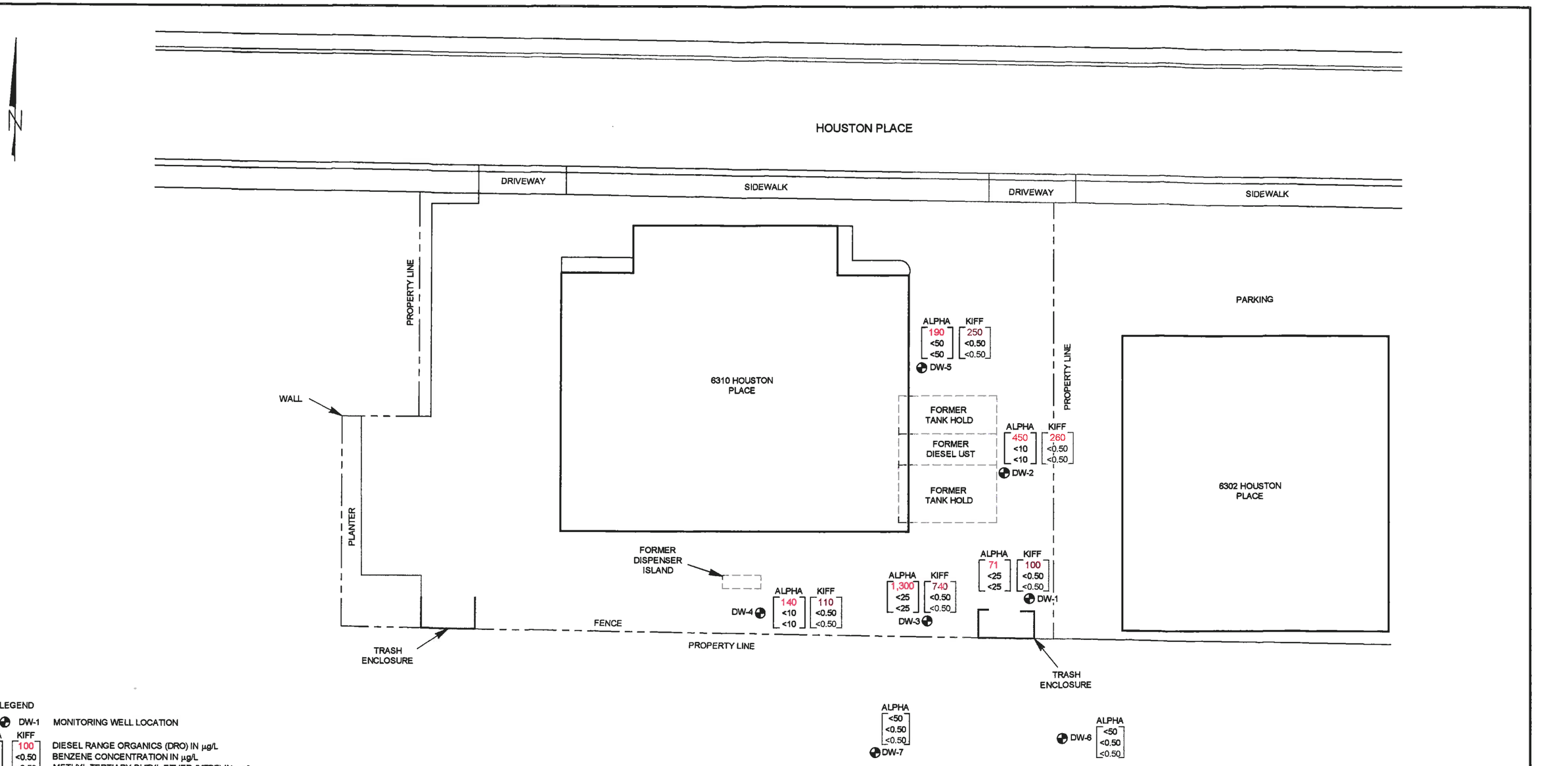
SCALE

6310 HOUSTON PLACE
DUBLIN, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
2nd QUARTER 2012

FIGURE
2

PROJECT NO.
2094-6310-01



LEGEND

DW-1 MONITORING WELL LOCATION

ALPHA	KIFF	
71	100	DIESEL RANGE ORGANICS (DRO) IN µg/L
<25	<0.50	BENZENE CONCENTRATION IN µg/L
<25	<0.50	METHYL TERTIARY BUTYL ETHER (MTBE) IN µg/L

DRO ANALYZED BY EPA METHOD 8015B
BENZENE & MTBE ANALYZED BY EPA METHOD 8260B

NOTES:
1. WELLS DW-6 & DW-7 SAMPLED ON 5/02/12
2. WELLS DW-1 THROUGH DW-5 ORIGINALLY SAMPLED ON 5/02/12. WELLS WERE RESAMPLED ON 5/14/12, AND SPLIT SAMPLES SENT TO ALPHA ANALYTICAL AND KIFF ANALYTICAL FOR ANALYSIS.
3. SAMPLES ANALYZED FOR DRO AFTER SILICA GEL COLUMN CLEANUP.
4. BENZENE AND MTBE RESULTS FROM 5/14/12 SAMPLES SENT TO ALPHA ANALYTICAL WERE ELEVATED DUE TO SAMPLE FOAMING.

Bay Co QF 11X17 August 2, 2012 REV JMP Bay Counties\Quarterly

STRATUS ENVIRONMENTAL, INC.

0 30 FT
SCALE

6310 HOUSTON PLACE
DUBLIN, CALIFORNIA

GROUNDWATER ANALYTICAL SUMMARY
2nd QUARTER 2012

FIGURE
3

PROJECT NO.
2094-6310-01

APPENDIX A

FIELD DATA SHEETS

STRATUS ENVIRONMENTAL, INC.

Site Address: 6310 Houston Place
City: Dublin, CA
Sampled by: Shane Edmunds
Signature: Shane Edmunds

Site Number: Bay Counties
Project Number: 2094-6310-01
Project PM: Kasey Jones
DATE: 5-2-12

	Water Level Data					Purge Volume Calculations					Purge Method				Sample Record			Field Data
	Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Bailer	Pump	other	DTW at sample time (feet)	Sample I.D	Sample Time	DO (mg/L)
6	DW-1	0851		6.40	16.49	10.09	2	0.5	5.05	6.25		X		Bubbler	6.84	DW-1	1133	2.24
5	DW-2	0847		6.06	16.56	10.50	2	0.5	5.25	6.25		X			6.30	DW-2	1046	1.98
7	DW-3	0856		6.92	16.61	9.69	2	0.5	4.85	5.00		X			7.74	DW-3	1202	2.02
3	DW-4	0837		6.85	16.78	9.93	2	0.5	4.97	~~5.00~~	10.00	X			6.88	DW-4	0938	2.06
4	DW-5	0842		6.04	16.84	10.80	2	0.5	5.40	5.50		X			~~6~~.35	DW-5	1016	2.93
2	DW-6	0737		7.65	16.83	9.18	2	0.5	4.59	4.75		X			7.81	DW-6	0824	2.88
1	DW-7	0732		7.46	16.71	9.25	2	0.5	4.63	4.75		X			7.55	DW-7	0758	2.56

* OPENED WELLS 15 MINUTES PRIOR TO GAUGING PER NOTE FROM PREVIOUS QM EVENTS

Multiplier
2" = 0.5 3" = 1.0 4" = 2.0 6" = 4.4

Please refer to groundwater sampling field procedures
pH/Conductivity/temperature Meter - Oakton Model PC-10
DO Meter - Oakton 300 Series (DO is always measured before purge)

CALIBRATION DATE
pH 4-30 SE
Conductivity ↓ ↓
DO

T:\Forms

STRATUS ENVIRONMENTAL INC

Site Address 6310 Houston Pl
City Dublin
Sampled By: Shane Edmunds
Signature Shane Edmunds

Site Number Bay Counties
Project Number 2094-6310-01
Project PM Kasey Jones
DATE 5-2-12

Well ID	DW-7				
Purge start time				Odor	Y (N)
	Temp C	pH	cond	gallons	
time 0746	16.3	6.89	905	0	
time 0749	16.6	6.81	976	2.5	
time 0752	16.7	6.80	1010	4.75	
time					
purge stop time	DO=2.50		ORP	139	

Well ID	DW-6				
Purge start time				Odor	Y (N)
0810	Temp C	pH 6.94	cond	gallons	
time ~~0846~~	16.8	~~6.89~~	1010	0	
time 0813	16.8	6.88	1041	2.5	
time 0816	16.7	6.88	1062	4.75	
time					
purge stop time	DO=2.88		ORP	32	

Well ID	DW-4				
Purge start time				Odor	Y (N)
	Temp C	pH	cond	gallons	
time 0905	14.6	7.04	1545	0	
time 0909	14.7	6.95	1503	2.5	
time 0913	15.5	6.90	1384	5.0	
time 0928				10.0*	
purge stop time	DO=2.06		ORP	-7	

Well ID	DW-5				
Purge start time				Odor	Y (N)
	Temp C	pH	cond	gallons	
time 1001	16.8	7.11	1410	0	
time 1006	16.5	7.07	1480	3.0	
time 1010	16.9	7.02	1353	5.5	
time					
purge stop time	DO=2.93		ORP	-29	

Well ID	DW-2				
Purge start time				Odor	Y (N)
	Temp C	pH	cond	gallons	
time 1030	17.9	7.29	1225	0	
time 1034	17.7	7.44	1344	3.0	
time 1038	17.6	7.41	1139	5.25	
time					
purge stop time	DO=1.98		ORP	-62	

Well ID	DW-1				
Purge start time				Odor	Y (N)
	Temp C	pH	cond	gallons	
time 1112	15.8	7.57	1955	0	
time 1116	16.1	7.66	3540	2.5	
time 1122	15.7	7.49	2770	5.25	
time					
purge stop time	DO=2.24		ORP	-47	

Well ID	DW-3				
Purge start time				Odor	Y (N)
	Temp C	pH	cond	gallons	
time 1144	15.8	7.18	1798	0	
time 1148	15.9	7.17	1694	2.5	
time 1152	16.0	7.14	1537	5.0	
time					
purge stop time	DO=2.02		ORP	-35	

Well ID					
Purge start time				Odor	Y N
	Temp C	pH	cond	gallons	
time					
time					
time					
time					
purge stop time			ORP		

*Double Purge per PM

- Wells DW 1-5 had lots of bubbles in purge water

STRATUS ENVIRONMENTAL, INC.

Site Address: 6310 Hanston Place
City: Dublin
Sampled by: KJ
Signature:

Site Number: Bay Counties
Project Number: 2094-6310-01
Project PM: K. Jones
DATE: 5-9-12

Water Level Data					Purge Volume Calculations					Purge Method				Sample Record			Field Data
Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Bailer	Pump	other	DTW at sample time (feet)	Sample I.D	Sample Time	DO (mg/L)
DW-1	0700		6.35	16.49	10.14	2	.5	5	5		X			6.89	DW-1	0800	2.17 ✓
DW-3	0700		6.88	16.60	9.72	2	.5	5	5		X			7.89	DW-3	0900	2.29 ✓
DW-5	0700		6.00	16.85	10.85	2	.5	5.5	5.5		X			6.72	DW-5	0740	2.34 ✓
DW-7	0700		7.41	16.71	9.30	2	.5	4.5	4.5		X			7.98	DW-7	0720	2.64 ✓

* Bubbles and soapy odor in purgewater

Multiplier
2" = 0.5 3" = 1.0 4" = 2.0 6" = 4.4

Please refer to groundwater sampling field procedures
pH/Conductivity/temperature Meter - Oakton Model PC-10
DO Meter - Oakton 300 Series (DO is always measured before purge)

SJC

CALIBRATION DATE

pH	4-30	SE
Conductivity		
DO		

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STRATUS
ENVIRONMENTAL, INC

Site Address 6310 Houston
City Dublin
Sampled By: KJ
Signature [signature]

Site Number Bay Counties
Project Number 2094-6310-01
Project PM K. Jones
DATE 5-9-12

Well ID	DW-7			
Purge start time	0700		Odor	Y (N)
	Temp C	pH	cond	gallons
time 0705	16.4	6.91	954	1.5
time 0715	16.4	6.98	977	3.0
time 0720	16.1	6.74	1001	4.5
time				
purge stop time	DO = 2.64		ORP	124

Well ID	DW-5			
Purge start time	0730		Odor	Y (N)
	Temp C	pH	cond	gallons
time 0730	16.7	6.87	1474	2.0
time 0735	16.5	6.81	1421	4.0
time 0740	16.5	6.91	1450	5.5
time				
purge stop time	DO = 2.34		ORP	56

Well ID	DW-1			
Purge start time			Odor	Y (N)
	Temp C	pH	cond	gallons
time 0745	17.0	6.57	1975	1.5
time 0750	16.8	6.66	1899	3.0
time 0800	16.5	6.70	1901	5.0
time				
purge stop time	DO = 2.17		ORP	45

Well ID	DW-3			
Purge start time	0830		Odor	Y (N)
	Temp C	pH	cond	gallons
time 0830	15.9	6.94	1774	1.5
time 0845	15.9	6.91	1769	3.0
time 0900	15.9	6.98	1790	5.0
time				
purge stop time	DO = 2.29		ORP	120

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

* Bubbles in purgewater

qv

STRATUS ENVIRONMENTAL, INC.

Site Address 6310 Houston Place
City Dublin, CA
Sampled by:
Signature

Site Number Bay Counties
Project Number 2094-6310-01
Project PM Kasey Jones
DATE 5-14-12

Re-Sample

Water Level Data					Purge Volume Calculations					Purge Method				Sample Record			Field Data
Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Bailer	Pump	other	DTW at sample time (feet)	Sample I.D	Sample Time	DO (mg/L)
DW-1	0500		6.69												DW-1A	0505	
DW-2	0518		6.39												DW-2	0523	
DW-3	0552		7.13												DW-3	0557	
DW-4	0613		7.20												DW-1C	0627	
DW-5	0534		6.36												DW-1B	0540	
															DW-4	0618	
		Bubbles - foam In Bailer															
		Odor of water Different Not GASSY															

Multiplier
2" = 0.5 3" = 1.0 4" = 2.0 6" = 4.4

Please refer to groundwater sampling field procedures
pH/Conductivity/temperature Meter - Oakton Model PC-10
DO Meter - Oakton 300 Series (DO is always measured before purge)

SV

CALIBRATION DATE
pH
Conductivity
DO

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APPENDIX B

SAMPLING AND ANALYSES PROCEDURES

SAMPLING AND ANALYSIS PROCEDURES

The sampling and analysis procedures as well as the quality assurance plan are contained in this appendix. The procedures and adherence to the quality assurance plan will provide for consistent and reproducible sampling methods; proper application of analytical methods; accurate and precise analytical results; and finally, these procedures will provide guidelines so that the overall objectives of the monitoring program are achieved.

Ground Water and Liquid-Phase Petroleum Hydrocarbon Depth Assessment

A water/hydrocarbon interface probe is used to assess the liquid-phase petroleum hydrocarbon (LPH) thickness, if present, and a water level indicator is used to measure the ground water depth in monitoring wells that do not contain LPH. Depth to ground water or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typical a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for hydrocarbon sheen.

Subjective Analysis of Ground Water

Prior to purging, a water sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

Monitoring Well Purging and Sampling

Monitoring wells are purged using a pump or bailer until pH, temperature, and conductivity of the purge water has stabilized and a minimum of three well volumes of water have been removed. If three well volumes can not be removed in one half hour's time the well is allowed to recharge to 80% of original level. After recharging, a ground water sample is then removed from each of the wells using a disposable bailer.

A Teflon bailer, electric submersible or bladder pump will be the only equipment used for well sampling. When samples for volatile organic analysis are being collected, the pump flow will be regulated at approximately 100 milliliters per minute to minimize pump effluent turbulence and aeration. Glass bottles of at least 40-milliliters volume and fitted with Teflon-lined septa will be used in sampling for volatile organics. These bottles will be filled completely to prevent air from remaining in the bottle. A positive meniscus forms when the bottle is completely full. A convex Teflon septum will be placed over the positive meniscus to eliminate air. After the bottle is capped, it is inverted and tapped to verify that it contains no air bubbles. The sample containers for other parameters will be filled, filtered as required, and capped.

The water sample is collected, labeled, and handled according to the Quality Assurance Plan. Water generated during the monitoring event is disposed of accruing to regulatory accepted method pertaining to the site.

QUALITY ASSURANCE PLAN

Procedures to provide data quality should be established and documented so that conditions adverse to quality, such as deficiencies, deviations, nonconforments, defective material, services, and/or equipment, can be promptly identified and corrected.

General Sample Collection and Handling Procedures

Proper collection and handling are essential to ensure the quality of a sample. Each sample is collected in a suitable container, preserved correctly for the intended analysis, and stored prior to analysis for no longer than the maximum allowable holding time. Details on the procedures for collection and handling of samples used on this project can be found in this section.

Soil and Water Sample Labeling and Preservation

Label information includes a unique sample identification number, job identification number, date, and time. After labeling all soil and water samples are placed in a Ziploc® type bag and placed in an ice chest cooled to approximately 4° Celsius. Upon arriving at Stratus' office the samples are transferred to a locked refrigerator cooled to approximately 4° Celsius. Chemical preservation is controlled by the required analysis and is noted on the chain-of-custody form. Trip blanks supplied by the laboratory accompany the groundwater sample containers and groundwater samples.

Upon recovery, the sample container is sealed to minimize the potential of volatilization and cross-contamination prior to chemical analysis. Soil sampling tubes are typically closed at each end with Teflon® sheeting and plastic caps. The sample is then placed in a Ziploc® type bag and sealed. The sample is labeled and refrigerated at approximately 4° Celsius for delivery, under strict chain-of-custody, to the analytical laboratory.

Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis has a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel, and any other pertinent field observations, is recorded on the borehole log or in the field records. The samples are analyzed by a California-certified laboratory.

A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquishes the samples by signing the chain-of-custody form and

noting the time. The sample-control officer at the laboratory verifies sample integrity and confirms that the samples are collected in the proper containers, preserved correctly, and contain adequate volumes for analysis. These conditions are noted on a Laboratory Sample Receipt Checklist that becomes part of the laboratory report upon request.

If these conditions are met, each sample is assigned a unique log number for identification throughout analysis and reporting. The log number is recorded on the chain-of-custody form and in the legally-required log book maintained by the laboratory. The sample description, date received, client's name, and other relevant information is also recorded.

Equipment Cleaning

Sample bottles, caps, and septa used in sampling for volatile and semivolatile organics will be triple rinsed with high-purity deionized water. After being rinsed, sample bottles will be dried overnight at a temperature of 200°C. Sample caps and septa will be dried overnight at a temperature of 60°C. Sample bottles, caps, and septa will be protected from solvent contact between drying and actual use at the sampling site. Sampling containers will be used only once and discarded after analysis is complete.

Plastic bottles and caps used in sampling for metals will be soaked overnight in a 1-percent nitric acid solution. Next, the bottles and caps will be triple rinsed with deionized water. Finally, the bottles and caps will be air dried before being used at the site. Plastic bottles and caps will be constructed of linear polyethylene or polypropylene. Sampling containers will be used only once and discarded after analysis is complete. Glass and plastic bottles used by Stratus to collect groundwater samples are supplied by the laboratory.

Before the sampling event is started, equipment that will be placed in the well or will come in contact with groundwater will be disassembled and cleaned thoroughly with detergent water, and then steam cleaned with deionized water. Any parts that may absorb contaminants, such as plastic pump valves, etc. will be cleaned as described above or replaced.

During field sampling, equipment surfaces that are placed in the well or contact groundwater will be steam cleaned with deionized water before the next well is purged or sampled. Equipment blanks will be collected and analyzed from non-disposable sampling equipment that is used for collecting groundwater samples at the rate of one blank per twenty samples collected.

Internal Quality Assurance Checks

Internal quality assurance procedures are designed to provide reliability of monitoring and measurement of data. Both field and laboratory quality assurance checks are necessary to evaluate the reliability of sampling and analysis results. Internal quality assurance procedures generally include:

- Laboratory Quality Assurance

  - Documentation of instrument performance checks
  - Documentation of instrument calibration
  - Documentation of the traceability of instrument standards, samples, and data
  - Documentation of analytical and QC methodology (QC methodology includes use of spiked samples, duplicate samples, split samples, use of reference blanks, and check standards to check method accuracy and precision)

- Field Quality Assurance

  - Documentation of sample preservation and transportation
  - Documentation of field instrument calibration and irregularities in performance

Internal laboratory quality assurance checks will be the responsibility of the contract laboratories. Data and reports submitted by field personnel and the contract laboratory will be reviewed and maintained in the project files.

Types of Quality Control Checks

Samples are analyzed using analytical methods outlined in EPA Manual SW 846 and approved by the California Regional Water Quality Control Board-Central Valley Region in the Leaking Underground Fuel Tanks (LUFT) manual and appendices. Standard contract laboratory quality control may include analysis or use of the following:

- Method blanks – reagent water used to prepare calibration standards, spike solutions, etc. is analyzed in the same manner as the sample to demonstrate that analytical interferences are under control.
- Matrix spiked samples – a known amount of spike solution containing selected constituents is added to the sample at concentrations at which the accuracy of the analytical method is to satisfactorily monitor and evaluate laboratory data quality.
- Split samples – a sample is split into two separate aliquots before analysis to assess the reproducibility of the analysis.
- Surrogate samples – samples are spiked with surrogate constituents at known concentrations to monitor both the performance of the analytical system and the effectiveness of the method in dealing with the sample matrix.
- Control charts – graphical presentation of spike or split sample results used to track the accuracy or precision of the analysis.
- Quality control check samples – when spiked sample analysis indicates atypical instrument performance, a quality check sample, which is prepared independently of the calibration standards and contains the constituents of interest, is analyzed to confirm that measurements were performed accurately.

- Calibration standards and devices – traceable standards or devices to set instrument response so that sample analysis results represent the absolute concentration of the constituent.

Field QA samples will be collected to assess sample handling procedures and conditions. Standard field quality control may include the use of the following, and will be collected and analyzed as outlined in EPA Manual SW 846.

- Field blanks – reagent water samples are prepared at the sampling location by the same procedure used to collect field groundwater samples and analyzed with the groundwater samples to assess the impact of sampling techniques on data quality. Typically, one field blank per twenty groundwater samples collected will be analyzed per sampling event.
- Field replicates – duplicate or triplicate samples are collected and analyzed to assess the reproducibility of the analytical data. One replicate groundwater sample per twenty samples collected will be analyzed per sampling event, unless otherwise specified. Triplicate samples will be collected only when specific conditions warrant and generally are sent to an alternate laboratory to confirm the accuracy of the routinely used laboratory.
- Trip blanks – reagent water samples are prepared before field work, transported and stored with the samples and analyzed to assess the impact of sample transport and storage for data quality. In the event that any analyte is detected in the field blank, a trip blank will be included in the subsequent groundwater sampling event.

Data reliability will be evaluated by the certified laboratory and reported on a cover sheet attached to the laboratory data report. Analytical data resulting from the testing of field or trip blanks will be included in the laboratory's report. Results from matrix spike, surrogate, and method blank testing will be reported, along with a statement of whether the samples were analyzed within the appropriate holding time.

Stratus will evaluate the laboratory's report on data reliability and note significant QC results that may make the data biased or unacceptable. Data viability will be performed as outlined in EPA Manual SW 846. If biased or unacceptable data is noted, corrective actions (including re-sample/re-analyze, etc.) will be evaluated on a site-specific basis.

APPENDIX C

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Kasey Jones
Phone: (530) 676-6000
Fax: (530) 676-6005
Date Received : 05/03/12

Job: 2094-6310-10/Bay Counties Petroleum

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Volatile Organic Compounds (VOCs) EPA Method SW8260B

		Parameter	Concentration		Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**DW-1**						
Lab ID :	STR12050340-01A	TPH-E (DRO), Silica Gel	89,000		5,000 µg/L	05/03/12	05/04/12
Date Sampled	05/02/12 11:33	Methyl tert-butyl ether (MTBE)	ND	O	500 µg/L	05/04/12	05/04/12
		Benzene	ND	O	500 µg/L	05/04/12	05/04/12
		Toluene	ND	O	500 µg/L	05/04/12	05/04/12
		Ethylbenzene	ND	O	500 µg/L	05/04/12	05/04/12
		m,p-Xylene	ND	O	500 µg/L	05/04/12	05/04/12
		o-Xylene	ND	O	500 µg/L	05/04/12	05/04/12
		Naphthalene	ND	O	4,000 µg/L	05/04/12	05/04/12
Client ID :	**DW-2**						
Lab ID :	STR12050340-02A	TPH-E (DRO), Silica Gel	23,000		5,000 µg/L	05/03/12	05/04/12
Date Sampled	05/02/12 10:46	Methyl tert-butyl ether (MTBE)	ND	O	250 µg/L	05/04/12	05/04/12
		Benzene	ND	O	250 µg/L	05/04/12	05/04/12
		Toluene	ND	O	250 µg/L	05/04/12	05/04/12
		Ethylbenzene	ND	O	250 µg/L	05/04/12	05/04/12
		m,p-Xylene	ND	O	250 µg/L	05/04/12	05/04/12
		o-Xylene	ND	O	250 µg/L	05/04/12	05/04/12
		Naphthalene	ND	O	2,000 µg/L	05/04/12	05/04/12
Client ID :	**DW-3**						
Lab ID :	STR12050340-03A	TPH-E (DRO), Silica Gel	53,000		5,000 µg/L	05/03/12	05/04/12
Date Sampled	05/02/12 12:02	Methyl tert-butyl ether (MTBE)	ND	O	250 µg/L	05/04/12	05/04/12
		Benzene	ND	O	250 µg/L	05/04/12	05/04/12
		Toluene	ND	O	250 µg/L	05/04/12	05/04/12
		Ethylbenzene	ND	O	250 µg/L	05/04/12	05/04/12
		m,p-Xylene	ND	O	250 µg/L	05/04/12	05/04/12
		o-Xylene	ND	O	250 µg/L	05/04/12	05/04/12
		Naphthalene	ND	O	2,000 µg/L	05/04/12	05/04/12
Client ID :	**DW-4**						
Lab ID :	STR12050340-04A	TPH-E (DRO), Silica Gel	33,000		500 µg/L	05/03/12	05/09/12
Date Sampled	05/02/12 09:38	Methyl tert-butyl ether (MTBE)	ND	O	100 µg/L	05/04/12	05/04/12
		Benzene	ND	O	100 µg/L	05/04/12	05/04/12
		Toluene	ND	O	100 µg/L	05/04/12	05/04/12
		Ethylbenzene	ND	O	100 µg/L	05/04/12	05/04/12
		m,p-Xylene	ND	O	100 µg/L	05/04/12	05/04/12
		o-Xylene	ND	O	100 µg/L	05/04/12	05/04/12
		Naphthalene	ND	O	800 µg/L	05/04/12	05/04/12

Alpha Analytical, Inc.

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Client ID :	**DW-5**						
Lab ID :	STR12050340-05A	TPH-E (DRO), Silica Gel	38,000		500 µg/L	05/03/12	05/09/12
Date Sampled	05/02/12 10:16	Methyl tert-butyl ether (MTBE)	ND	O	250 µg/L	05/04/12	05/04/12
		Benzene	ND	O	250 µg/L	05/04/12	05/04/12
		Toluene	ND	O	250 µg/L	05/04/12	05/04/12
		Ethylbenzene	ND	O	250 µg/L	05/04/12	05/04/12
		m,p-Xylene	ND	O	250 µg/L	05/04/12	05/04/12
		o-Xylene	ND	O	250 µg/L	05/04/12	05/04/12
		Naphthalene	ND	O	2,000 µg/L	05/04/12	05/04/12
Client ID :	**DW-6**						
Lab ID :	STR12050340-06A	TPH-E (DRO), Silica Gel	ND		50 µg/L	05/03/12	05/04/12
Date Sampled	05/02/12 08:24	Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	05/04/12	05/04/12
		Benzene	ND		0.50 µg/L	05/04/12	05/04/12
		Toluene	ND		0.50 µg/L	05/04/12	05/04/12
		Ethylbenzene	ND		0.50 µg/L	05/04/12	05/04/12
		m,p-Xylene	ND		0.50 µg/L	05/04/12	05/04/12
		o-Xylene	ND		0.50 µg/L	05/04/12	05/04/12
		Naphthalene	ND		2.0 µg/L	05/04/12	05/04/12
Client ID :	**DW-7**						
Lab ID :	STR12050340-07A	TPH-E (DRO), Silica Gel	ND		50 µg/L	05/03/12	05/04/12
Date Sampled	05/02/12 07:58	Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	05/04/12	05/04/12
		Benzene	ND		0.50 µg/L	05/04/12	05/04/12
		Toluene	ND		0.50 µg/L	05/04/12	05/04/12
		Ethylbenzene	ND		0.50 µg/L	05/04/12	05/04/12
		m,p-Xylene	ND		0.50 µg/L	05/04/12	05/04/12
		o-Xylene	ND		0.50 µg/L	05/04/12	05/04/12
		Naphthalene	ND		2.0 µg/L	05/04/12	05/04/12

Diesel Range Organics (DRO) C13-C22

O = Reporting Limits were increased due to sample foaming.

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

5/10/12

Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *10-May-12*

QC Summary Report

Work Order: 12050340

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B / E / SG**

File ID: **2A05011275.D** Batch ID: **28665SG** Analysis Date: **05/03/2012 17:20**

Sample ID: **MBLK-28665** Units : **µg/L** Run ID: **FID_2_120503B** Prep Date: **05/03/2012 15:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	ND	50								
Surr: Nonane, Silica Gel	135		150		90	49	145			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B / E / SG**

File ID: **2A05011274.D** Batch ID: **28665SG** Analysis Date: **05/03/2012 16:55**

Sample ID: **LCS-28665** Units : **µg/L** Run ID: **FID_2_120503B** Prep Date: **05/03/2012 15:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	2300	50	2500		92	70	130			
Surr: Nonane, Silica Gel	158		150		105	49	145			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B / E / SG**

File ID: **2A05011283.D** Batch ID: **28665SG** Analysis Date: **05/03/2012 20:40**

Sample ID: **12050326-27AMS** Units : **µg/L** Run ID: **FID_2_120503B** Prep Date: **05/03/2012 15:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	2480	50	2500	0	99	53	150			
Surr: Nonane, Silica Gel	142		150		95	49	145			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B / E / SG**

File ID: **2A05011284.D** Batch ID: **28665SG** Analysis Date: **05/03/2012 21:06**

Sample ID: **12050326-27AMSD** Units : **µg/L** Run ID: **FID_2_120503B** Prep Date: **05/03/2012 15:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	2410	50	2500	0	96	53	150	2476	2.8(47)	
Surr: Nonane, Silica Gel	109		150		73	49	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per Liter, per client request.

Alpha Analytical, Inc.

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VOC Sample Preservation Report

Work Order: STR12050340 **Job:** 2094-6310-10/Bay Counties Petroleum

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12050340-01A	DW-1	Aqueous	2
12050340-02A	DW-2	Aqueous	2
12050340-03A	DW-3	Aqueous	2
12050340-04A	DW-4	Aqueous	2
12050340-05A	DW-5	Aqueous	2
12050340-06A	DW-6	Aqueous	2
12050340-07A	DW-7	Aqueous	2

5/10/12

Report Date

Alpha Analytical, Inc.

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Date: *10-May-12*

QC Summary Report

Work Order: 12050340

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**

File ID: **12050405.D** Batch ID: **MS09W0504A** Analysis Date: **05/04/2012 12:04**

Sample ID: **MBLK MS09W0504A** Units : **µg/L** Run ID: **MSD_09_120504B** Prep Date: **05/04/2012 12:04**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Naphthalene	ND	2								
Surr: 1,2-Dichloroethane-d4	11.3		10		113	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	9.2		10		92	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8260B**

File ID: **12050403.D** Batch ID: **MS09W0504A** Analysis Date: **05/04/2012 11:20**

Sample ID: **LCS MS09W0504A** Units : **µg/L** Run ID: **MSD_09_120504B** Prep Date: **05/04/2012 11:20**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10.9	0.5	10		109	65	140			
Benzene	9.63	0.5	10		96	70	130			
Toluene	10.3	0.5	10		103	80	120			
Ethylbenzene	10.6	0.5	10		106	80	120			
m,p-Xylene	11.3	0.5	10		113	70	130			
o-Xylene	10.2	0.5	10		102	70	130			
Surr: 1,2-Dichloroethane-d4	9.93		10		99	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	8.82		10		88	70	130			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8260B**

File ID: **12050417.D** Batch ID: **MS09W0504A** Analysis Date: **05/04/2012 16:42**

Sample ID: **12050206-01AMS** Units : **µg/L** Run ID: **MSD_09_120504B** Prep Date: **05/04/2012 16:42**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	50.2	1.3	50	0	100	47	150			
Benzene	46.5	1.3	50	0	93	59	138			
Toluene	49.1	1.3	50	0	98	68	130			
Ethylbenzene	51.6	1.3	50	0	103	68	130			
m,p-Xylene	53.2	1.3	50	0	106	68	131			
o-Xylene	47.6	1.3	50	0	95	70	130			
Surr: 1,2-Dichloroethane-d4	53.8		50		108	70	130			
Surr: Toluene-d8	51		50		102	70	130			
Surr: 4-Bromofluorobenzene	44.7		50		89	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8260B**

File ID: **12050418.D** Batch ID: **MS09W0504A** Analysis Date: **05/04/2012 17:05**

Sample ID: **12050206-01AMSD** Units : **µg/L** Run ID: **MSD_09_120504B** Prep Date: **05/04/2012 17:05**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	49.5	1.3	50	0	99	47	150	50.21	1.4(40)	
Benzene	44	1.3	50	0	88	59	138	46.49	5.6(21)	
Toluene	45.6	1.3	50	0	91	68	130	49.07	7.3(20)	
Ethylbenzene	47.8	1.3	50	0	96	68	130	51.6	7.6(20)	
m,p-Xylene	49.4	1.3	50	0	99	68	131	53.24	7.5(20)	
o-Xylene	45.1	1.3	50	0	90	70	130	47.6	5.5(20)	
Surr: 1,2-Dichloroethane-d4	52.6		50		105	70	130			
Surr: Toluene-d8	50.1		50		100	70	130			
Surr: 4-Bromofluorobenzene	44.5		50		89	70	130			

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *10-May-12*

QC Summary Report

Work Order: 12050340

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA AMENDED

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR12050340

Report Due By : 5:00 PM On : 10-May-12

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention	Phone Number	EMail Address
Kasey Jones	(530) 676-6000 x	kaseyjones@stratusinc.net

EDD Required : **Yes**

Sampled by : Shane Edmunds

PO :

Client's COC # : 59628 Job : 2094-6310-10/Bay Counties Petroleum

Cooler Temp	Samples Received	Date Printed
2 °C	03-May-12	**10-May-12**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/E_SG_W	VOC_W	Sample Remarks
STR12050340-01A	DW-1	AQ	05/02/12 11:33	6	0	5	Silica Gel (C)	BTXE/MTBE Napthalene_C	
STR12050340-02A	DW-2	AQ	05/02/12 10:46	6	0	5	Silica Gel (C)	BTXE/MTBE Napthalene_C	
STR12050340-03A	DW-3	AQ	05/02/12 12:02	6	0	5	Silica Gel (C)	BTXE/MTBE Napthalene_C	
STR12050340-04A	DW-4	AQ	05/02/12 09:38	6	0	5	Silica Gel (C)	BTXE/MTBE Napthalene_C	
STR12050340-05A	DW-5	AQ	05/02/12 10:16	6	0	5	Silica Gel (C)	BTXE/MTBE Napthalene_C	
STR12050340-06A	DW-6	AQ	05/02/12 08:24	6	0	5	Silica Gel (C)	BTXE/MTBE Napthalene_C	
STR12050340-07A	DW-7	AQ	05/02/12 07:58	6	0	5	Silica Gel (C)	BTXE/MTBE Napthalene_C	

Comments: Security seals intact. Frozen ice. Amended 5/10/12 to remove TPH/E, due to login error. SN :

	Signature	Print Name	Company	Date/Time
Logged in by:		Sarah Neri	Alpha Analytical, Inc.	5/10/12 1312

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : STR12050340

Report Due By : 5:00 PM On : 10-May-12

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention	Phone Number	EMail Address
Kasey Jones	(530) 676-6000 x	kaseyjones@stratusinc.net

EDD Required : **Yes**

Sampled by : Shane Edmunds

PO :

Client's COC # : 59628 Job : 2094-6310-10/Bay Counties Petoleum

Cooler Temp	Samples Received	Date Printed
2 °C	03-May-12	**03-May-12**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/E_SG_W	TPH/E_W	VOC_W	Sample Remarks
STR12050340-01A	DW-1	AQ	05/02/12 11:33	6	0	5	Silica Gel (C)	TPH E_C	BTXE/MTBE/Napthalene_C	
STR12050340-02A	DW-2	AQ	05/02/12 10:46	6	0	5	Silica Gel (C)	TPH E_C	BTXE/MTBE/Napthalene_C	
STR12050340-03A	DW-3	AQ	05/02/12 12:02	6	0	5	Silica Gel (C)	TPH E_C	BTXE/MTBE/Napthalene_C	
STR12050340-04A	DW-4	AQ	05/02/12 09:38	6	0	5	Silica Gel (C)	TPH E_C	BTXE/MTBE/Napthalene_C	
STR12050340-05A	DW-5	AQ	05/02/12 10:16	6	0	5	Silica Gel (C)	TPH E_C	BTXE/MTBE/Napthalene_C	
STR12050340-06A	DW-6	AQ	05/02/12 08:24	6	0	5	Silica Gel (C)	TPH E_C	BTXE/MTBE/Napthalene_C	
STR12050340-07A	DW-7	AQ	05/02/12 07:58	6	0	5	Silica Gel (C)	TPH E_C	BTXE/MTBE/Napthalene_C	

Comments: Security seals intact, Frozen ice. :

	Signature	Print Name	Company	Date/Time
Logged in by:		Sarah Neri	Alpha Analytical, Inc.	5/3/12 1048

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

59268

Billing Information:

Company Name: STRATUS ENVIRONMENTAL
Attn: KASEY JONES
Address: 3330 CAMERON PARK DR. #550
City, State, Zip: CAMERON PARK, CA
Phone Number: 530-676-6004 Fax:

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ___ CA X NV ___ WA ___ DOD Site ___
ID ___ OR ___ OTHER ___

Page # 1 of 1

Consultant / Client Name: Bay Counties Petroleum
Address: 6310 Houston Place
City, State, Zip: Dublin, CA

Job # 2094-6310-10
Job Name:

Report Attention / Project Manager
Name:
Email:
Phone: Mobile:

Analyses Required

Data Validation Level: III or IV

EDD / EDF? YES X NO ___
Global ID # T0600113164

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. # / Lab ID Number	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	DRO 8015M w/ Silica Gel Cleanup	BTEX, MTBE	Naphthalene by 8260	REMARKS
1133	5/2	AQ	STR1205034	0-01A	DW-1	STD		6V	X	X	X	
1046				02A	DW-2							
1202				03A	DW-3							
0938				04A	DW-4							
1016				05A	DW-5							
0824				06A	DW-6							
0758	V	V		07A	DW-7	V		V	V	V	V	

FOR LAB USE ONLY

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: Shane Edmunds

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date	Time
Shane Edmunds	Jade Silva	5-2-12	1520
Jade Silva 5-2-12 1600	Alpha	5/3/12	1030
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Kasey Jones
Phone: (530) 676-6000
Fax: (530) 676-6005
Date Received : 05/10/12

Job: 2094-6310-01/Bay Counties

Dissolved Metals by ICPMS
EPA Method 200.8

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **DW-1**				
Lab ID : STR12051045-01A Chromium (Cr), Dissolved	ND	20 µg/L	05/10/12	05/11/12
Date Sampled 05/09/12 08:00 Iron (Fe), Dissolved	1,200	1,200 µg/L	05/10/12	05/11/12
Copper (Cu), Dissolved	ND	40 µg/L	05/10/12	05/11/12
Arsenic (As), Dissolved	37	8.0 µg/L	05/10/12	05/11/12
Selenium (Se), Dissolved	ND	20 µg/L	05/10/12	05/11/12
Cadmium (Cd), Dissolved	ND	4.0 µg/L	05/10/12	05/11/12
Barium (Ba), Dissolved	ND	20 µg/L	05/10/12	05/11/12
Lead (Pb), Dissolved	ND	20 µg/L	05/10/12	05/11/12
Client ID: **DW-3**				
Lab ID : STR12051045-02A Chromium (Cr), Dissolved	ND	20 µg/L	05/10/12	05/11/12
Date Sampled 05/09/12 09:00 Iron (Fe), Dissolved	1,800	1,200 µg/L	05/10/12	05/11/12
Copper (Cu), Dissolved	ND	40 µg/L	05/10/12	05/11/12
Arsenic (As), Dissolved	26	8.0 µg/L	05/10/12	05/11/12
Selenium (Se), Dissolved	ND	20 µg/L	05/10/12	05/11/12
Cadmium (Cd), Dissolved	ND	4.0 µg/L	05/10/12	05/11/12
Barium (Ba), Dissolved	62	20 µg/L	05/10/12	05/11/12
Lead (Pb), Dissolved	ND	20 µg/L	05/10/12	05/11/12
Client ID: **DW-5**				
Lab ID : STR12051045-03A Chromium (Cr), Dissolved	ND	20 µg/L	05/10/12	05/11/12
Date Sampled 05/09/12 07:40 Iron (Fe), Dissolved	3,600	1,200 µg/L	05/10/12	05/11/12
Copper (Cu), Dissolved	ND	40 µg/L	05/10/12	05/11/12
Arsenic (As), Dissolved	17	8.0 µg/L	05/10/12	05/11/12
Selenium (Se), Dissolved	ND	20 µg/L	05/10/12	05/11/12
Cadmium (Cd), Dissolved	ND	4.0 µg/L	05/10/12	05/11/12
Barium (Ba), Dissolved	45	20 µg/L	05/10/12	05/11/12
Lead (Pb), Dissolved	ND	20 µg/L	05/10/12	05/11/12
Client ID: **DW-7**				
Lab ID : STR12051045-04A Chromium (Cr), Dissolved	30	20 µg/L	05/10/12	05/11/12
Date Sampled 05/09/12 07:20 Iron (Fe), Dissolved	3,400	1,200 µg/L	05/10/12	05/11/12
Copper (Cu), Dissolved	ND	40 µg/L	05/10/12	05/11/12
Arsenic (As), Dissolved	34	8.0 µg/L	05/10/12	05/11/12
Selenium (Se), Dissolved	ND	20 µg/L	05/10/12	05/11/12
Cadmium (Cd), Dissolved	ND	4.0 µg/L	05/10/12	05/11/12
Barium (Ba), Dissolved	71	20 µg/L	05/10/12	05/11/12
Lead (Pb), Dissolved	ND	20 µg/L	05/10/12	05/11/12

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

5/11/12

Report Date

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA RUSH!

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR12051045

Report Due By : 5:00 PM On : 11-May-12

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention	Phone Number	EMail Address
Kasey Jones	(530) 676-6000 x	kascyjones@stratusinc.net

EDD Required : **Yes**

Sampled by : client

PO :

Client's COC # : 57391 Job : 2094-6310-01/Bay Counties

Cooler Temp	Samples Received	Date Printed
0 °C	10-May-12	**10-May-12**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests: METALS_DS								Sample Remarks
STR12051045-01A	DW-1	AQ	05/09/12 08:00	1	0	1	Cu, As, Cd, Ba, Cr, Fe, Se, Pb								
STR12051045-02A	DW-3	AQ	05/09/12 09:00	1	0	1	Cu, As, Cd, Ba, Cr, Fe, Se, Pb								
STR12051045-03A	DW-5	AQ	05/09/12 07:40	1	0	1	Cu, As, Cd, Ba, Cr, Fe, Se, Pb								
STR12051045-04A	DW-7	AQ	05/09/12 07:20	1	0	1	Cu, As, Cd, Ba, Cr, Fe, Se, Pb								

Comments: Security seals intact. Frozen ice. 24 hr TAT ;

	Signature	Print Name	Company	Date/Time
Logged in by:		Sarah Nen	Alpha Analytical, Inc.	5/10/12 1037

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

57391

Billing Information:
Company Name STRATUS Environmental, Inc.
Attn: Kasey Jones
Address 3330 Cameron Park Dr, #550
City, State, Zip Cameron Park, CA
Phone Number (415) 516-0373 Fax (530) 676-6005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ___ CA X NV ___ WA ___ DOD Site ___
ID ___ OR ___ OTHER ___ Page # 1 of 1

Consultant / Client Name: Bay Counties Petroleum
Address: 6310 Houston Place
City, State, Zip: Dublin, CA 94502

Job # 2094-6310-01 Job Name: Bay Counties

Report Attention / Project Manager
Name: Kasey Jones
Email: Kaseyjones@stratusinc.net
Phone: ___ Mobile: 415.516.0373

Time Sampled	Date Sampled 2012	Matrix* See Key Below	P.O. # / Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Dissolved Metals	Data Validation Level: III or IV
0800	5/9	W	STR12051045-01A	DW-1	48		1P	X	Metals to include: Cu, As, Cd, Ba, Cr, Fe, Se, & Pb by EPA Method 200.8
0900	↓	↓	02A	DW-3	↓		↓	↓	
0740			03A	DW-5					
0720			04A	DW-7					

FOR LAB USE ONLY

EDD / EDF? YES ✓ NO ___
Global ID # T0600113164

REMARKS

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: ___

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date	Time
STRATUS	E. Fruciano	10:19	5.08.12
S-9-12 16:00	Alpha	5/10/12	10:30

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

Alpha Analytical, Inc.
255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

June 12, 2012

Kasey Jones
Stratus Enviornmental, In.c
Senior Project Manager

RE: Bay Counties Petroleum Samples for TPH-DRO

Groundwater samples from Bay Counties Petroleum were analyzed by EPA Method 8015B for TPH-Diesel and Oil Range (DRO and ORO) hydrocarbons. The samples contained material which eluted in the diesel and oil ranges, and exhibited a series of homologous peaks. The majority of this material was later identified by GC/MS as material composed primarily of ethoxaleted surfactants that elute in the DRO range, thus initially resulting in falsely-elevated DRO concentrations.

Chronology of Analytical Steps

1) The groundwater samples were extracted with hexane.
2) Before analysis, the hexane extract was mixed with approximately 0.5 gram of silica gel. This shake-out silica gel cleanup procedure is commonly used to remove low levels of biogenic material often found in groundwater samples.
3) After the original analysis was completed, data from a split laboratory revealed that their silica-gel results, which utilized a column-type procedure, were much more effective at removing the surfactants.
4) Alpha then performed the same silica gel column-type procedure where a small column was filled with silica gel and the hexane extract from the sample was rinsed through the column. This column-type procedure is appropriate for high-levels of surfactant material because more silica-gel is available for cleanup. This procedure appeared to clean up approximately 98% of the surfactant.

If you have any further questions, please call.

Sincerely,

Randy Gardner
Laboratory Manager
Alpha Analytical, Inc.
800-283-1183
randyg@alpha-analytical.com

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Kasey Jones
Phone: (530) 676-6000
Fax: (530) 676-6005
Date Received : 05/15/12

Job: Bay Counties Petroleum

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Volatile Organic Compounds (VOCs) EPA Method SW8260B

		Parameter	Concentration		Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**DW-1 A**						
Lab ID :	STR12051543-01A	TPH-E (DRO), Silica Gel	71		50 µg/L	05/15/12	05/24/12
Date Sampled	05/14/12 05:05	Methyl tert-butyl ether (MTBE)	ND	O	25 µg/L	05/18/12	05/18/12
		Benzene	ND	O	25 µg/L	05/18/12	05/18/12
		Toluene	ND	O	25 µg/L	05/18/12	05/18/12
		Ethylbenzene	ND	O	25 µg/L	05/18/12	05/18/12
		m,p-Xylene	ND	O	25 µg/L	05/18/12	05/18/12
		o-Xylene	ND	O	25 µg/L	05/18/12	05/18/12
		Naphthalene	ND	O	200 µg/L	05/18/12	05/18/12
Client ID :	**DW-2**						
Lab ID :	STR12051543-02A	TPH-E (DRO), Silica Gel	450		50 µg/L	05/15/12	05/24/12
Date Sampled	05/14/12 05:23	Methyl tert-butyl ether (MTBE)	ND	O	10 µg/L	05/18/12	05/18/12
		Benzene	ND	O	10 µg/L	05/18/12	05/18/12
		Toluene	ND	O	10 µg/L	05/18/12	05/18/12
		Ethylbenzene	ND	O	10 µg/L	05/18/12	05/18/12
		m,p-Xylene	ND	O	10 µg/L	05/18/12	05/18/12
		o-Xylene	ND	O	10 µg/L	05/18/12	05/18/12
		Naphthalene	ND	O	80 µg/L	05/18/12	05/18/12
Client ID :	**DW-3**						
Lab ID :	STR12051543-03A	TPH-E (DRO), Silica Gel	1,300		50 µg/L	05/15/12	05/24/12
Date Sampled	05/14/12 05:57	Methyl tert-butyl ether (MTBE)	ND	O	25 µg/L	05/18/12	05/18/12
		Benzene	ND	O	25 µg/L	05/18/12	05/18/12
		Toluene	ND	O	25 µg/L	05/18/12	05/18/12
		Ethylbenzene	ND	O	25 µg/L	05/18/12	05/18/12
		m,p-Xylene	ND	O	25 µg/L	05/18/12	05/18/12
		o-Xylene	ND	O	25 µg/L	05/18/12	05/18/12
		Naphthalene	ND	O	200 µg/L	05/18/12	05/18/12
Client ID :	**DW-1 C**						
Lab ID :	STR12051543-04A	TPH-E (DRO), Silica Gel	ND		50 µg/L	05/15/12	05/25/12
Date Sampled	05/14/12 06:27	Methyl tert-butyl ether (MTBE)	ND	O	25 µg/L	05/18/12	05/18/12
		Benzene	ND	O	25 µg/L	05/18/12	05/18/12
		Toluene	ND	O	25 µg/L	05/18/12	05/18/12
		Ethylbenzene	ND	O	25 µg/L	05/18/12	05/18/12
		m,p-Xylene	ND	O	25 µg/L	05/18/12	05/18/12
		o-Xylene	ND	O	25 µg/L	05/18/12	05/18/12
		Naphthalene	ND	O	200 µg/L	05/18/12	05/18/12

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID :	**DW-1 B**						
Lab ID :	STR12051543-05A	TPH-E (DRO), Silica Gel	190		50 µg/L	05/15/12	05/25/12
Date Sampled	05/14/12 05:40	Methyl tert-butyl ether (MTBE)	ND	O	50 µg/L	05/18/12	05/18/12
		Benzene	ND	O	50 µg/L	05/18/12	05/18/12
		Toluene	ND	O	50 µg/L	05/18/12	05/18/12
		Ethylbenzene	ND	O	50 µg/L	05/18/12	05/18/12
		m,p-Xylene	ND	O	50 µg/L	05/18/12	05/18/12
		o-Xylene	ND	O	50 µg/L	05/18/12	05/18/12
		Naphthalene	ND	O	400 µg/L	05/18/12	05/18/12
Client ID :	**DW-4**						
Lab ID :	STR12051543-06A	TPH-E (DRO), Silica Gel	140		50 µg/L	05/15/12	05/25/12
Date Sampled	05/14/12 06:18	Methyl tert-butyl ether (MTBE)	ND	O	10 µg/L	05/18/12	05/18/12
		Benzene	ND	O	10 µg/L	05/18/12	05/18/12
		Toluene	ND	O	10 µg/L	05/18/12	05/18/12
		Ethylbenzene	ND	O	10 µg/L	05/18/12	05/18/12
		m,p-Xylene	ND	O	10 µg/L	05/18/12	05/18/12
		o-Xylene	ND	O	10 µg/L	05/18/12	05/18/12
		Naphthalene	ND	O	80 µg/L	05/18/12	05/18/12

Diesel Range Organics (DRO) C13-C22

Due to saturation levels of non-hydrocarbon material in the samples, the original extracts were washed through a second silica-gel column to remove the high levels of polar interferences.

O = Reporting Limits were increased due to sample foaming.

This replaces the report signed 5/22/12. TPH-E samples were re-analyzed, per client request.

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

5/30/12

Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: STR12051543 **Job:** Bay Counties Petroleum

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12051543-01A	DW-1 A	Aqueous	2
12051543-02A	DW-2	Aqueous	2
12051543-03A	DW-3	Aqueous	2
12051543-04A	DW-1 C	Aqueous	2
12051543-05A	DW-1 B	Aqueous	2
12051543-06A	DW-4	Aqueous	2

5/22/12

Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 21-May-12

QC Summary Report

Work Order: 12051543

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B / E / SG**
File ID: **7A05101273.D** Batch ID: **28738SG** Analysis Date: **05/16/2012 10:26**
Sample ID: **MBLK-28738** Units : **µg/L** Run ID: **FID_7_120515B** Prep Date: **05/15/2012 14:35**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	ND	50								
Surr: Nonane, Silica Gel	159		150		106	49	145			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B / E / SG**
File ID: **7A05101274.D** Batch ID: **28738SG** Analysis Date: **05/16/2012 10:53**
Sample ID: **LCS-28738** Units : **µg/L** Run ID: **FID_7_120515B** Prep Date: **05/15/2012 14:35**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	2420	50	2500		97	70	130			
Surr: Nonane, Silica Gel	164		150		109	49	145			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B / E / SG**
File ID: **7A05101282.D** Batch ID: **28738SG** Analysis Date: **05/16/2012 14:26**
Sample ID: **12051541-07AMS** Units : **µg/L** Run ID: **FID_7_120515B** Prep Date: **05/15/2012 14:35**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	3050	50	2500	0	122	53	150			
Surr: Nonane, Silica Gel	169		150		113	49	145			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B / E / SG**
File ID: **7A05101284.D** Batch ID: **28738SG** Analysis Date: **05/16/2012 15:21**
Sample ID: **12051541-07AMSD** Units : **µg/L** Run ID: **FID_7_120515B** Prep Date: **05/15/2012 14:35**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	2630	50	2500	0	105	53	150	3054	15.1(47)	
Surr: Nonane, Silica Gel	141		150		94	49	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per Liter, per client request.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 21-May-12

QC Summary Report

Work Order: 12051543

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**
File ID: **12051805.D** Batch ID: **MS09W0518A** Analysis Date: **05/18/2012 12:12**
Sample ID: **MBLK MS09W0518A** Units : **µg/L** Run ID: **MSD_09_120518A** Prep Date: **05/18/2012 12:12**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Naphthalene	ND	2								
Surr: 1,2-Dichloroethane-d4	11.6		10		116	70	130			
Surr: Toluene-d8	10.2		10		102	70	130			
Surr: 4-Bromofluorobenzene	9.39		10		94	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8260B**
File ID: **12051803.D** Batch ID: **MS09W0518A** Analysis Date: **05/18/2012 11:26**
Sample ID: **LCS MS09W0518A** Units : **µg/L** Run ID: **MSD 09 120518A** Prep Date: **05/18/2012 11:26**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10.7	0.5	10		107	65	140			
Benzene	9.27	0.5	10		93	70	130			
Toluene	9.6	0.5	10		96	80	120			
Ethylbenzene	10.2	0.5	10		102	80	120			
m,p-Xylene	10.7	0.5	10		107	70	130			
o-Xylene	9.81	0.5	10		98	70	130			
Surr: 1,2-Dichloroethane-d4	11.4		10		114	70	130			
Surr: Toluene-d8	9.9		10		99	70	130			
Surr: 4-Bromofluorobenzene	8.75		10		88	70	130			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8260B**
File ID: **12051819.D** Batch ID: **MS09W0518A** Analysis Date: **05/18/2012 18:00**
Sample ID: **12051642-02AMS** Units : **µg/L** Run ID: **MSD_09_120518A** Prep Date: **05/18/2012 18:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	50.4	1.3	50	0	101	47	150			
Benzene	48	1.3	50	0	96	59	138			
Toluene	47.9	1.3	50	0	96	68	130			
Ethylbenzene	53.2	1.3	50	0	106	68	130			
m,p-Xylene	54.5	1.3	50	0	109	68	131			
o-Xylene	50.2	1.3	50	0	100	70	130			
Surr: 1,2-Dichloroethane-d4	61.6		50		123	70	130			
Surr: Toluene-d8	47.8		50		96	70	130			
Surr: 4-Bromofluorobenzene	42.2		50		84	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8260B**
File ID: **12051820.D** Batch ID: **MS09W0518A** Analysis Date: **05/18/2012 18:23**
Sample ID: **12051642-02AMSD** Units : **µg/L** Run ID: **MSD_09_120518A** Prep Date: **05/18/2012 18:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	53.6	1.3	50	0	107	47	150	50.39	6.1(40)	
Benzene	48.3	1.3	50	0	97	59	138	48.03	0.5(21)	
Toluene	48.8	1.3	50	0	98	68	130	47.89	1.9(20)	
Ethylbenzene	53.6	1.3	50	0	107	68	130	53.16	0.8(20)	
m,p-Xylene	55.2	1.3	50	0	110	68	131	54.5	1.3(20)	
o-Xylene	51	1.3	50	0	102	70	130	50.18	1.6(20)	
Surr: 1,2-Dichloroethane-d4	59.6		50		119	70	130			
Surr: Toluene-d8	48.5		50		97	70	130			
Surr: 4-Bromofluorobenzene	42.7		50		85	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

AMENDED

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR12051543

Report Due By : 5:00 PM On : 22-May-12

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention	Phone Number	EMail Address
Kasey Jones	(530) 676-6000 x	kaseyjones@stratusinc.net

EDD Required : **Yes**

Sampled by : C. Hill

PO :

Client's COC # : 57693 Job : Bay Counties Petroleum

Cooler Temp	Samples Received	Date Printed
2 °C	15-May-12	**16-May-12**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/E_SG_W	VOC_W						Sample Remarks
STR12051543-01A	DW-1 A	AQ	05/14/12 05:05	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C						
STR12051543-02A	DW-2	AQ	05/14/12 05:23	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C						
STR12051543-03A	DW-3	AQ	05/14/12 05:57	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C						
STR12051543-04A	DW-1 C	AQ	05/14/12 06:27	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C						
STR12051543-05A	DW-1 B	AQ	05/14/12 05:40	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene C						
STR12051543-06A	DW-4	AQ	05/14/12 06:18	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C						

Comments: Security seals intact. Frozen ice. Sample -01A labeled DW-1A, logged in per COC. Amended 5/16/12 to change sample -01A ID per Renee. SN :

	Signature	Print Name	Company	Date/Time
Logged in by:		Sarah Neri	Alpha Analytical, Inc.	5/16/12 1153

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR12051543

Report Due By : 5:00 PM On : 22-May-12

Report Attention	Phone Number	EMail Address
Kasey Jones	(530) 676-6000 x	kaseyjones@stratusinc.net

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

EDD Required : **Yes**

Sampled by : C. Hill

PO :

Client's COC # : 57693 Job : Bay Counties Petroleum

Cooler Temp	Samples Received	Date Printed
2 °C	15-May-12	**15-May-12**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/E_SG_W	VOC_W	Sample Remarks
STR12051543-01A	DW-1	AQ	05/14/12 05:05	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C	
STR12051543-02A	DW-2	AQ	05/14/12 05:23	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C	
STR12051543-03A	DW-3	AQ	05/14/12 05:57	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C	
STR12051543-04A	DW-1 C	AQ	05/14/12 06:27	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C	
STR12051543-05A	DW-1 B	AQ	05/14/12 05:40	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C	
STR12051543-06A	DW-4	AQ	05/14/12 06:18	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C	

Comments: Security seals intact. Frozen ice. Sample -01A labeled DW-1A, logged in per COC.

	Signature	Print Name	Company	Date/Time
Logged in by:		Sarah Neu	Alpha Analytical, Inc.	5/15/12 1110

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

57693

Billing Information:
Company Name: Stratus
Attn: Kasey Jones
Address: 3330 Cameron Pk DR
City, State, Zip: Cameron Pk
Phone Number: 530 676 6004 Fax: 530 676 6005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ___ CA X NV ___ WA ___ DOD Site ___
ID ___ OR ___ OTHER ___

Page # 1 of 1

Consultant / Client Name: BAY Counties Petro | Job # Lenn | Job Name
Address
City, State, Zip: Dublin
Report Attention / Project Manager
Name: Kasey
Email:
Phone: ___ Mobile: ___

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. # / Lab ID Number	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	DRO 8015M Silica Gel Cleanup	BTEX, MTBE 8260B	Naphthalene 8260B	Analyses Required	Data Validation Level: III or IV	REMARKS
0505	5/4/12	AQ	STR120515 43 -01A		Dw-1	STD		6-V	X	X	X			
0523				02A	Dw-2	STD		6-V	X	X	X			
0557				03A	Dw-3	STD		6-V	X	X	X			
0627				04A	Dw-1C	STD		6-V	X	X	X			
0540				05A	Dw-1B	STD		6-V	X	X	X			
0618				06A	Dw-4	STD		6-V	X	X	X			

EDD / EDF? YES ___ NO ___
Global ID # ___

FOR LAB USE ONLY

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: Q Hill

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date: 5-14-12	Time: 935
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation) Alpha	Date: 5/15/12	Time: 11:00
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

KIFF Analytical LLC

Report Number : 81252
Date : 05/22/2012

Laboratory Results

Kasey Jones
Stratus Environmental, Inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682

Subject : 6 Water Samples
Project Name : Bay Counties Petroleum Dublin
Project Number :

Dear Mr. Jones,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy G. Turpen

Troy Turpen

KIFF Analytical LLC

Report Number : 81252
Date : 05/22/2012

Subject : 6 Water Samples
Project Name : Bay Counties Petroleum Dublin
Project Number :

Case Narrative

Matrix Spike/Matrix Spike Duplicate results associated with sample DW-1A for the analyte Methyl-t-butyl ether were outside of control limits. This may indicate a bias for the sample that was spiked. Since the LCS recoveries were within control limits, no data are flagged.

Surrogate Recovery for sample DW-1B for test method Mod. EPA 8015 was outside of control limits. This may indicate a bias in the analysis due to the sample's matrix or an interference from compounds present in the sample.

KIFF Analytical LLC

Report Number : 81252
Date : 05/22/2012

Project Name : **Bay Counties Petroleum Dublin**
Project Number :

Sample : **DW-1A** Matrix : Water Lab Number : 81252-01
Sample Date :05/14/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/18/12 16:47
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/18/12 16:47
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/18/12 16:47
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/18/12 16:47
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/18/12 16:47
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	05/18/12 16:47
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	05/18/12 16:47
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	05/18/12 16:47
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	05/18/12 16:47
TPH as Diesel (Silica Gel)	**100**	50	ug/L	M EPA 8015	05/18/12 16:16
Octacosane (Silica Gel Surr)	94.7		% Recovery	M EPA 8015	05/18/12 16:16

KIFF Analytical LLC

Report Number : 81252
Date : 05/22/2012

Project Name : **Bay Counties Petroleum Dublin**
Project Number :

Sample : **DW-2** Matrix : Water Lab Number : 81252-02
Sample Date :05/14/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 00:52
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 00:52
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 00:52
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 00:52
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 00:52
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 00:52
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	05/17/12 00:52
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	05/17/12 00:52
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	05/17/12 00:52
TPH as Diesel (Silica Gel)	**260**	50	ug/L	M EPA 8015	05/18/12 16:45
Octacosane (Silica Gel Surr)	91.8		% Recovery	M EPA 8015	05/18/12 16:45

KIFF Analytical LLC

Report Number : 81252
Date : 05/22/2012

Project Name : **Bay Counties Petroleum Dublin**
Project Number :

Sample : **DW-3** Matrix : Water Lab Number : 81252-03
Sample Date :05/14/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 01:28
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 01:28
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 01:28
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 01:28
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 01:28
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 01:28
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	EPA 8260B	05/17/12 01:28
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	05/17/12 01:28
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	05/17/12 01:28
TPH as Diesel (Silica Gel)	**740**	50	ug/L	M EPA 8015	05/18/12 17:15
Octacosane (Silica Gel Surr)	73.8		% Recovery	M EPA 8015	05/18/12 17:15

KIFF Analytical LLC

Report Number : 81252
Date : 05/22/2012

Project Name : **Bay Counties Petroleum Dublin**
Project Number :

Sample : **DW-4** Matrix : Water Lab Number : 81252-06
Sample Date :05/14/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 03:24
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 03:24
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 03:24
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 03:24
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 03:24
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 03:24
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	05/17/12 03:24
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	05/17/12 03:24
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	05/17/12 03:24
TPH as Diesel (Silica Gel)	**110**	50	ug/L	M EPA 8015	05/18/12 18:43
(Note: Discrete peaks in Diesel range, atypical for Diesel Fuel.)					
Octacosane (Silica Gel Surr)	87.9		% Recovery	M EPA 8015	05/18/12 18:43

KIFF Analytical LLC

Report Number : 81252
Date : 05/22/2012

Project Name : **Bay Counties Petroleum Dublin**
Project Number :

Sample : **DW-1C** Matrix : Water Lab Number : 81252-04
Sample Date :05/14/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:08
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:08
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:08
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:08
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:08
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:08
1,2-Dichloroethane-d4 (Surr)	110		% Recovery	EPA 8260B	05/17/12 02:08
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	05/17/12 02:08
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	05/17/12 02:08
TPH as Diesel (Silica Gel)	**4000**	50	ug/L	M EPA 8015	05/18/12 17:44
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
Octacosane (Silica Gel Surr)	96.0		% Recovery	M EPA 8015	05/18/12 17:44

KIFF Analytical LLC

Report Number : 81252
Date : 05/22/2012

Project Name : **Bay Counties Petroleum Dublin**
Project Number :

Sample : **DW-1B** Matrix : Water Lab Number : 81252-05
Sample Date :05/14/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:46
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:46
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:46
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:46
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:46
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:46
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	05/17/12 02:46
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	05/17/12 02:46
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	05/17/12 02:46
TPH as Diesel (Silica Gel)	**250**	50	ug/L	M EPA 8015	05/18/12 18:14
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.)					
Octacosane (Silica Gel Surr)	42.6		% Recovery	M EPA 8015	05/18/12 18:14

Report Number : 81252

Date : 05/22/2012

QC Report : Method Blank Data

Project Name : **Bay Counties Petroleum Dublin**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	05/15/2012
Octacosane (Silica Gel Surr)	108		%	M EPA 8015	05/15/2012
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/16/2012
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/16/2012
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/16/2012
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/16/2012
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/16/2012
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	05/16/2012
1,2-Dichloroethane-d4 (Surr)	104		%	EPA 8260B	05/16/2012
4-Bromofluorobenzene (Surr)	103		%	EPA 8260B	05/16/2012
Toluene - d8 (Surr)	96.6		%	EPA 8260B	05/16/2012
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/2012
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/2012
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/17/2012
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/17/2012
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/2012
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	05/17/2012
1,2-Dichloroethane-d4 (Surr)	97.9		%	EPA 8260B	05/17/2012
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	05/17/2012
Toluene - d8 (Surr)	102		%	EPA 8260B	05/17/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

KIFF ANALYTICAL, LLC

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

Report Number : 81252

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 05/22/2012

Project Name : **Bay Counties Petroleum Dublin**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)														
	BLANK	<50	1000	1000	848	860	ug/L	M EPA 8015	5/15/12	84.8	86.0	1.39	70-130	25
Benzene														
	81277-02	<0.50	39.7	39.9	39.7	39.4	ug/L	EPA 8260B	5/16/12	100	98.6	1.41	80-120	25
Ethylbenzene														
	81277-02	<0.50	39.7	39.9	40.8	40.2	ug/L	EPA 8260B	5/16/12	103	101	2.07	80-120	25
Methyl-t-butyl ether														
	81277-02	<0.50	39.7	39.9	40.3	40.2	ug/L	EPA 8260B	5/16/12	102	100	1.07	69.7-121	25
Naphthalene														
	81277-02	0.52	39.7	39.9	40.3	39.6	ug/L	EPA 8260B	5/16/12	100	97.9	2.34	70.0-130	25
P + M Xylene														
	81277-02	<0.50	39.7	39.9	40.1	39.6	ug/L	EPA 8260B	5/16/12	101	99.2	1.73	76.8-120	25
Toluene														
	81277-02	<0.50	39.7	39.9	40.5	40.1	ug/L	EPA 8260B	5/16/12	102	100	1.73	80-120	25
Benzene														
	81292-01	<0.50	39.8	39.8	40.0	40.2	ug/L	EPA 8260B	5/18/12	101	101	0.170	80-120	25
Ethylbenzene														
	81292-01	<0.50	39.8	39.8	40.6	41.4	ug/L	EPA 8260B	5/18/12	102	104	1.75	80-120	25

KIFF ANALYTICAL, LLC

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

Report Number : 81252

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 05/22/2012

Project Name : **Bay Counties Petroleum Dublin**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Methyl-t-butyl ether														
Naphthalene	81292-01	<0.50	39.8	39.8	48.4	39.6	ug/L	EPA 8260B	5/18/12	**122**	99.3	20.2	69.7-121	25
P + M Xylene	81292-01	<0.50	39.8	39.8	36.3	37.0	ug/L	EPA 8260B	5/18/12	91.2	93.0	1.94	70.0-130	25
Toluene	81292-01	<0.50	39.8	39.8	39.9	41.0	ug/L	EPA 8260B	5/18/12	100	103	2.60	76.8-120	25
	81292-01	<0.50	39.8	39.8	40.6	41.2	ug/L	EPA 8260B	5/18/12	102	104	1.26	80-120	25

KIFF ANALYTICAL, LLC

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

Report Number : 81252

QC Report : Laboratory Control Sample (LCS)

Date : 05/22/2012

Project Name : **Bay Counties Petroleum Dublin**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	5/16/12	99.1	80-120
Ethylbenzene	40.0	ug/L	EPA 8260B	5/16/12	102	80-120
Methyl-t-butyl ether	40.0	ug/L	EPA 8260B	5/16/12	99.0	69.7-121
Naphthalene	40.0	ug/L	EPA 8260B	5/16/12	91.1	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	5/16/12	100	76.8-120
Toluene	40.0	ug/L	EPA 8260B	5/16/12	102	80-120
Benzene	40.0	ug/L	EPA 8260B	5/17/12	101	80-120
Ethylbenzene	40.0	ug/L	EPA 8260B	5/17/12	103	80-120
Methyl-t-butyl ether	40.0	ug/L	EPA 8260B	5/17/12	100	69.7-121
Naphthalene	40.0	ug/L	EPA 8260B	5/17/12	98.9	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	5/17/12	101	76.8-120
Toluene	40.0	ug/L	EPA 8260B	5/17/12	104	80-120

KIFF ANALYTICAL, LLC

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

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95618
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 81252

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Kasey Jones

California EDF Report? ☐ Yes ☐ No

Company / Address: Stratus 3330 Cameron Pk Dr

Sampling Company Log Code:

Phone Number: 1415 516 0373

Global ID:

Fax Number: 1530 676 6005

EDF Deliverable To (Email Address):

Project #:

P.O. #:

Bill to: Stratus

Project Name: BAY Counties Petroleum Dublin

Sampler Print Name: CHILL

Sampler Signature:

Project Address:

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air
DW-1A	5/14/12	0505	X					X	X		X		
DW-2		0523	X					X	X		X		
DW-3		0537	X					X	X		X		
DW-1C		0627	X					X	X		X		
DW-1B		0540	X					X	X		X		
DW-4	5/14/12	0618	X					X	X		X		

Analysis Request

Sample Designation	MTBE @ 0.5 ppb (EPA 8260B)	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (MTBE, DIPE, ETBE, TAME, TBA) (EPA 8260B)	7 Oxygenates (5 oxy + EtOH, MeOH) (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M) w/ Silica Gel Cleanup	TPH as Motor Oil (EPA 8015M)	CAM 17 Metals (EPA 200.7 / 6010)	5 Waste Oil Metals (Cd,Cr,Ni,Pb,Zn) (EPA 200.7 / 6010)	Mercury (EPA 245.1 / 7470 / 7471)	Total Lead (EPA 200.7 / 6010)	W.E.T. Lead (STLC)	Naphthalene 8260B	For Lab Use Only
DW-1A	X	X								X							01
DW-2	X	X								X							02
DW-3	X	X								X							03
DW-1C	X	X								X							04
DW-1B	X	X								X							05
DW-4	X	X								X						X	06

CIRCLE METHOD

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72hr ☒ 1 wk

Relinquished by:	Date	Time	Received by:
	5/14/12	0905	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	051412	0905	

Remarks:

Page 13 of 14

Distribution: White - Lab; Pink - Originator
Rev: 060409

KIFF Analytical LLC

SAMPLE RECEIPT CHECKLIST

RECEIVER Initials: Em

SRG#: 81252 Date: 051412

Project ID: Bay Countries Petroleum Dublin

Method of Receipt: ☐ Courier ☒ Over-the-counter ☐ Shipper

COC Inspection

Is COC present?	☒ Yes	☐ No		
Custody seals on shipping container?	☐ Intact	☐ Broken	☐ Not present	☒ N/A
Is COC Signed by Relinquisher? ☒ Yes ☐ No Dated?	☒ Yes	☐ No		
Is sampler name legibly indicated on COC?	☐ Yes	☒ No		
Is analysis or hold requested for all samples?	☒ Yes	☐ No		
Is the turnaround time indicated on COC?	☒ Yes	☐ No		
Is COC free of whiteout and uninitialed cross-outs? (write over)	☒ Yes	☐ No, Whiteout	☐ No, Cross-outs	

Sample Inspection

Coolant Present: ☒ Yes ☐ No (includes water)

Temperature °C 10.6 Therm. ID# TR-4 Initial Em Date/Time 051412 0905 ☐ N/A

Are there custody seals on sample containers?	☐ Intact	☐ Broken	☒ Not present	
Do containers match COC? ☒ Yes ☐ No	☐ No, COC lists absent sample(s)	☐ No, Extra sample(s) present		
Are there samples matrices other than soil, water, air or carbon?	☐ Yes	☒ No		
Are any sample containers broken, leaking or damaged?	☐ Yes	☒ No		
Are preservatives indicated? ☐ Yes, on sample containers	☒ Yes, on COC	☐ Not indicated	☐ N/A	
Are preservatives correct for analyses requested?	☒ Yes	☐ No	☐ N/A	
Are samples within holding time for analyses requested?	☒ Yes	☐ No		
Are the correct sample containers used for the analyses requested?	☒ Yes	☐ No		
Is there sufficient sample to perform testing?	☒ Yes	☐ No		

Does any sample contain product, have strong odor or are otherwise suspected to be hot? ☐ Yes ☒ No

Receipt Details

Matrix WA Container type Voa # of containers received 3e

Matrix _____ Container type _____ # of containers received _____

Matrix _____ Container type _____ # of containers received _____

Date and Time Sample Put into Temp Storage Date: 051412 Time: 0905

Quicklog

Are the Sample ID's indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If Sample ID's are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	
Is the Project ID indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If project ID is listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	
Are the sample collection dates indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If collection dates are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	
Are the sample collection times indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If collection times are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	

COMMENTS:

APPENDIX D

GEOTRACKER ELECTRONIC SUBMITTAL CONFIRMATIONS

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

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

Submittal Type:	**GEO_WELL**
Submittal Title:	**GeoWell 5-2-12**
Facility Global ID:	**T0600113164**
Facility Name:	**BAY COUNTIES PETROLEUM**
File Name:	**GEO_WELL.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**5/9/2012 8:26:13 AM**
Confirmation Number:	**2267212867**

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

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

Submittal Type:	**EDF - Monitoring Report - Quarterly**
Submittal Title:	**Analytical 5-2-12**
Facility Global ID:	**T0600113164**
Facility Name:	**BAY COUNTIES PETROLEUM**
File Name:	**12050340_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**6/1/2012 7:27:19 AM**
Confirmation Number:	4675933122

VIEW QC REPORT

VIEW DETECTIONS REPORT

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

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Submittal Type:	**EDF - Monitoring Report - Quarterly**
Submittal Title:	**Analytical 5-9-12**
Facility Global ID:	**T0600113164**
Facility Name:	**BAY COUNTIES PETROLEUM**
File Name:	**12051045_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**7/16/2012 12:56:47 PM**
Confirmation Number:	**6030197083**

VIEW QC REPORT

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STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

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Your file has been successfully submitted!

Submittal Type:	**EDF - Monitoring Report - Quarterly**
Submittal Title:	**Analytical 5-14-12 ALPHA**
Facility Global ID:	**T0600113164**
Facility Name:	**BAY COUNTIES PETROLEUM**
File Name:	**12051543R_EDF.zip**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**6/1/2012 7:25:22 AM**
Confirmation Number:	6187850892

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VIEW DETECTIONS REPORT

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

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

Submittal Type:	**EDF - Monitoring Report - Quarterly**
Submittal Title:	**Analytical 5-14-12 KIFF**
Facility Global ID:	**T0600113164**
Facility Name:	**BAY COUNTIES PETROLEUM**
File Name:	**EDF_BayCountiesPetroleum_81252.ZIP**
Organization Name:	**Stratus Environmental, Inc.**
Username:	**STRATUS NOCAL**
IP Address:	**12.186.106.98**
Submittal Date/Time:	**7/13/2012 1:24:50 PM**
Confirmation Number:	6722610414

VIEW QC REPORT

VIEW DETECTIONS REPORT