

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

RECEIVED

1:09 pm, Feb 21, 2012

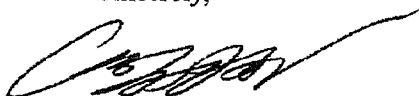
Alameda County
Environmental Health

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



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

February 17, 2012
Project No. 2094-6310-01

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

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

Dear Mr. Khatri:

Stratus Environmental, Inc. (Stratus) is submitting the attached report, which presents an update of work performed during the first 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.

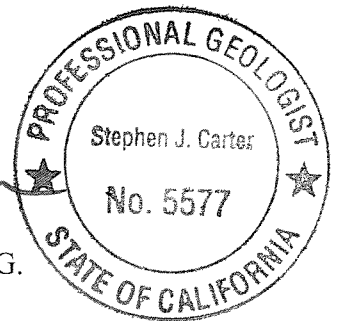
If you have any questions regarding this project, please contact Mr. Kasey Jones at (415) 576-0373.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Kasey Jones
Project Manager

Stephen J. Carter, P.G.
Senior Geologist



Attachment: Quarterly Monitoring and Sampling Report, First Quarter 2012

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

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: Paresh Khatri, Alameda County Environmental Health Department (ACEHD) Case No. RO0002862

WORK PERFORMED THIS QUARTER (First Quarter 2012):

- On January 4, 2012, Stratus conducted the first quarter 2012 semi-annual groundwater monitoring 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 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.

WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2012):

- Based on the historical monitoring and analytical data for this site, Stratus recommends the site be considered for low-risk closure. Assuming concurrence from ACEHD with this recommendation, Stratus anticipates that the existing groundwater monitoring wells will be abandoned during the second quarter 2012.

| | |
|---|--|
| Current Phase of Project: | <u>Groundwater Monitoring</u> |
| Frequency of Groundwater Monitoring and Sampling: | <u>All Wells = Semi-annual (1st and 3rd)</u> |
| Groundwater Sampling Date: | <u>January 4, 2012</u> |
| Is Free Product (FP) Present on Site: | <u>No (Sheen noted in DW-3)</u> |
| Approximate Depth to Groundwater: | <u>7.72 to 9.17 feet below top of well casing.</u> |
| Groundwater Flow Direction / Gradient: | <u>West-northwest / 0.008 ft/ft</u> |

DISCUSSION:

On January 4, 2012, Stratus conducted the first quarter 2012 semi-annual groundwater monitoring and sampling activities. Prior to sampling, all wells were gauged for depth to water, temperature, pH, conductivity, DO and ORP. A sheen was noted in onsite well DW-3. Groundwater samples were analyzed at a state-certified analytical laboratory 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. Groundwater elevation data and analytical results are summarized in Table 1.

At the time of the January 2012 groundwater monitoring event, depth to groundwater was measured between 7.72 and 9.17 feet below ground surface (bgs) in all monitoring wells. Groundwater elevations decreased between 1.46 and 1.68 feet in all wells since the last monitoring event (July 5, 2011). 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 west-northwest with a calculated gradient of 0.008 ft/ft. Historical groundwater flow has been toward the west, southwest and south-southwest.

Concentrations of BTEX or naphthalene were not reported in any of the sampled wells during first quarter 2012. DRO was reported in onsite wells DW-1 (390 micrograms per liter ($\mu\text{g/L}$)), DW-2 (1,600 $\mu\text{g/L}$), DW-3 (9,000 $\mu\text{g/L}$), DW-4 (88 $\mu\text{g/L}$), and DW-5 (380 $\mu\text{g/L}$). A very low concentration of MTBE was also reported in onsite well DW-4 (0.80 $\mu\text{g/L}$). No concentrations of any sampled analytes were reported in offsite wells (DW-6 and DW-7) during first quarter 2012. Tabulated groundwater analytical data are summarized in Table 1. Certified Analytical results are presented in Appendix C. DRO, benzene, and MTBE concentrations for groundwater samples collected during the first quarter 2012 are presented in Figure 3. The pH for sample DW-4 was greater than 2.0, and the reporting limits for naphthalene in wells DW-5 and DW-7 were raised due to sample foaming. Petroleum hydrocarbon concentrations during the first quarter 2012 are generally consistent with historical data.

DISCUSSION OF SITE CONDITIONS:

The current phase of environmental assessment at this site was initiated in April 2007, and during this time, twelve groundwater monitoring and sampling events have been performed. Groundwater flow during this period has been generally toward the west, southwest and south-southwest. Chemicals of concern during this phase of the investigation include DRO, BTEX, MTBE and naphthalene. BTEX and naphthalene have never been reported in the monitoring well network. MTBE is consistently reported in well DW-4, but the reported concentrations (0.67 to 0.94 $\mu\text{g/L}$) are below both the primary and secondary Maximum Contaminant Levels (MCL).

DRO has consistently been reported in wells DW-1 through DW-5, but has never been reported in wells DW-6 or DW-7. The highest DRO concentrations were reported in July 2007, and since that time, the DRO concentrations have exhibited generally decreasing trends (DRO concentrations versus elapsed time are presented in Appendix E). Trend line regressions fitted to the DRO data indicate that in wells DW-1 through DW-3 and DW-5, DRO concentrations should fall below 100 $\mu\text{g/L}$ in approximately 2.5 to 5 years (calculations are included in Appendix E). The trend line regression for DRO in Well DW-4 appears to indicate that concentrations exhibit a slightly rising trend, but the extremely low R^2 value (0.0006) indicates the trend line does not fit the data with any degree of confidence, and the trend line is essentially meaningless. DRO concentrations in this well are relatively low compared to the DRO concentrations in other wells, and are currently below 100 $\mu\text{g/L}$.

RECOMMENDATION:

The site data indicates DRO and MTBE are the only chemicals of concern present in the groundwater. MTBE concentrations have historically been below MCLs. DRO concentrations generally exhibit decreasing trends, and based on these trends, the concentrations should drop below 100 $\mu\text{g/L}$ in 2.5 to 5 years. The hydrocarbon plume appears stable and does not appear to be moving. These conditions meet the closure consideration criteria previously discussed with ACEHD. We therefore recommend that the current monitoring and sampling program be discontinued, and that the site be considered for low-risk closure.

ATTACHMENTS:

- Table 1 Groundwater Elevation and Analytical Summary
- Figure 1 Site Location Map
- Figure 2 Groundwater Elevation Contour Map, First Quarter 2012
- Figure 3 Groundwater Analytical Summary, First 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
- Appendix E Graphs of DRO Concentrations vs. Elapsed Time

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) | Ethylbenzene (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 | |
| 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 | |
| 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 | |

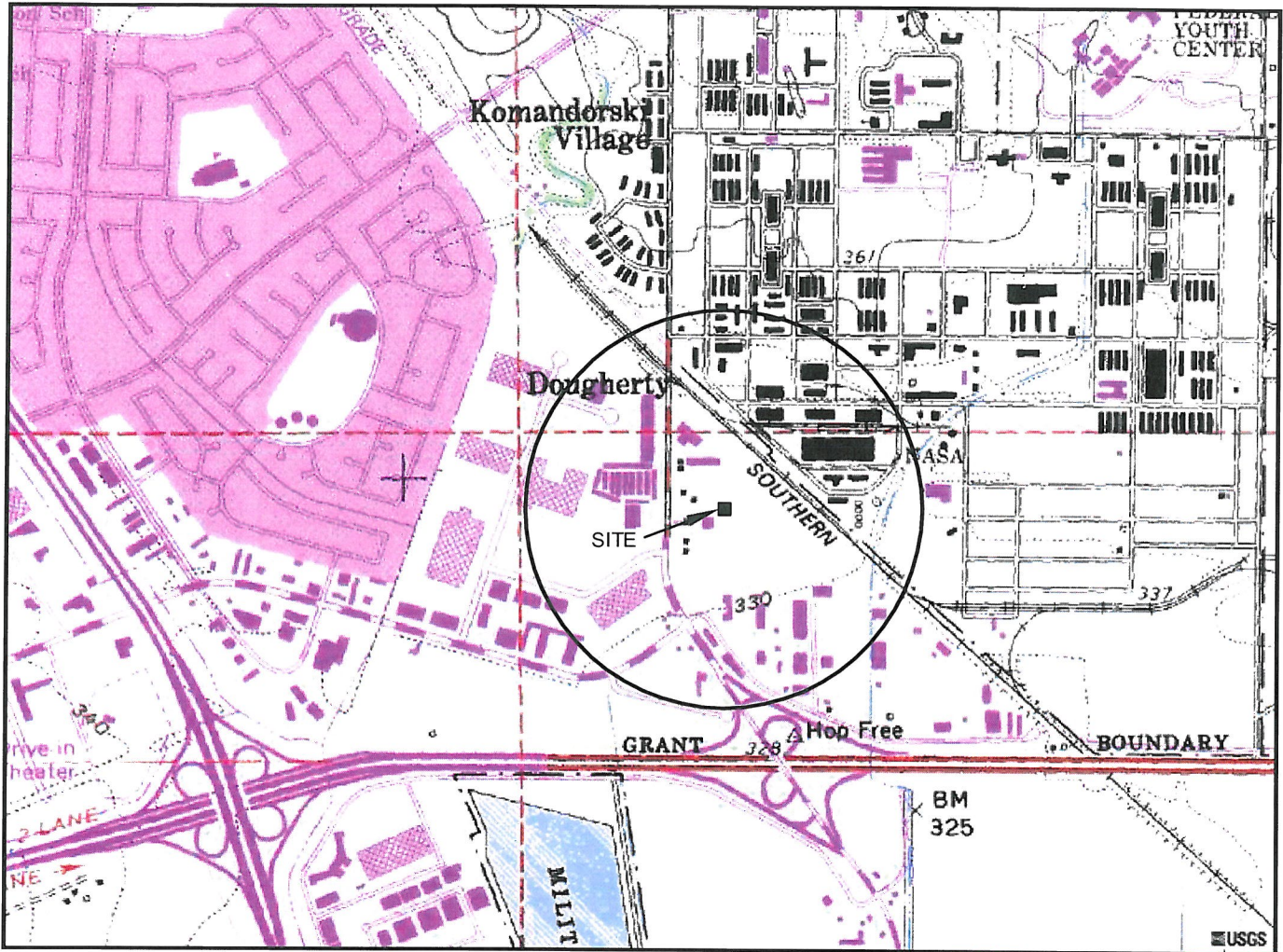
TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
6310 Houston Place, Dublin, CA

| 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) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphthalene (µg/L) |
|-------------|----------------|-----------------------|-------------------------|--------------------------------|--------------|----------------|----------------|---------------------|----------------------|-------------|--------------------|
| 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 | |
| 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] | |
| 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 | |

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] |

Notes:
*Data through January 11, 2010, reported by AEI Contultants.
**Prior to 8/3/10, reported as TPH-D
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.
-- = Not analyzed



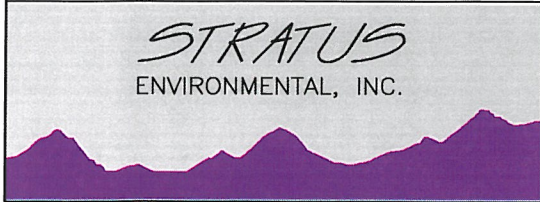
GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 DUBLIN, CA.
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 1989



APPROXIMATE SCALE



QUADRANGLE LOCATION



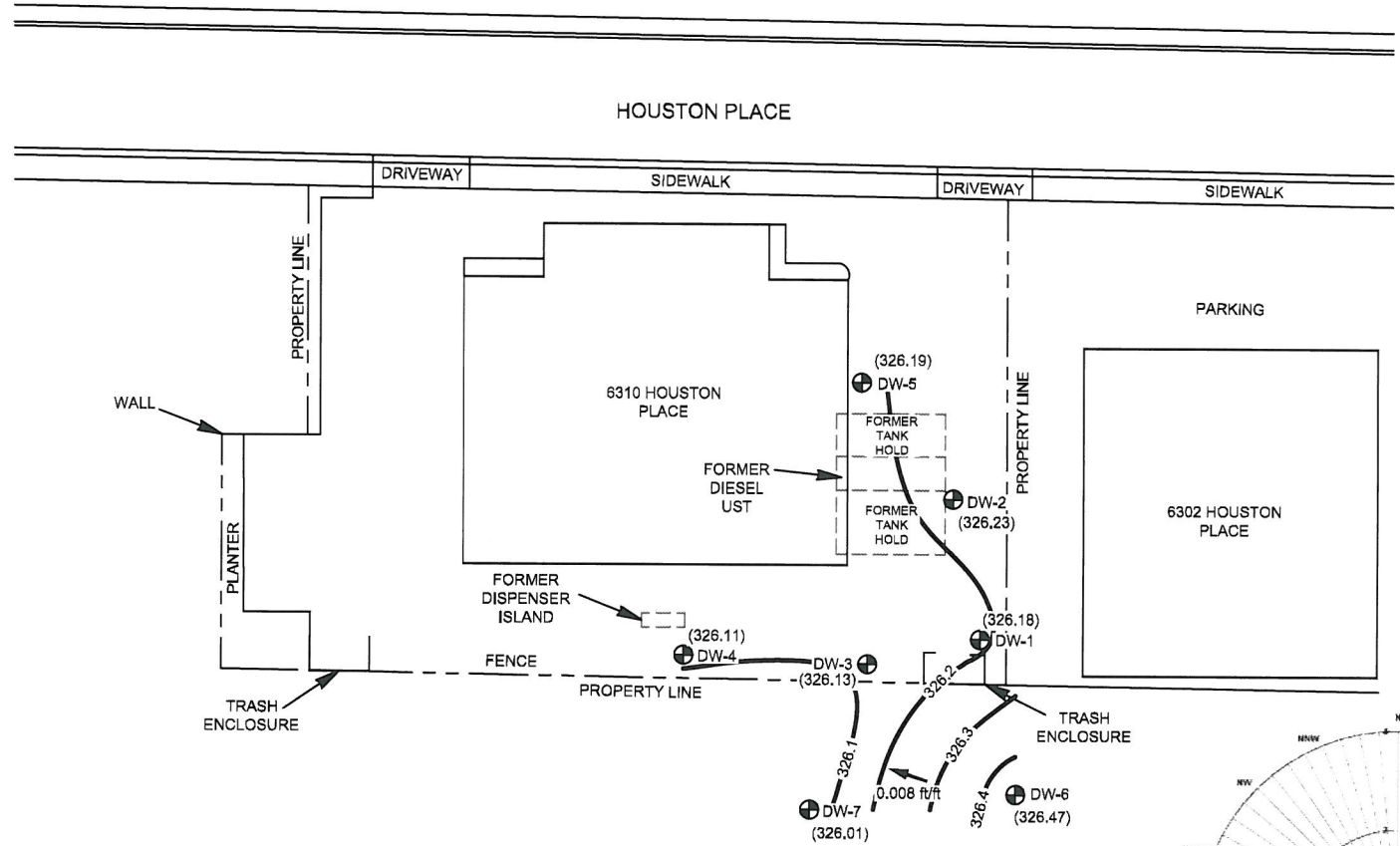
6310 HOUSTON PLACE
 DUBLIN, CALIFORNIA

SITE LOCATION MAP

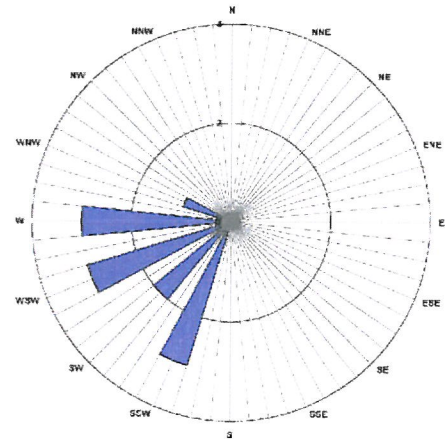
FIGURE

1

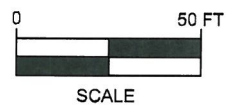
PROJECT NO.
 2094-6310-01



- LEGEND**
- DW-1 MONITORING WELL LOCATION
 - (326.18) GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
 - 327.6— WATER TABLE CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL
 - INFERRED DIRECTION OF GROUND WATER FLOW
- WELLS MEASURED: 1/04/12



Bay Counties/Quarterly JMP
 REV
 January 18, 2012
 Bay Co Quarterly Figures

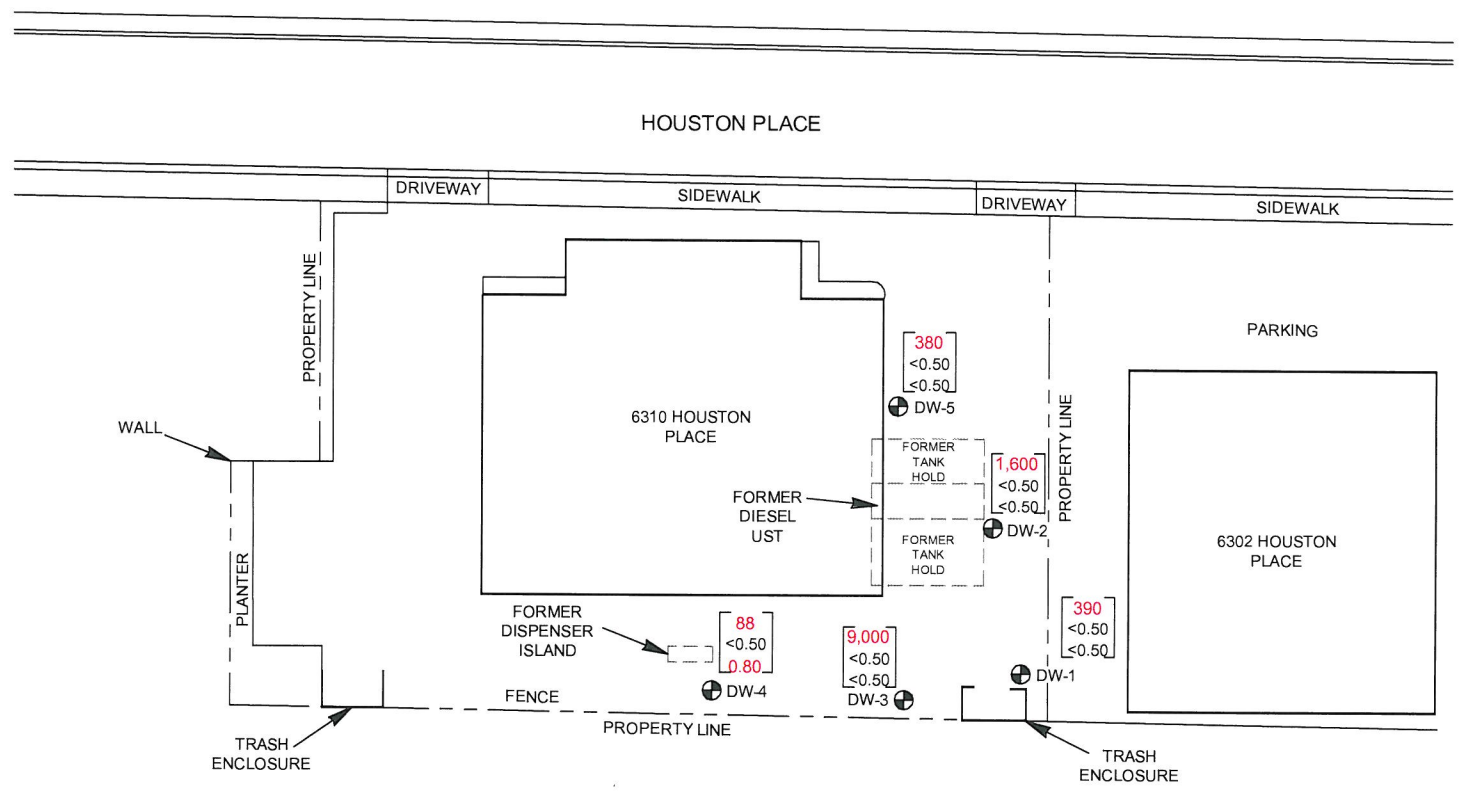


6310 HOUSTON PLACE
 DUBLIN, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
 1st QUARTER 2012

FIGURE
 2
 PROJECT NO.
 2094-6310-01

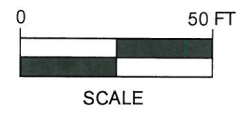
Bay Counties Quarterly J.M.P. REV January 18, 2012 Bay Co Quarterly Figures



LEGEND

- ⊕ DW-1 MONITORING WELL LOCATION
- [<50] DIESEL RANGE ORGANICS (DRO) IN µg/L
- [<0.50] BENZENE CONCENTRATION IN µg/L
- [<0.50] METHYL TERTIARY BUTYL ETHER (MTBE) IN µg/L

SAMPLES COLLECTED ON 1/04/12
 DRO ANALYZED BY EPA METHOD 8015B
 BENZENE & MTBE ANALYZED BY EPA METHOD 8260B



6310 HOUSTON PLACE
DUBLIN, CALIFORNIA

GROUNDWATER ANALYTICAL SUMMARY
1st QUARTER 2012

FIGURE
3
PROJECT NO.
2094-6310-01

APPENDIX A
FIELD DATA SHEETS



Site Address 6310 Houston Place
 City Dublin, CA
 Sampled by: Vince Zalutka
 Signature [Signature]

Site Number Bay Counties
 Project Number 2094-6310-01
 Project PM Kasey Jones
 DATE 1-4-12

| 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 | 0620 | | 8.05 | 16.50 | 8.45 | 2 | .5 | 4.23 | 4.25 | | X | | Low | 8.25 | DW-1 | 0901 | 1.61 |
| | 0603 | | 7.77 | 16.60 | 8.83 | | | 4.42 | 4.50 | | X | | Low | 7.98 | .2 | 0850 | 1.91 |
| | 0627 | Sheen | 8.43 | 16.70 | 8.27 | | | 4.14 | 4.00 | | X | | | 8.82 | .3 | 0733 | 1.26 |
| | 0751 | | 8.38 | 16.75 | 8.37 | | | 4.19 | 4.00 | | X | | Low | 8.60 | .4 | 0833 | 1.47 |
| | 0612 | | 7.72 | 16.85 | 9.13 | | | 4.57 | 4.50 | | X | | | 8.25 | .5 | 0703 | 1.98 |
| | 0937 | | 8.52 | 16.85 | 8.33 | | | 4.17 | 4.00 | | X | | | 9.20 | .6 | 1012 | 1.53 |
| | 0932 | | 9.17 | 16.70 | 7.53 | | | 3.77 | 3.75 | | X | | | 9.27 | .7 | 0952 | 1.91 |
| | | | | | Wells opened 15+ min. prior to gauging | | | | | | | | | | | | |

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 1-4-12
 Conductivity [Signature]
 DO [Signature]



Site Address 6310 Houston Place
 City Dublin
 Sampled By: Vince Zalutka
 Signature VZ

Site Number Bay Counties
 Project Number 2094-6310-01
 Project PM Kasey Jones
 DATE 01-04-12

| | | | | | | | | | |
|------------------------------|--------------|--|--------------|-------------|------------------------------|--------------|--|--------------|-------------|
| Well ID <u>DW-5</u> | | | | | Well ID <u>DW-3</u> | | | | |
| Purge start time <u>0644</u> | | Odor Y <input checked="" type="checkbox"/> N | | | Purge start time <u>0716</u> | | Odor <input checked="" type="checkbox"/> N | | |
| <u>Bail</u> | Temp C | pH | cond | gallons | <u>Bail</u> | Temp C | pH | cond | gallons |
| time <u>0644</u> | <u>14.7</u> | <u>7.10</u> | <u>2.83m</u> | <u>2</u> | time 0653 | <u>15.3</u> | <u>7.35</u> | <u>1898</u> | <u>2</u> |
| time <u>0653</u> | <u>17.5</u> | <u>7.21</u> | <u>2.83m</u> | <u>2.25</u> | time <u>0724</u> | <u>16.2</u> | <u>7.38</u> | <u>1839</u> | <u>2</u> |
| time <u>0703</u> | <u>17.1</u> | <u>7.35</u> | <u>2.85m</u> | <u>4.5</u> | time <u>0733</u> | <u>16.3</u> | <u>7.40</u> | <u>1751</u> | <u>4</u> |
| time | | | | | time | | | | |
| purge stop time <u>0703</u> | | ORP <u>167</u> | | | purge stop time <u>0733</u> | | ORP <u>142</u> | | |
| Well ID <u>DW-4</u> | | | | | Well ID <u>DW-2</u> | | | | |
| Purge start time <u>0751</u> | | Odor Y <input checked="" type="checkbox"/> N | | | Purge start time <u>0807</u> | | Odor Y <input checked="" type="checkbox"/> N | | |
| <u>Bail</u> | Temp C | pH | cond | gallons | <u>Bail</u> | Temp C | pH | cond | gallons |
| time <u>0751</u> | <u>15.7</u> | <u>7.18</u> | <u>2.72m</u> | <u>2</u> | time <u>0807</u> | <u>18.0</u> | <u>7.53</u> | <u>1376</u> | <u>2</u> |
| time <u>0800</u> | <u>16.9</u> | <u>7.06</u> | <u>2.83m</u> | <u>2</u> | time <u>0812</u> | <u>19.4</u> | <u>7.61</u> | <u>1299</u> | <u>2.25</u> |
| time <u>0805</u> | <u>LOW @</u> | | <u>4 gal</u> | | time <u>0817</u> | <u>LOW @</u> | | <u>4.5</u> | |
| time <u>0833</u> | <u>16.5</u> | <u>7.18</u> | <u>2.91m</u> | <u>4.0</u> | time <u>0850</u> | <u>18.2</u> | <u>7.65</u> | <u>1157</u> | <u>4.5</u> |
| purge stop time <u>0805</u> | | ORP <u>113</u> | | | purge stop time <u>0817</u> | | ORP <u>88</u> | | |
| Well ID <u>DW-1</u> | | | | | Well ID <u>DW-7</u> | | | | |
| Purge start time <u>0819</u> | | Odor Y <input type="checkbox"/> N | | | Purge start time <u>0940</u> | | Odor Y <input checked="" type="checkbox"/> N | | |
| <u>Bail</u> | Temp C | pH | cond | gallons | <u>Bail</u> | Temp C | pH | cond | gallons |
| time <u>0819</u> | <u>16.5</u> | <u>7.78</u> | <u>3.59m</u> | <u>2</u> | time 0940 | <u>16.5</u> | <u>6.96</u> | <u>3.16m</u> | <u>2</u> |
| time <u>0824</u> | <u>16.6</u> | <u>7.98</u> | <u>3.61m</u> | <u>2.0</u> | time <u>0946</u> | <u>18.1</u> | <u>6.93</u> | <u>3.12m</u> | <u>2</u> |
| time <u>0829</u> | <u>LOW @</u> | | <u>4.25</u> | | time <u>0952</u> | <u>17.9</u> | <u>7.02</u> | <u>3.16m</u> | <u>3.75</u> |
| time <u>0901</u> | <u>16.3</u> | <u>7.74</u> | <u>3.48m</u> | <u>4.25</u> | time | | | | |
| purge stop time <u>0829</u> | | ORP <u>69</u> | | | purge stop time <u>0952</u> | | ORP <u>102</u> | | |
| Well ID <u>DW-4</u> | | | | | Well ID | | | | |
| Purge start time <u>0958</u> | | Odor Y <input checked="" type="checkbox"/> N | | | Purge start time | | Odor Y <input type="checkbox"/> N | | |
| <u>Bail</u> | Temp C | pH | cond | gallons | | Temp C | pH | cond | gallons |
| time <u>0958</u> | <u>17.7</u> | <u>6.98</u> | <u>3.29m</u> | <u>2</u> | time | | | | |
| time <u>1009</u> | <u>18.4</u> | <u>7.04</u> | <u>3.27m</u> | <u>2</u> | time | | | | |
| time <u>1012</u> | <u>18.3</u> | <u>7.05</u> | <u>3.16m</u> | <u>4</u> | time | | | | |
| time | | | | | time | | | | |
| purge stop time <u>1012</u> | | ORP <u>101</u> | | | purge stop time | | ORP | | |

VZ

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 typically 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 according to the 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, nonconformances, 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 : 01/05/12

Job: Bay Counties

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 : | STR12010508-01A | TPH-E (DRO), Silica Gel | 390 | 50 µg/L | 01/10/12 | 01/10/12 |
| Date Sampled | 01/04/12 09:01 | Methyl tert-butyl ether (MTBE) | ND | 0.50 µg/L | 01/10/12 | 01/10/12 |
| | | Benzene | ND | 0.50 µg/L | 01/10/12 | 01/10/12 |
| | | Toluene | ND | 0.50 µg/L | 01/10/12 | 01/10/12 |
| | | Ethylbenzene | ND | 0.50 µg/L | 01/10/12 | 01/10/12 |
| | | m,p-Xylene | ND | 0.50 µg/L | 01/10/12 | 01/10/12 |
| | | o-Xylene | ND | 0.50 µg/L | 01/10/12 | 01/10/12 |
| | | Naphthalene | ND | 2.0 µg/L | 01/10/12 | 01/10/12 |
| Client ID : | DW-2 | | | | | |
| Lab ID : | STR12010508-02A | TPH-E (DRO), Silica Gel | 1,600 | 50 µg/L | 01/10/12 | 01/10/12 |
| Date Sampled | 01/04/12 08:50 | Methyl tert-butyl ether (MTBE) | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | Benzene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | Toluene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | Ethylbenzene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | m,p-Xylene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | o-Xylene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | Naphthalene | ND | 2.0 µg/L | 01/06/12 | 01/06/12 |
| Client ID : | DW-3 | | | | | |
| Lab ID : | STR12010508-03A | TPH-E (DRO), Silica Gel | 9,000 | 50 µg/L | 01/10/12 | 01/10/12 |
| Date Sampled | 01/04/12 07:33 | Methyl tert-butyl ether (MTBE) | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | Benzene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | Toluene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | Ethylbenzene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | m,p-Xylene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | o-Xylene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | Naphthalene | ND | 2.0 µg/L | 01/06/12 | 01/06/12 |
| Client ID : | DW-4 | | | | | |
| Lab ID : | STR12010508-04A | TPH-E (DRO), Silica Gel | 88 | 50 µg/L | 01/10/12 | 01/10/12 |
| Date Sampled | 01/04/12 08:33 | Methyl tert-butyl ether (MTBE) | 0.80 | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | Benzene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | Toluene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | Ethylbenzene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | m,p-Xylene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | o-Xylene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 |
| | | Naphthalene | ND | 2.0 µg/L | 01/06/12 | 01/06/12 |



Alpha Analytical, Inc.

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

| | | | | | | | |
|-------------------------|-----------------|--------------------------------|-----|-----------|----------|----------|--|
| Client ID : DW-5 | | | | | | | |
| Lab ID : | STR12010508-05A | TPH-F (DRO), Silica Gel | 380 | 50 µg/L | 01/10/12 | 01/10/12 | |
| Date Sampled | 01/04/12 07:03 | Methyl tert-butyl ether (MTBE) | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | Benzene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | Toluene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | Ethylbenzene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | m,p-Xylene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | o-Xylene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | Naphthalene | ND | 4.0 µg/L | 01/06/12 | 01/06/12 | |
| Client ID : DW-6 | | | | | | | |
| Lab ID : | STR12010508-06A | TPH-E (DRO), Silica Gel | ND | 50 µg/L | 01/10/12 | 01/10/12 | |
| Date Sampled | 01/04/12 10:12 | Methyl tert-butyl ether (MTBE) | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | Benzene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | Toluene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | Ethylbenzene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | m,p-Xylene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | o-Xylene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | Naphthalene | ND | 2.0 µg/L | 01/06/12 | 01/06/12 | |
| Client ID : DW-7 | | | | | | | |
| Lab ID : | STR12010508-07A | TPH-E (DRO), Silica Gel | ND | 50 µg/L | 01/10/12 | 01/11/12 | |
| Date Sampled | 01/04/12 09:52 | Methyl tert-butyl ether (MTBE) | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | Benzene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | Toluene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | Ethylbenzene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | m,p-Xylene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | o-Xylene | ND | 0.50 µg/L | 01/06/12 | 01/06/12 | |
| | | Naphthalene | ND | 4.0 µg/L | 01/06/12 | 01/06/12 | |

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 in 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.

1/12/12

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: STR12010508

Job: Bay Counties

| Alpha's Sample ID | Client's Sample ID | Matrix | pH |
|-------------------|--------------------|---------|----|
| 12010508-01A | DW-1 | Aqueous | 2 |
| 12010508-02A | DW-2 | Aqueous | 2 |
| 12010508-03A | DW-3 | Aqueous | 2 |
| 12010508-04A | DW-4 | Aqueous | 5 |
| 12010508-05A | DW-5 | Aqueous | 2 |
| 12010508-06A | DW-6 | Aqueous | 2 |
| 12010508-07A | DW-7 | Aqueous | 2 |

1/12/12
Report Date

Page 1 of 1



Alpha Analytical, Inc.

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

Date:
12-Jan-12

QC Summary Report

Work Order:
12010508

Method Blank

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

File ID: **2A01101233.D**

Batch ID: **27994SG**

Analysis Date: **01/11/2012 10:37**

Sample ID: **MBLK-27994**

Units: **µg/L**

Run ID: **FID_2_120110B**

Prep Date: **01/10/2012 13:55**

| 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 | 177 | | 150 | | 118 | 49 | 145 | | | |

Laboratory Control Spike

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

File ID: **2A01101234.D**

Batch ID: **27994SG**

Analysis Date: **01/11/2012 11:01**

Sample ID: **LCS-27994**

Units: **µg/L**

Run ID: **FID_2_120110B**

Prep Date: **01/10/2012 13:55**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO), Silica Gel | 2520 | 50 | 2500 | | 101 | 70 | 130 | | | |
| Surr: Nonane, Silica Gel | 172 | | 150 | | 115 | 49 | 145 | | | |

Sample Matrix Spike

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

File ID: **2A01101242.D**

Batch ID: **27994SG**

Analysis Date: **01/11/2012 14:21**

Sample ID: **12011040-07AMS**

Units: **µg/L**

Run ID: **FID_2_120110B**

Prep Date: **01/10/2012 13:55**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO), Silica Gel | 2860 | 50 | 2500 | 0 | 114 | 53 | 150 | | | |
| Surr: Nonane, Silica Gel | 159 | | 150 | | 106 | 49 | 145 | | | |

Sample Matrix Spike Duplicate

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

File ID: **2A01101243.D**

Batch ID: **27994SG**

Analysis Date: **01/11/2012 14:46**

Sample ID: **12011040-07AMSD**

Units: **µg/L**

Run ID: **FID_2_120110B**

Prep Date: **01/10/2012 13:55**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO), Silica Gel | 2540 | 50 | 2500 | 0 | 102 | 53 | 150 | 2861 | 11.8(47) | |
| Surr: Nonane, Silica Gel | 179 | | 150 | | 119 | 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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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
12-Jan-12

QC Summary Report

Work Order:
12010508

Method Blank

Type: MBLK Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\120106\12010604.D

Batch ID: MS10W0106A

Analysis Date: 01/06/2012 12:02

Sample ID: MBLK MS10W0106A

Units: µg/L

Run ID: MSD_10_120106A

Prep Date: 01/06/2012 12:02

| 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 | 10.3 | | 10 | | 103 | 70 | 130 | | | |
| Surr: Toluene-d8 | 11.1 | | 10 | | 111 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 9.98 | | 10 | | 99.8 | 70 | 130 | | | |

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\120106\12010602.D

Batch ID: MS10W0106A

Analysis Date: 01/06/2012 11:18

Sample ID: LCS MS10W0106A

Units: µg/L

Run ID: MSD_10_120106A

Prep Date: 01/06/2012 11:18

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Methyl tert-butyl ether (MTBE) | 10.5 | 0.5 | 10 | | 105 | 65 | 140 | | | |
| Benzene | 10.1 | 0.5 | 10 | | 101 | 70 | 130 | | | |
| Toluene | 10.2 | 0.5 | 10 | | 102 | 80 | 120 | | | |
| Ethylbenzene | 9.13 | 0.5 | 10 | | 91 | 80 | 120 | | | |
| m,p-Xylene | 9.28 | 0.5 | 10 | | 93 | 70 | 130 | | | |
| o-Xylene | 9.26 | 0.5 | 10 | | 93 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 11.5 | | 10 | | 115 | 70 | 130 | | | |
| Surr: Toluene-d8 | 11.6 | | 10 | | 116 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10.2 | | 10 | | 102 | 70 | 130 | | | |

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\120106\12010608.D

Batch ID: MS10W0106A

Analysis Date: 01/06/2012 13:48

Sample ID: 12010508-01AMS

Units: µg/L

Run ID: MSD_10_120106A

Prep Date: 01/06/2012 13:48

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Methyl tert-butyl ether (MTBE) | 50.9 | 1.3 | 50 | 0 | 102 | 47 | 150 | | | |
| Benzene | 46.8 | 1.3 | 50 | 0 | 94 | 59 | 138 | | | |
| Toluene | 47.7 | 1.3 | 50 | 0 | 95 | 68 | 130 | | | |
| Ethylbenzene | 41.2 | 1.3 | 50 | 0 | 82 | 68 | 130 | | | |
| m,p-Xylene | 41.3 | 1.3 | 50 | 0 | 83 | 68 | 131 | | | |
| o-Xylene | 40.8 | 1.3 | 50 | 0 | 82 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 59 | | 50 | | 118 | 70 | 130 | | | |
| Surr: Toluene-d8 | 57.8 | | 50 | | 116 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 54.5 | | 50 | | 109 | 70 | 130 | | | |

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\120106\12010609.D

Batch ID: MS10W0106A

Analysis Date: 01/06/2012 14:10

Sample ID: 12010508-01AMSD

Units: µg/L

Run ID: MSD_10_120106A

Prep Date: 01/06/2012 14:10

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Methyl tert-butyl ether (MTBE) | 56.2 | 1.3 | 50 | 0 | 112 | 47 | 150 | 50.9 | 10.0(40) | |
| Benzene | 52.3 | 1.3 | 50 | 0 | 105 | 59 | 138 | 46.81 | 11.0(21) | |
| Toluene | 53.4 | 1.3 | 50 | 0 | 107 | 68 | 130 | 47.73 | 11.1(20) | |
| Ethylbenzene | 46.5 | 1.3 | 50 | 0 | 93 | 68 | 130 | 41.2 | 12.1(20) | |
| m,p-Xylene | 46.4 | 1.3 | 50 | 0 | 93 | 68 | 131 | 41.27 | 11.7(20) | |
| o-Xylene | 46.5 | 1.3 | 50 | 0 | 93 | 70 | 130 | 40.84 | 13.0(20) | |
| Surr: 1,2-Dichloroethane-d4 | 57.4 | | 50 | | 115 | 70 | 130 | | | |
| Surr: Toluene-d8 | 58.3 | | 50 | | 117 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 53.5 | | 50 | | 107 | 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:
12-Jan-12

QC Summary Report

Work Order:
12010508

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

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

CA

WorkOrder : STR12010508

Report Due By : 5:00 PM On : 12-Jan-12

Client:

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

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

EDD Required : Yes

Sampled by : Vince Z.

PO :

Client's COC # : 57561

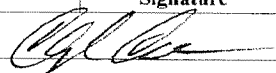
Job : Bay Counties

| Cooler Temp | Samples Received | Date Printed |
|-------------|------------------|--------------|
| 4 °C | 05-Jan-12 | 05-Jan-12 |

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

| Alpha Sample ID | Client Sample ID | Collection Matrix | Collection Date | No. of Bottles | | | Requested Tests | | | | Sample Remarks | | | |
|-----------------|------------------|-------------------|-------------------|----------------|-----|-----|-----------------|-------------------|--|--|----------------|--|--|--|
| | | | | Alpha | Sub | TAT | TPH/E_SG_W | VOC_W | | | | | | |
| STR12010508-01A | DW-1 | AQ | 01/04/12 09:01 | 8 | 0 | 5 | Silica Gel (C) | BTXE/M/NA PH_C | | | | | | |
| STR12010508-02A | DW-2 | AQ | 01/04/12 08:50 | 8 | 0 | 5 | Silica Gel (C) | BTXE/M/NA PH_C | | | | | | |
| STR12010508-03A | DW-3 | AQ | 01/04/12 07:33 | 8 | 0 | 5 | Silica Gel (C) | BTXE/M/NA PH_C | | | | | | |
| STR12010508-04A | DW-4 | AQ | 01/04/12 08:33 | 8 | 0 | 5 | Silica Gel (C) | BTXE/M/NA PH_C | | | | | | |
| STR12010508-05A | DW-5 | AQ | 01/04/12 07:03 | 8 | 0 | 5 | Silica Gel (C) | BTXE/M/NA PH_C | | | | | | |
| STR12010508-06A | DW-6 | AQ | 01/04/12 10:12 | 8 | 0 | 5 | Silica Gel (C) | BTXE/M/NA PH_C | | | | | | |
| STR12010508-07A | DW-7 | AQ | 01/04/12 09:52 | 8 | 0 | 5 | Silica Gel (C) | BTXE/M/NA PH_C | | | | | | |

Comments: Security seals intact. Frozen Ice. :


| Signature | Print Name | Company | Date/Time |
|---|---------------|------------------------|--------------|
|  | Cheryl Gamble | Alpha Analytical, Inc. | 1/5/12 14:10 |

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:

Company Name Stratus Env.
 Attn: Kasey
 Address 3330 Cameron Park Dr #550
 City, State, Zip Cameron Park CA
 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? **57561**
 AZ ___ CA NV ___ WA ___ DOD Site ___
 ID ___ OR ___ OTHER ___ Page # 1 of 1

| Time Sampled | | Date Sampled | Matrix See Key Below | P.O. # | Lab ID Number | Office (Use Only) | Sample Description | TAT | Field Filtered | # Containers** | Analyses Required | | | | | Data Validation Level: III or IV | | | |
|--------------|------|--------------|----------------------|--------|---------------|-------------------|--------------------|-----|----------------|----------------|-------------------|--------|-------|--------------|----------|----------------------------------|--------------------------------|-------------|---|
| | | | | | | | | | | | | Diesel | 8015M | w/Silica Gel | Clean up | BTEX | MTBE | Naphthalene | EDD / EDF? YES <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/> |
| | | | | | | | | | | | | | | | | | Global ID # <u>70600113164</u> | | |
| REMARKS | | | | | | | | | | | | | | | | | | | |
| 0901 | 0104 | AQ | STR12010508-01A | DW-1 | | | | Std | | 8v | | X | X | X | X | X | | | |
| 0850 | | | | -02A | | | | | | | | | | | | | | | |
| 0733 | | | | -03A | | | | | | | | | | | | | | | |
| 0833 | | | | -04A | | | | | | | | | | | | | | | |
| 0703 | | | | -05A | | | | | | | | | | | | | | | |
| 1012 | | | | -06A | | | | | | | | | | | | | | | |
| 0952 | | | | -07A | | | | | | | | X | X | X | X | X | | | |

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: Vince Galatona

| | | | |
|---|---|------------------------|----------------------|
| Relinquished by: (Signature/Affiliation) <u>Vince Galatona</u> | Received by: (Signature/Affiliation) <u>[Signature]</u> | Date: <u>1-4-12</u> | Time: <u>1500</u> |
| Relinquished by: (Signature/Affiliation) | Received by: (Signature/Affiliation) <u>[Signature]</u> Alpha | Date: <u>1/5/12</u> | Time: <u>1305</u> |
| 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.

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!**

| | |
|------------------------------------|------------------------------------|
| <u>Submittal Type:</u> | GEO_WELL |
| <u>Submittal Title:</u> | GeoWell 1-4-12 |
| <u>Facility Global ID:</u> | T0600113164 |
| <u>Facility Name:</u> | BAY COUNTIES PETROLEUM |
| <u>File Name:</u> | GEO_WELL.zip |
| <u>Organization Name:</u> | Stratus Environmental, Inc. |
| <u>Username:</u> | STRATUS NOCAL |
| <u>IP Address:</u> | 12.186.106.98 |
| <u>Submittal Date/Time:</u> | 1/18/2012 9:42:27 AM |
| <u>Confirmation Number:</u> | 6229399919 |

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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!

| | |
|------------------------------------|-------------------------------------|
| <u>Submittal Type:</u> | EDF - Monitoring Report - Quarterly |
| <u>Submittal Title:</u> | Analytical 1-4-11 |
| <u>Facility Global ID:</u> | T0600113164 |
| <u>Facility Name:</u> | BAY COUNTIES PETROLEUM |
| <u>File Name:</u> | 12010508_EDF.zip |
| <u>Organization Name:</u> | Stratus Environmental, Inc. |
| <u>Username:</u> | STRATUS NOCAL |
| <u>IP Address:</u> | 12.186.106.98 |
| <u>Submittal Date/Time:</u> | 1/18/2012 9:38:40 AM |
| <u>Confirmation Number:</u> | 4294736504 |

[VIEW QC REPORT](#)

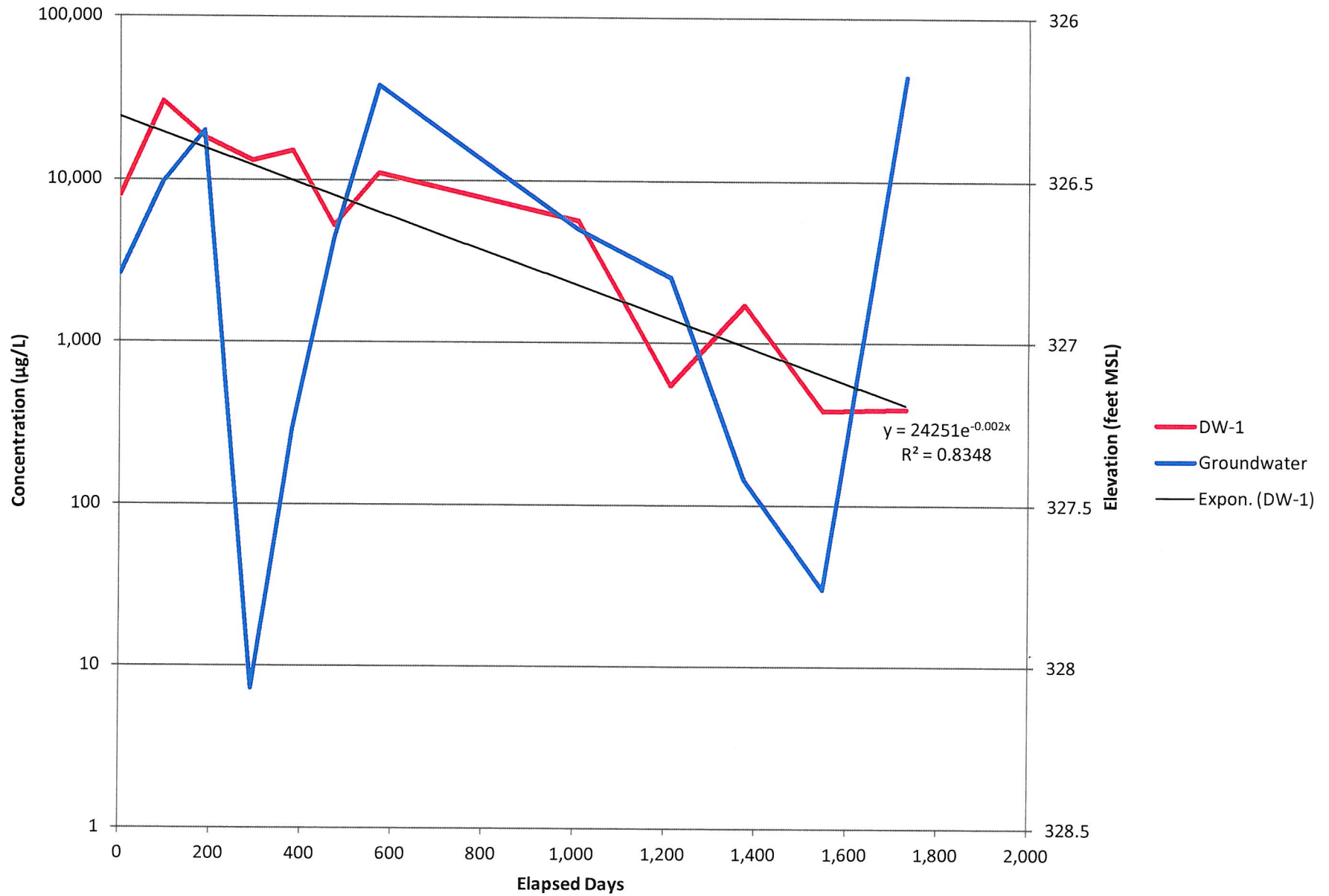
[VIEW DETECTIONS REPORT](#)

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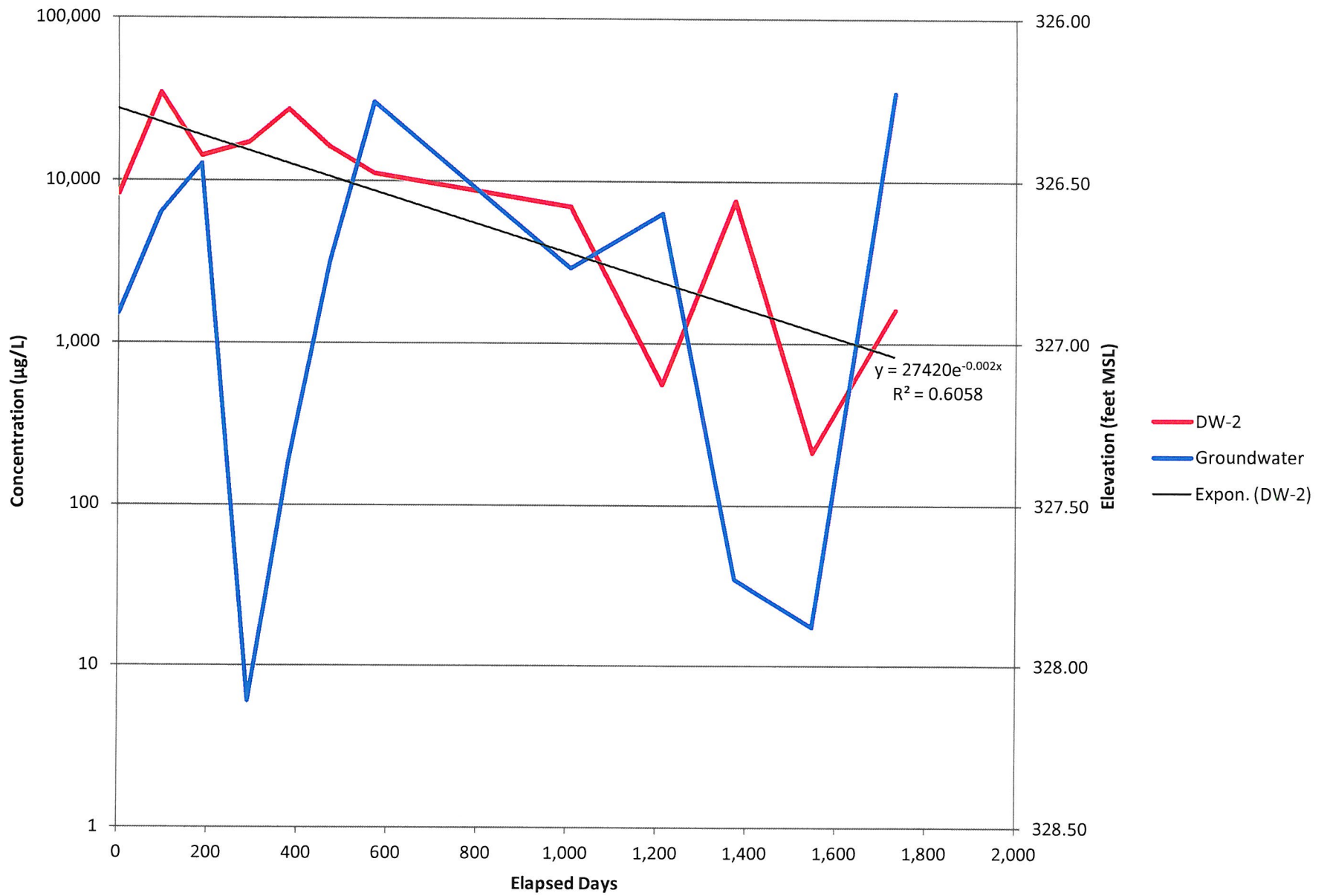
APPENDIX E

GRAPHS OF DRO CONCENTRATIONS VS. ELAPSED TIME

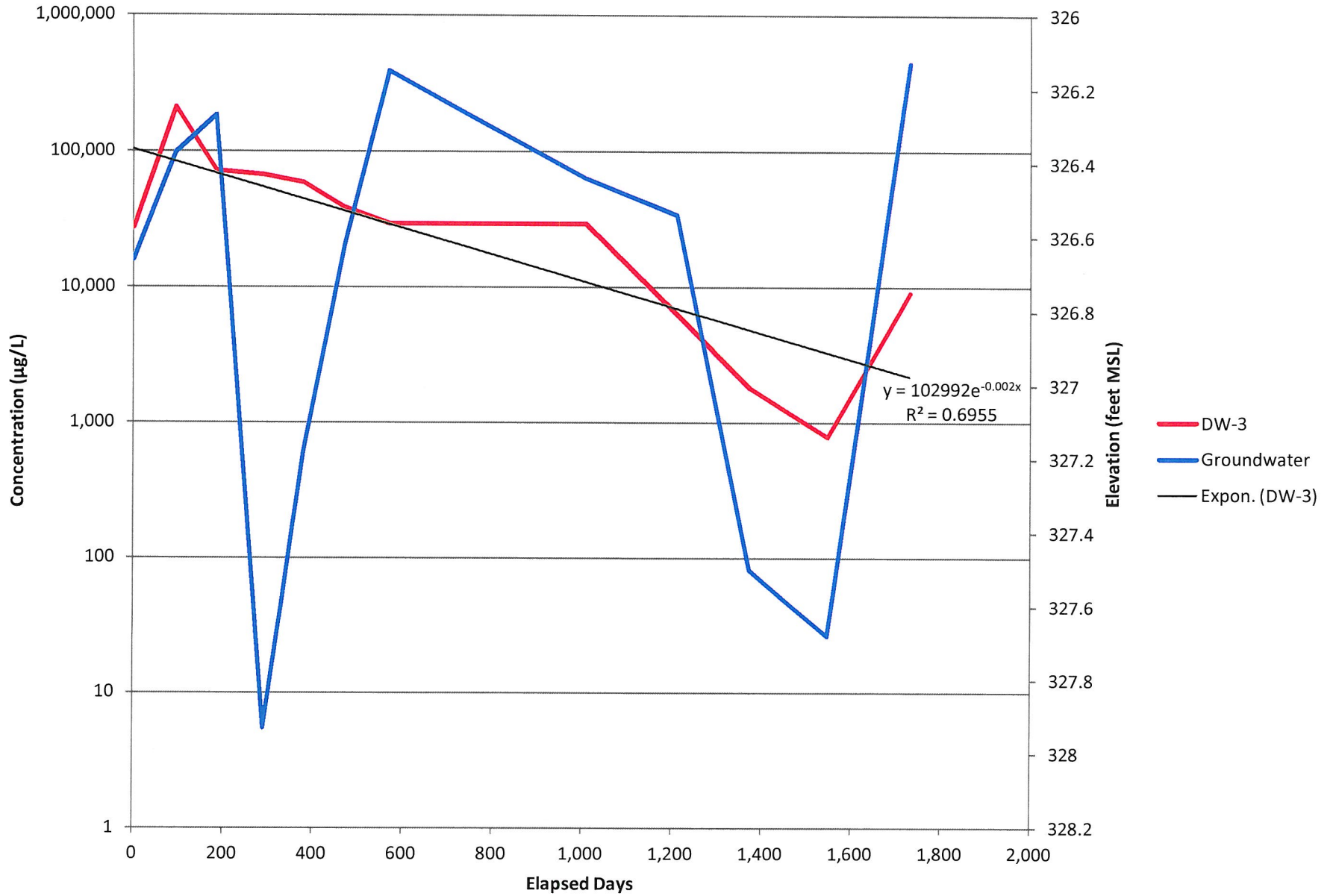
Well DW-1 - DRO Concentration vs. Elapsed Days



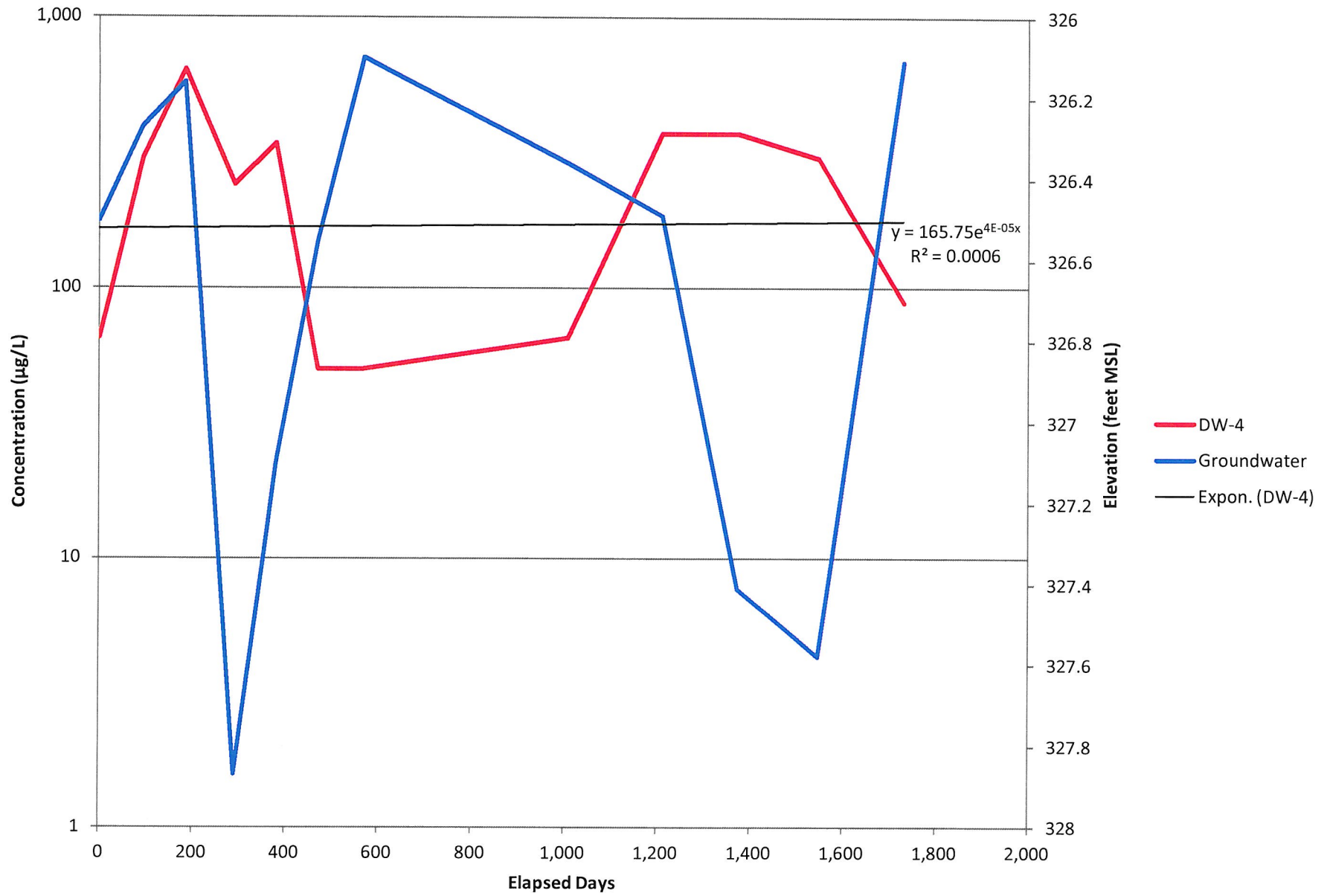
Well DW-2 - DRO Concentration vs. Elapsed Days



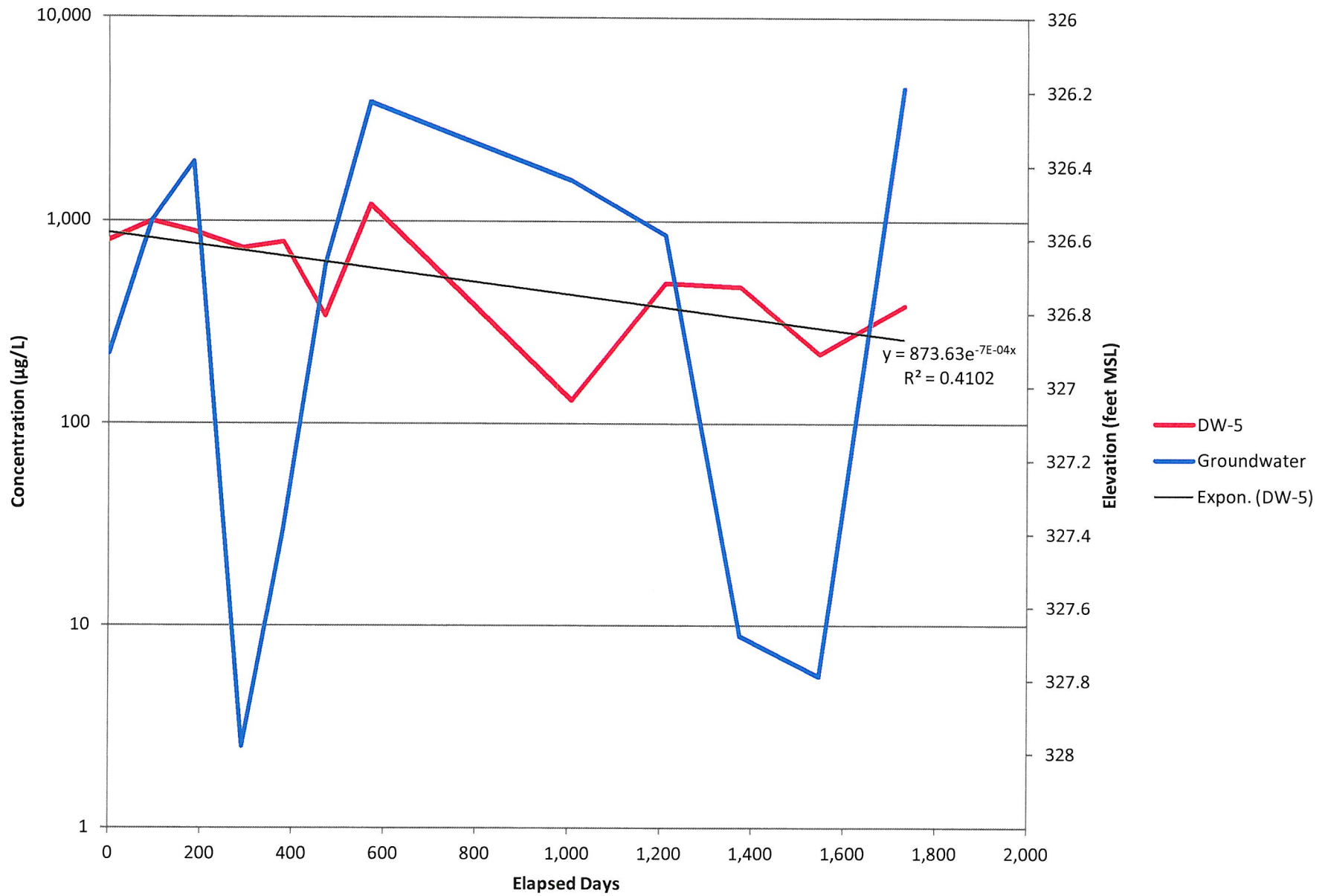
Well DW-3 - DRO Concentration vs. Elapsed Days



Well DW-4 - DRO Concentration vs. Elapsed Days



Well DW-5 - DRO Concentration vs. Elapsed Days



2/15/12

Bay Counties

Well DW-1

$$y = 24251 e^{-0.002x}$$
$$\ln(y) = \ln(24251) + \ln(e^{-0.002x})$$
$$= 10.10 - 0.002x$$

for assumed action level of 100 $\mu\text{g/L}$

$$\ln(100) = 10.10 - 0.002x$$

$$\frac{4.61 - 10.10}{-0.002} = x \approx 2745 \text{ total days}$$

As of last sampling event (1/4/12), a total of 1,730 days had elapsed since start of sampling. Total days remaining to reach 100 $\mu\text{g/L}$:

$$2745 - 1730 = 963 \text{ days (from 1/4/12)}$$

or $(\div 365) \approx 2.6$ years
(≈ 2014)

Well DW-2

$$y = 27420 e^{-0.002x}$$
$$\ln(y) = \ln(27420) + \ln(e^{-0.002x})$$
$$= \ln(27420) - 0.002x$$

assumed action level = 100 $\mu\text{g/L}$

$$\ln(100) = \ln(27420) - 0.002x$$

$$\frac{\ln(100) - \ln(27420)}{-0.002} = x \approx 2807 \text{ total days}$$

As of last sampling event (1/4/12), a total of 1,730 days has elapsed since start of sampling. Total days remaining to reach 100 $\mu\text{g/L}$:

$$2807 - 1730 = 1077 \text{ days (from 1/4/12)}$$
$$\text{or } (\div 365) \approx 3.0 \text{ years}$$
$$(\approx 2015)$$

DW-3

$$y = 102992 e^{-0.002x}$$
$$\ln(y) = \ln(102992) + \ln(e^{-0.002x})$$
$$= \ln(102992) - 0.002x$$

assumed action level = 100 $\mu\text{g/L}$

$$\ln(100) = \ln(102992) - 0.002x$$

$$\frac{\ln(100) - \ln(102992)}{-0.002} = x = 3469 \text{ days}$$

As of last sampling event (1/4/12), a total of 1730 days has elapsed since start of sampling. Total days remaining to reach 100 $\mu\text{g/L}$:

$$3469 - 1730 = 1739 \text{ days (from 1/4/12)}$$
$$(\div 365) \approx 4.8 \text{ years}$$
$$(\approx 2017)$$

DW-4

- trend line indicates concentration trend is increasing

DW-5

$$y = 873.63 e^{-0.0007x}$$

$$\begin{aligned} \ln(y) &= \ln(873.63) + \ln(e^{-0.0007x}) \\ &= \ln(873.65) - 0.0007x \end{aligned}$$

assumed action level of 100 $\mu\text{g/L}$

$$\ln(100) = \ln(873.65) - 0.0007x$$

$$\frac{\ln(100) - \ln(873.65)}{-0.0007} = x = 3096 \text{ days}$$

As of last sampling event (1/4/12), a total of 1730 days has elapsed since the start of sampling. Total days remaining to reach 100 $\mu\text{g/L}$:

$$\begin{aligned} 3096 - 1730 &= 1366 \text{ (from 1/4/12)} \\ & \approx 3.8 \text{ years} \\ & \approx 2016 \end{aligned}$$

J. Carter PG
2/15/12