Groundwater Monitoring Report
January 1 through March 31, 2009
Former Hot Mix Asphalt Plant Area (AOC #1)
Hanson Aggregates Radum Facility
3000 Busch Road, Pleasanton, California
(ACEH Case #RO0002941 and
Geotracker Global ID #SLT19719376)

May 11, 2009
001-09567-07

Prepared for:
Lehigh Hanson West Region
12667 Alcosta Boulevard, Suite 400
San Ramon, California 94583

Prepared by
LFR Inc.
1900 Powell Street, 12th Floor
Emeryville, California 94608

Hanson
HEIDELBERGCEMENT Group
Hanson Aggregates West Region
12667 Alcosta Blvd., Suite 400
San Ramon, CA 94583

May 11, 2009

Mr. Jerry Wickham
Alameda County Health Care Services
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: **Groundwater Monitoring Report, January 1 through March 31, 2009, Former Hot Mix Asphalt Plant Area (AOC #1), Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California (ACEH Case #RO0002941 and Geotracker Global ID # SLT19719376)**

Dear Mr. Wickham:

The enclosed Groundwater Monitoring Report was prepared by LFR Inc. (LFR) on behalf of Lehigh Hanson West Region for the former hot mix asphalt plant area (located within Area of Concern [AOC] #1) of the Hanson Aggregates Radum Facility, located at 3000 Busch Road, Pleasanton, California ("the Site"). This report presents and discusses the results of the fourth of four planned quarterly groundwater monitoring events conducted at the Site.

This event and the previous three quarterly groundwater monitoring events were conducted in accordance with the February 28, 2008 work plan approved by Alameda County Environmental Health in its technical comment letter dated March 31, 2008. Results from the groundwater monitoring confirm that groundwater beneath the Site has not been affected by total petroleum hydrocarbons previously detected in soil in limited areas of the Site. Based on the results of quarterly groundwater monitoring, and in accordance with the work plan, LFR recommends that groundwater monitoring be discontinued and that the 10 groundwater monitoring wells be properly abandoned.

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

If you have any questions or comments concerning this report, please call me at (925) 244-6584 or Ron Goloubow of LFR at (510) 652-4500.

Sincerely,

Lee W. Cover
Environmental Manager
Hanson Aggregates Northern California

Attachment

CONTENTS

FIGURES

APPENDICES

CERTIFICATIONS

LFR Inc. has prepared this Groundwater Monitoring Report on behalf of Lehigh Hanson West Region in a manner consistent with the level of care and skill ordinarily exercised by professional geologists and environmental scientists. This report was prepared under the technical direction of the undersigned California Professional Geologist.

May 11, 2009

Katrin Schliewen, P.G. Date
Senior Hydrogeologist
California Professional Geologist (7808)

May 11, 2009

Ron Goloubow Date
Senior Associate Geologist

EXECUTIVE SUMMARY

This Groundwater Monitoring Report for the period January 1 through March 31, 2009 ("the reporting period") presents the results of the fourth quarterly groundwater monitoring event conducted by LFR Inc. (LFR) in the former hot mix asphalt plant area of the Hanson Aggregates Radum Facility located in Pleasanton, California ("the Site").

The groundwater monitoring event that was completed during this reporting period represents the fourth of four required periodic groundwater monitoring events for the Site. The first, second, and third groundwater monitoring events were conducted during June 2008, September 2008, and January 2009, respectively. The fourth groundwater monitoring event consisted of measuring depth to groundwater and purging and sampling wells MW-1 through MW-10 and was conducted on March 16 and 17, 2009. Well MW-4 could not be sampled due to an insufficient amount of water in the well.

Equipotential contours drawn based on groundwater elevations indicate that the local groundwater flow direction is toward the northwest, with a horizontal groundwater gradient of approximately 0.018 foot per foot. Analytical results indicate that none of the analyzed constituents were detected above laboratory reporting limits in any of the groundwater samples collected during this groundwater monitoring event. The analytical results from the current sampling event are consistent with results from previous groundwater monitoring events.

Based on the results of the four quarterly groundwater monitoring events conducted at the Site, and in accordance with the February 28, 2008 work plan approved by Alameda County Environmental Health, LFR recommends that periodic groundwater monitoring be discontinued and that the 10 groundwater monitoring wells be properly abandoned.

1.0 INTRODUCTION

This Groundwater Monitoring Report presents the results of groundwater monitoring activities conducted for the period from January 1 through March 31, 2009 ("the reporting period") by LFR Inc. (LFR) on behalf of Lehigh Hanson West Region ("Hanson") in the former hot mix asphalt plant area of the Hanson Aggregates Radum Facility located at 3000 Busch Road, Pleasanton, California ("the Site"; Figures 1 and 2). The Site is located within Area of Concern #1 (AOC #1). Quarterly groundwater monitoring was conducted in the 10 groundwater monitoring wells installed at the Site during 2007 and 2008 (wells MW-1 through MW-10) to monitor groundwater quality and groundwater flow direction and gradient for approximately one year.

Quarterly groundwater monitoring was initiated at AOC #1 in accordance with the scope of work described in the "Work Plan for Additional Well Installations and Quarterly Groundwater Monitoring and Reporting in the Former Hot Mix Asphalt Plant Area (AOC #1) of the Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California, SLIC Case #RO0002941 and Geotracker ID SLT19719376" ("the Work Plan"), which was submitted to Alameda County Environmental Health (ACEH) on February 28, 2008. ACEH approved the Work Plan on March 31, 2008. In its approval letter, ACEH requested that sampling for dissolved metals be conducted during the second quarterly groundwater monitoring event instead of the first as proposed in the Work Plan, to allow additional time to pass between installing the last three groundwater monitoring wells and sampling for dissolved metals.

With this reporting period, LFR has completed the four planned approximately quarterly groundwater monitoring events on behalf of Hanson, which were conducted during June and September 2008, and January and March 2009. The March 2009 groundwater monitoring event that was completed during this reporting period represents the fourth of the four required quarterly events for the Site. Results from this event and the three previous reporting periods are presented in this report. Based on the analytical results for samples collected during the four groundwater monitoring events, no additional quarterly groundwater monitoring events are planned for the Site.

2.0 METHODOLOGY

2.1 Quarterly Groundwater Monitoring

This quarterly groundwater monitoring event was conducted on March 16 and 17, 2009, and consisted of measuring depth to groundwater and of purging and sampling groundwater monitoring wells MW-1 through MW-10 (Table 1 and Figure 3). The methodology of the groundwater monitoring event is described in this section, and results are presented and discussed in Section 3.0.

2.1.1 Groundwater Elevation Monitoring

Groundwater elevation monitoring was conducted at AOC #1 on March 16, 2009. The depth to groundwater was measured prior to purging and sampling, using a Solinst water level indicator, and relative to the top of casing (TOC). Depth-to-groundwater measurements were recorded on field sheets, copies of which are included in Appendix A. Groundwater elevations were calculated by subtracting the depth-to-groundwater measurement from the TOC elevation (Table 3).

2.1.2 Groundwater Well Purging and Sampling

Wells MW-1 through MW-10 (except for well MW-4) were purged and sampled on March 16 and 17, 2009, using single-use, disposable bailers. Consistent with previous sampling events, well MW-4 did not contain a sufficient amount of groundwater for purging and sampling. The Work Plan proposed that a low-flow purging and sampling technique would be used during the quarterly groundwater monitoring events. While implementing this purging method during the first quarterly monitoring event, it was discovered that the yield for many of the wells is not sufficient to sustain a consistent water level during low-flow sampling; however, the wells could produce three casing volumes. Therefore, three casing volumes of groundwater were purged from each well using disposable bailers before the groundwater sample was collected. This method of purging and sample collection was employed during each of the four quarterly groundwater sampling events.

Depth-to-groundwater and general water-quality parameters were monitored during purging, and the parameters were recorded on field sheets, copies of which are included in Appendix A. The wells were considered sufficiently purged after at least three casing volumes were removed from each well and general water-quality parameters stabilized. Groundwater samples were collected after purging was completed.

Groundwater samples were collected in clean, laboratory-provided sample containers, properly labeled, and stored in an ice-chilled cooler for transport to the analytical laboratory under chain-of-custody protocol. One field duplicate sample was collected from well MW-8. In addition, a field blank was collected and submitted to the laboratory for quality control purposes.

2.1.3 Quarterly Monitoring Laboratory Analyses

Groundwater samples were submitted to TestAmerica Laboratories, Inc., a California-certified analytical laboratory located in Pleasanton, California. All samples were analyzed for the following parameters, and in accordance with the sample matrix presented in Table 2:

- Total petroleum hydrocarbons (TPH) as diesel (TPHd) and TPH as motor oil (TPHmo) by U.S. Environmental Protection Agency (EPA) Method 8015 (after undergoing silica-gel cleanup)
- TPH as gasoline (TPHg) by EPA Method 8260
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260
- Fuel oxygenates by EPA Method 8260
- Lead scavengers by EPA Method 8260
- Semivolatile organic compounds (SVOCs) by EPA Method 8270

3.0 RESULTS

Results from the current reporting period and from previous quarterly groundwater monitoring events are presented in this report. Historical groundwater elevation data are summarized in Table 3, and interpreted groundwater equipotential contours for the reporting period are presented on Figure 4. Historical analytical results are summarized in Table 4, and analytical results for the reporting period are presented on Figure 5. Relevant San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (ESLs) are included in the summary tables, and compounds detected at concentrations that exceeded the ESLs are highlighted in the appropriate summary tables and figures.

3.1 Groundwater Elevations

The groundwater elevation contours indicate that the groundwater flow direction beneath the Site was approximately to the northwest on March 16, 2009, with a horizontal groundwater gradient of approximately 0.018 foot per foot (Figure 4).

Groundwater elevations for this monitoring period are consistent with results from previous groundwater monitoring events. Monitoring well MW-4 has been dry since it was installed and was dry during this monitoring event. Over the four monitoring events, groundwater elevations generally have increased approximately 1 to 2 feet, with the exception of well MW-5 where the groundwater elevation has decreased by approximately 3 feet. Monitoring well MW-5 was installed with a well screen approximately 10 to 15 feet deeper than most of the other wells at the Site because of subsurface conditions encountered during drilling. The groundwater elevation from this well historically has been approximately 20 feet lower than other wells at the Site and therefore has not been used for creating the equipotential contours.

3.2 Groundwater Analytical Results

Analytical results indicate that none of the compounds analyzed for in the groundwater monitoring wells were detected above laboratory reporting limits during this

groundwater monitoring event (Table 4 and Figure 5). These results are consistent with analytical results from previous quarterly groundwater sampling events at the Site. During the quarterly groundwater monitoring events, the primary contaminants of concern (COCs) at the Site (TPHd and TPHmo) have not been detected above laboratory reporting limits in any groundwater samples collected from the existing groundwater monitoring wells. Similarly, TPHg, fuel oxygenates, and lead scavengers have not been detected in any groundwater samples collected from the groundwater monitoring wells.

As shown in Table 4, only sporadic low concentrations of non-COCs have been reported for groundwater samples collected approximately quarterly from groundwater monitoring wells at the Site. Historically, the only TPH-related compound detected above laboratory limits has been toluene detected at low concentrations (estimated below the laboratory reporting limit) in the October 2007 samples collected from wells MW-3 (0.3 microgram per liter [μg/l]) and MW-5 (0.4 μg/l). None of the BTEX compounds have been detected since the estimated toluene concentrations were reported for the two October 2007 samples.

Of the other compounds analyzed in groundwater samples, only one SVOC and two dissolved metals have been detected above laboratory reporting limits. A low concentration of bis(2-thylhexyl)phthalate was detected in the primary sample collected from well MW-2 (9.8 μg/l) in September 2008, but this compound was not detected in the duplicate sample collected from the same well. Low concentrations of barium (below the ESL of 1,000 μg/l for barium) were detected in the September 2008 samples collected from wells MW-3 (160 μg/l), MW-8 (230 μg/l), and MW-9 (150 μg/l), and a concentration of copper (slightly above the ESL of 3.1 μg/l for copper) was detected in the September 2008 sample collected from well MW-9 (5 μg/l).

The analytical results from the reporting period, and from the previous three quarterly groundwater monitoring events, confirm that groundwater beneath the Site has not been affected by the TPH or TPH-related compounds that have been detected in soil in limited areas beneath the Site.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

The primary COCs detected in soil and groundwater during previous investigations are TPHd, and to a lesser extent TPHmo. Other compounds, including TPHg, volatile organic compounds (VOCs), BTEX, SVOCs, and metals, have been detected only sporadically in isolated soil or groundwater samples. Fuel oxygenates, lead scavengers, pesticides, and polychlorinated biphenyls (PCBs) have not been detected in any samples collected. Only concentrations detected above the May 2008 ESLs are considered significant. Based on results from previous investigations, LFR has concluded that

TPH-affected soil is limited in extent both vertically and laterally and that groundwater has not significantly been affected by previous operations conducted at the Site (LFR 2007). The four planned quarterly groundwater monitoring events consisting of measuring depth to groundwater and collecting groundwater samples from 10 existing groundwater monitoring wells installed at the Site have been concluded.

The results from the four completed quarterly groundwater monitoring and sampling events confirm that groundwater beneath the Site has not been significantly affected by TPH or TPH-related compounds detected during previous investigations. Groundwater elevation data indicate that the direction of groundwater flow beneath the Site was consistently to the west-northwest, with a horizontal groundwater gradient ranging from approximately 0.015 to 0.025 foot per foot. The primary COCs (TPHd and TPHmo) have not been detected above laboratory reporting limits in groundwater samples collected from the groundwater monitoring wells during the four quarterly groundwater monitoring events. Similarly, TPHg, fuel oxygenates, and lead scavengers have not been detected in samples collected from groundwater monitoring wells. Other compounds, including toluene, bis(2-ethylhexyl)phthalate, and dissolved barium and copper, have been detected only once in up to three wells (in the case of barium). None of these low detections are considered significant because they were estimated at concentrations below laboratory reporting limits, are below the ESLs, were not detected in duplicate samples, and/or were not detected in subsequent groundwater samples.

4.2 Recommendations

Based on results of the four quarterly groundwater monitoring events completed at the Site, and in accordance with the Work Plan, LFR recommends that quarterly groundwater monitoring and reporting be discontinued and that the 10 groundwater monitoring wells be properly abandoned.

4.3 Future Activities

LFR understands that the Site may in the future undergo a property transfer to Legacy Partners (“Legacy”), similar to the property transfer agreement between Hanson and Legacy that was completed for the majority of the Radum property during 2007. It is assumed that under Legacy the Site eventually would be developed for commercial and light-industrial land use.

In accordance with ongoing discussions between Hanson and ACEH (for subsurface environmental concerns) and the Livermore-Pleasanton Fire Department (LPFD; for remaining surface features and associated materials), certain closure activities will be conducted prior to a potential land transfer to Legacy. Additional subsurface investigations are proposed to be conducted in limited areas of the Site as described in the September 15, 2008 “Work Plan for Additional Site Characterization at Selected Areas Within AOC #1” approved by ACEH on January 29, 2009. Based on the results of this planned and other previously completed subsurface investigations, affected soil

will be excavated from selected areas and confirmation sampling will be conducted. At the request of the LPFD, Hanson will submit a closure plan to describe planned closure activities for surface features, including the former paving oil containment structure and its contents, the former truck scale, and other features planned for removal and/or disposal by Hanson.

5.0 LIMITATIONS

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by LFR and the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, expressed or implied, is intended or given. To the extent that LFR relied upon any information prepared by other parties not under contract to LFR, LFR makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for a particular purpose. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

Results of any investigations or testing and any findings presented in this report apply solely to conditions existing at the time when LFR's investigative work was performed. It must be recognized that any such investigative or testing activities are inherently limited and do not represent a conclusive or complete characterization. Conditions in other parts of the Site may vary from those at the locations where data were collected. LFR's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100 percent confidence in environmental investigation conclusions cannot reasonably be achieved.

LFR, therefore, does not provide any guarantees, certifications, or warranties regarding any conclusions regarding environmental contamination of any such property. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

6.0 REFERENCES

Alameda County Environmental Health (ACEH). 2008. Letter from Jerry Wickham to Lee Cover of Hanson Aggregates West Region, re: SLIC Case RO0002941 and Geotracker Global ID STL19719376, Hanson Aggregates Radum Plant, 3000 Busch Road, Pleasanton, CA 94566. March 31.

———. 2009. Letter from Jerry Wickham to Lee Cover of Lehigh Hanson West Region and Steve Dunn of Legacy Partners, re: SLIC Case RO0002941 and Geotracker Global ID STL19719376, Hanson Aggregates Radum Plant, 3000 Busch Road, Pleasanton, CA 94566. January 29.

LFR Inc. (LFR). 2007. Additional Site Investigation Report for the Former Hot Mix Asphalt Plant Area (AOC #1), ACEH Case #RO0002941 and Geotracker Global ID #SLT19719376, Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, Alameda County, California. December 21.

———. 2008a. Work Plan for Additional Well Installations and Quarterly Groundwater Monitoring and Reporting in the Former Hot Mix Asphalt Plant Area (AOC #1) of the Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California, SLIC Case #RO0002941 and GeoTracker ID SLT19719376. February 28.

———. 2008b. Combined Well Installation and Groundwater Monitoring Report for the Period of April 1 through June 30, 2008, Former Hot Mix Asphalt Plant Area (AOC #1), Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California, ACEH Case #RO0002941 and Geotracker Global ID #SLT19719376. July 23.

———. 2008c. Work Plan for Additional Site Characterization at Selected Areas Within AOC #1, Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California, SLIC Case RO0002952 and Geotracker ID SL0600101555. September 15.

———. 2008d. Groundwater Monitoring Report, July 1 through September 30, 2008, Former Hot Mix Asphalt Plant Area (AOC #1), Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California, ACEH Case #RO0002941 and Geotracker Global ID # SLT19719376. November 10.

———. 2009. Groundwater Monitoring Report, October 1 through December 31, 2008, Former Hot Mix Asphalt Plant Area (AOC #1), Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California, ACEH Case #RO0002941 and Geotracker Global ID # SLT19719376. February 10.

Regional Water Quality Control Board, San Francisco Bay Region. 2008. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater (Interim Final – May 2008); Environmental Screening Levels ("ESLs"). Technical Document. May.

Table 1
Groundwater Monitoring Well Construction Details
Area of Concern # 1 / Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Monitoring Well ID	Installation Date	Boring Hole Diameter (inches)	Casing Diameter (inches)	Approximate Total Well Depth (feet bgs)	Approximate Screened Interval (feet bgs)	Top of Casing Elevation[1] (feet msl)
MW-1	10/3/07	8.0	2.0	60	45 - 60	374.67
MW-2	10/2/07	8.0	2.0	60	45 - 60	376.33
MW-3	10/4/07	8.0	2.0	60	45 - 60	374.95
MW-4	10/5/07	8.0	2.0	48	43 - 48	372.94
MW-5	10/9/07	8.0	2.0	74	69 - 74	374.35
MW-6	10/10/07	8.0	2.0	55	45 - 55	375.03
MW-7	10/1/07	8.0	2.0	65	50 - 65	377.68
MW-8	6/9/08	8.0	2.0	61	51 - 61	378.60
MW-9	6/10/08	8.0	2.0	52	42 - 52	375.75
MW-10	6/11/08	8.0	2.0	54	44 - 54	375.62

Notes:
ID = identification; monitoring well identification number
feet bgs = feet below ground surface
feet msl = feet relative to mean sea level
[1] Top of casing elevation is approximately 3.0 feet above ground surface; top of casing elevation and land survey conducted by Kier & Wright Civil Engineers & Surveyors, Inc.

Table 2
Quarterly Groundwater Monitoring Sample Matrix
Area of Concern #1 / Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Well ID	Date Installed	Approximate Screen Interval Top (feet bgs)	Bottom (feet bgs)	TPHd / TPHmo 8015	TPHg 8260	BTEX 8260	Fuel Ox 8260	Lead Scav 8260	SVOCs 8270	Dissolved Metals 6010B
Groundwater Monitoring Wells										
MW-1	10/3/2007	45	60	x	x	x	x	x	x	-
MW-2	10/2/2007	45	60	x	x	x	x	x	x	-
MW-3	10/4/2007	45	60	x	x	x	x	x	x	once [1]
MW-4	10/5/2007	43	48	x	x	x	x	x	x	-
MW-5	10/9/2007	69	74	x	x	x	x	x	x	-
MW-6	10/10/2007	45	55	x	x	x	x	x	x	-
MW-7	10/1/2007	50	65	x	x	x	x	x	x	-
MW-8	6/9/2008	51	61	x	x	x	x	x	x	once [1]
MW-9	6/10/2008	42	52	x	x	x	x	x	x	once [1]
MW-10	6/11/2008	44	54	x	x	x	x	x	x	-
Quality Assurance and Quality Control Samples [2]										
Field Blank	na	na	na	x	x	x	x	x	x	-
Trip Blank	na	na	na	-	x	x	x	x	-	-

Notes:

feet bgs = feet below ground surface

"x" = to be analyzed quarterly for four consecutive quarters

"-" = not analyzed

na = not applicable

EPA = U.S. Environmental Protection Agency

[1] Samples for dissolved metals were collected only once, during the second groundwater monitoring event conducted on September 16, 2008.

[2] One field blank (FB) sample was collected during each quarterly monitoring event, and one trip blank (TB) sample was collected for every cooler of samples transported to the laboratory during every quarterly monitoring event.

TPHd = total petroleum hydrocarbons as diesel by EPA Method 8015 (with silica-gel cleanup)

TPHmo = total petroleum hydrocarbons as motor oil by EPA Method 8015 (with silica-gel cleanup)

TPHg = total petroleum hydrocarbons as gasoline by EPA Method 8260

BTEX = benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260

Fuel Ox = fuel oxygenates by EPA Method 8260

Lead Scav = lead scavengers by EPA Method 8260

SVOCs = semivolatile organic compounds by EPA Method 8270

Dissolved Metals = CAM 17 list of dissolved metals (laboratory filtered samples) by EPA Method 6010B

Table 3
Groundwater Elevations
Area of Concern # 1 / Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Monitoring Well ID	Top of Casing Elevation[1] (feet msl)	Measurement Date	Depth to Groundwater Measured (feet TOC)	Groundwater Elevation (feet msl)
MW-1	374.67	10/22/07	57.22	317.45
		6/16/08	57.35	317.32
		9/15/08	57.59	317.08
		1/9/09	57.79	316.88
		3/16/09	55.92	318.75
MW-2	376.33	10/22/07	55.24	321.09
		6/16/08	55.39	320.94
		9/15/08	55.73	320.60
		1/9/09	56.05	320.28
		3/16/09	54.56	321.77
MW-3	374.95	10/22/07	54.32	320.63
		6/16/08	54.53	320.42
		9/15/08	54.74	320.21
		1/9/09	55.00	319.95
		3/16/09	53.64	321.31
MW-4	372.94	10/22/07	47.37	325.57
		6/16/08	48.77	324.17
		9/15/08	48.71	324.23
		1/9/09	48.85	DRY
		3/16/09	48.54	DRY
MW-5	374.35	10/22/07	68.40	305.95
		6/16/08	70.16	304.19
		9/15/08	70.16	304.19
		1/9/09	75.04	299.31
		3/16/09	71.36	302.99
MW-6	375.03	10/22/07	49.19	325.84
		6/16/08	49.34	325.69
		9/15/08	49.49	325.54
		1/9/09	49.67	325.36
		3/16/09	48.89	326.14
MW-7	377.68	10/22/07	57.04	320.64
		6/16/08	57.21	320.47
		9/15/08	57.79	319.89
		1/9/09	58.14	319.54
		3/16/09	56.54	321.14
MW-8	378.60	10/22/07	--	NM
		6/16/08	55.73	322.87
		9/15/08	55.99	322.61
		1/9/09	56.22	322.38
		3/16/09	54.61	323.99

Table 3
Groundwater Elevations
Area of Concern # 1 / Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Monitoring Well ID	Top of Casing Elevation[1] (feet msl)	Measurement Date	Depth to Groundwater Measured (feet TOC)	Groundwater Elevation (feet msl)
MW-9	375.75	10/22/07	--	NM
		6/16/08	51.48	324.27
		9/15/08	51.71	324.04
		1/9/09	51.88	323.87
		3/16/09	50.45	325.30
MW-10	375.62	10/22/07	--	NM
		6/16/08	51.38	324.24
		9/15/08	51.58	324.04
		1/9/09	51.64	323.98
		3/16/09	50.35	325.27

Notes:
ID = identification; monitoring well identification number
feet msl = feet relative to mean sea level
feet TOC = feet below top of casing
NM = not measured because well was not installed until June 2008
[1] Top of casing elevation is approximately 3.0 feet above ground surface; top of casing elevation and land survey conducted by Kier & Wright Civil Engineers & Surveyors, Inc.

Table 4
Groundwater Analytical Results
Area of Concern # 1 / Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Monitoring Well ID	Date	Total Petroleum Hydrocarbons TPHd* (ug/l)	TPHmo* (ug/l)	TPHg (ug/l)	BTEX (ug/l)	Fuel Ox (ug/l)	Lead Scav (ug/l)	SVOCs (ug/l)	Dissolved Metals (ug/l)
MW-1	10/22/07	< 50	< 300	< 50	ND	ND	ND	-	-
	6/16/08	< 50	< 300	< 50	ND	ND	ND	ND	-
	9/15/08	< 50	< 300	< 50	ND	ND	ND	ND	-
	1/13/09	< 50	< 300	< 50	ND	ND	ND	ND	-
	3/16/09	< 50	< 300	< 50	ND	ND	ND	ND	-
MW-2	10/22/07	< 50	< 300	< 50	ND	ND	ND	-	-
	6/16/08	< 50	< 300	< 50	ND	ND	ND	ND	-
	9/15/08	< 50 / < 50	< 300 / < 300	< 50 / < 50	ND / ND	ND / ND	ND / ND	**ND [3] / ND**	-
	1/9/09	< 50	< 300	< 50	ND	ND	ND	ND	-
	3/17/09	< 50	< 300	< 50	ND	ND	ND	ND	-
MW-3	10/22/07	< 50 / < 50	< 300 / < 300	< 50 / < 50	**0.3J [1] / 0.3J [1]**	ND/ND	ND / ND	-	-
	6/16/08	< 50	< 300	< 50	ND	ND	ND	ND	-
	9/16/08	< 50	< 300	< 50	ND	ND	ND	ND	**ND [4]**
	1/13/09	< 50	< 300	< 50	ND	ND	ND	ND	-
	3/16/09	< 50	< 300	< 50	ND	ND	ND	ND	-
MW-4	10/22/07	-	-	-	-	-	-	-	-
(dry)	6/16/08	-	-	-	-	-	-	-	-
	9/15/08	-	-	-	-	-	-	-	-
	1/9/09	-	-	-	-	-	-	-	-
	3/17/09	-	-	-	-	-	-	-	-
MW-5	10/22/07	< 50	< 300	< 50	**0.4J [2]**	ND	ND	-	-
	6/16/08	< 50 / < 50	< 300 / < 300	< 50 / < 50	ND / ND	ND / ND	ND / ND	ND / ND	-
	9/15/08	-	-	-	-	-	-	-	-
	1/9/09	< 50	< 300	< 50	ND	ND	ND	ND	-
	3/17/09	< 50	< 300	< 50	ND	ND	ND	ND	-
MW-6	10/22/07	< 50	< 300	< 50	ND	ND	ND	-	-
	6/16/08	< 50	< 300	< 50	ND	ND	ND	ND	-
	9/15/08	< 50	< 300	< 50	ND	ND	ND	ND	-

Table 4
Groundwater Analytical Results
Area of Concern # 1 / Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Monitoring Well ID	Date	Total Petroleum Hydrocarbons TPHd* (ug/l)	TPHmo* (ug/l)	TPHg (ug/l)	BTEX (ug/l)	Fuel Ox (ug/l)	Lead Scav (ug/l)	SVOCs (ug/l)	Dissolved Metals (ug/l)
MW-6	1/13/09	<50/<50	<300/<300	<50/<50	ND / ND	ND / ND	ND / ND	ND / ND	-
	3/17/09	< 50	< 300	< 50	ND	ND	ND	ND	-
MW-7	10/22/07	< 50	< 300	< 50	ND	ND	ND	-	-
	6/16/08	< 50	< 300	< 50	ND	ND	ND	ND	-
	9/16/08	< 50	< 300	< 50	ND	ND	ND	ND	-
	1/13/09	< 50	< 300	< 50	ND	ND	ND	ND	-
	3/17/09	< 50	< 300	< 50	ND	ND	ND	ND	-
MW-8	6/16/08	< 50	< 300	< 50	ND	ND	ND	ND	-
	9/16/08	< 50	< 300	< 50	ND	ND	ND	ND	**ND** [4]
	1/12/09	< 50	< 300	< 50	ND	ND	ND	ND	-
	3/17/09	<50/<50	<300/<300	<50/<50	ND / ND	ND / ND	ND / ND	ND / ND	-
MW-9	6/16/08	< 50	< 300	< 50	ND	ND	ND	ND	-
	9/16/08	< 50	< 300	< 50	ND	ND	ND	ND	**ND** [4,5]
	1/9/09	< 50	< 300	< 50	ND	ND	ND	ND	-
	3/17/09	< 50	< 300	< 50	ND	ND	ND	ND	-
MW-10	6/16/08	< 50	< 300	< 50	ND	ND	ND	ND	-
	9/16/08	< 50	< 300	< 50	ND	ND	ND	ND	-
	1/13/09	< 50	< 300	< 50	ND	ND	ND	ND	-
	3/17/09	< 50	< 300	< 50	ND	ND	ND	ND	-
Field Blank	6/16/08	< 50	< 300	< 50	ND	ND	ND	ND	-
	9/16/08	< 50	< 300	< 50	ND	ND	ND	ND	-
	1/13/09	< 50	< 300	< 50	ND	ND	ND	ND	-
	3/17/09	< 50	< 300	< 50	ND	ND	ND	ND	-
Trip Blank	6/16/08	-	< 300	< 50	ND	ND	ND	-	-
	9/16/08	-	< 300	< 50	ND	ND	ND	-	-
ESLs (groundwater)		100	100	100	various	various	various	various	various

Table 4
Groundwater Analytical Results
Area of Concern # 1 / Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Monitoring Well ID	Date	Total Petroleum Hydrocarbons			BTEX (ug/l)	Fuel Ox (ug/l)	Lead Scav (ug/l)	SVOCs (ug/l)	Dissolved Metals (ug/l)
		TPHd* (ug/l)	TPHmo* (ug/l)	TPHg (ug/l)					

Notes:

ID = identification; monitoring well identification number
ug/l = micrograms per liter
ND = not detected; no compounds were detected above their respective laboratory reporting limits
J = reported concentration is estimated below the laboratory reporting limit
"-" = sample not analyzed
"<" = not detected above the laboratory report given

TPHd = total petroleum hydrocarbons as diesel
TPHmo = total petroleum hydrocarbons as motor oil
TPHg = total petroleum hydrocarbons as gasoline
BTEX = benzene, toluene, ethylbenzene, and total xylenes
Fuel Ox = fuel oxygenates
Lead Scav = lead scavengers
SVOCs = semivolatile organic compounds

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, May 2008, for Groundwater beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

* Samples analyzed for TPHd and TPHmo after silica-gel cleanup except for samples collected from wells MW-2, 5, 6, 7, 8, 9, and 10 on March 17, 2009.

[1] Toluene was detected at a low concentration of 0.3 ug/l estimated below the laboratory reporting limit in both the primary and duplicate samples collected from well MW-3 on 10/22/07.

[2] Toluene was detected at a low concentration of 0.4 ug/l estimated below the laboratory reporting limit in the sample collected from well MW-5 on 10/22/07.

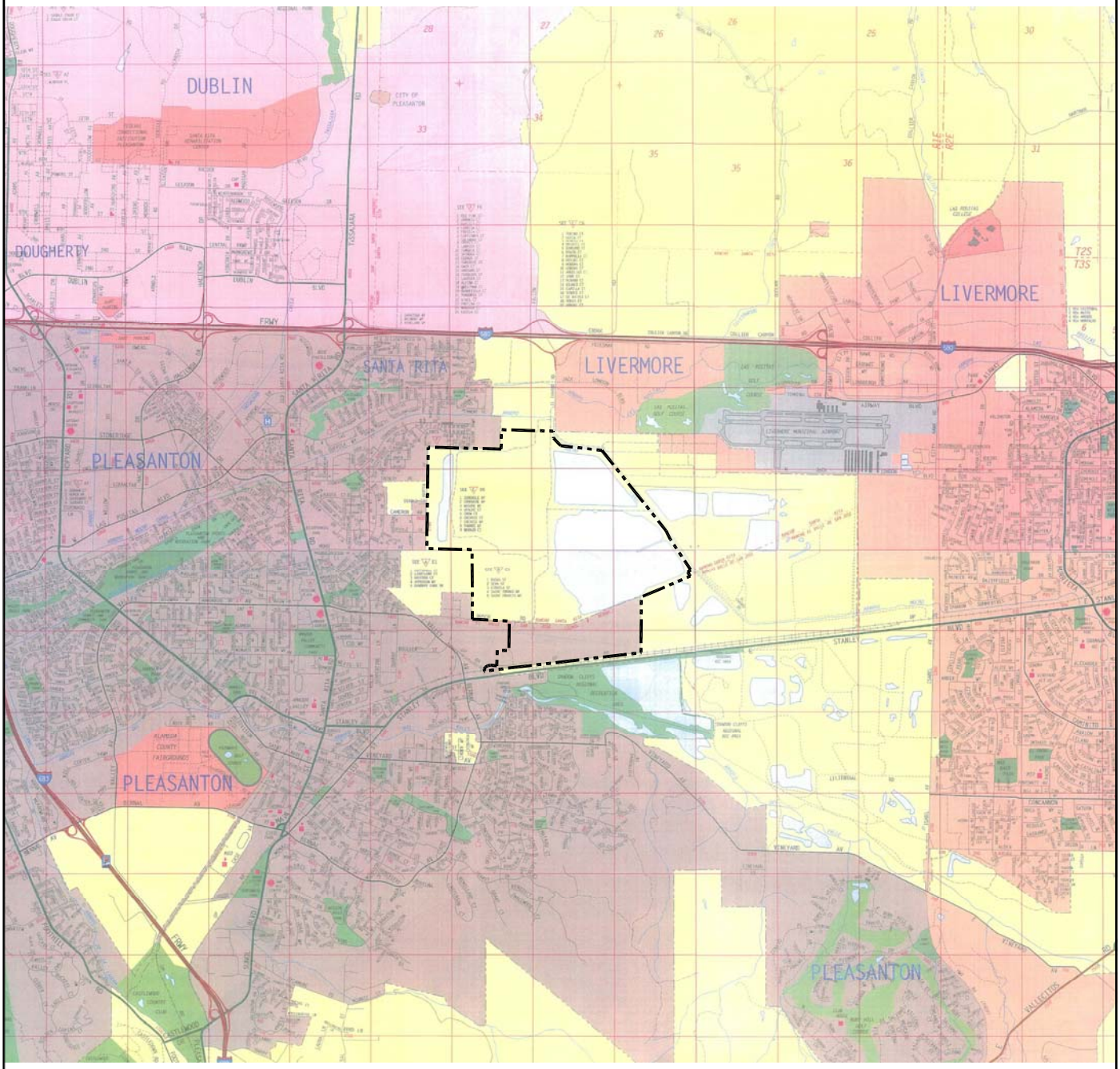
[3] Bis(2-ethylhexyl)phthalate was detected at a concentration of 9.8 ug/l in the primary sample collected from MW-2 but not in the duplicate sample (ESL is 4.0 ug/l).

[4] Barium was detected in the samples from wells MW-3, MW-8, and MW-9 at a concentration of 160, 230, and 150 ug/l, respectively (ESL is 1,000 ug/l).

[5] Copper was detected in sample from well MW-9 at a concentration of 5.0 ug/l (ESL is 3.1 ug/l).

Bold font indicates that analyte detected is above the laboratory reporting limit.

Outlined values indicates that analyte was detected over the respective ESL.



Source: Thomas Guide

EXPLANATION

Approximate Site Boundary

N

0 5000 FEET

APPROXIMATE SCALE

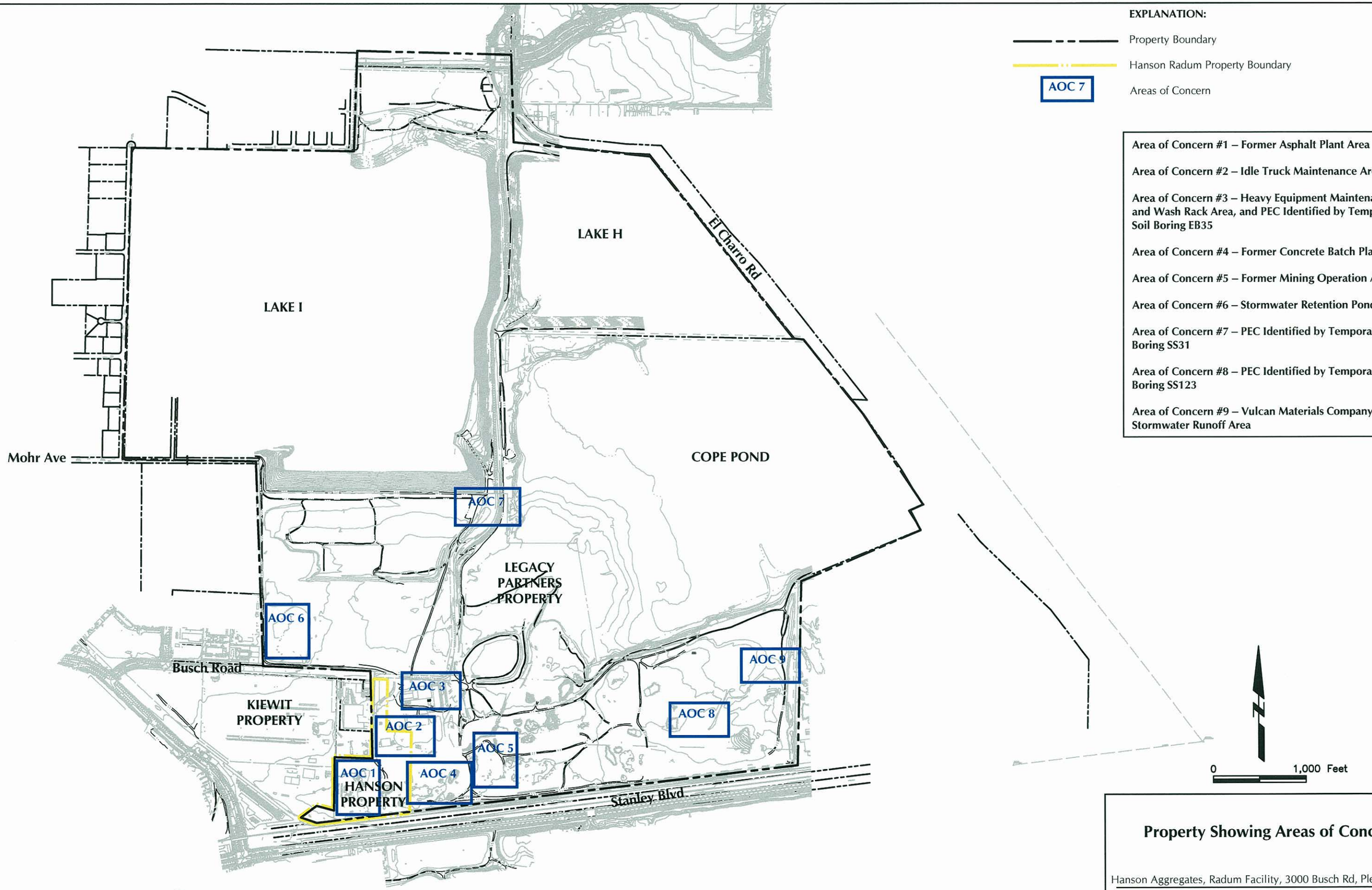
Site Location Map

Hanson Aggregates, Radum Facility, 3000 Busch Rd, Pleasanton, CA

LFR

Figure 1

I:\Design\001\09567\00\dwg\Pleasanton Drilling Locations.dwg Oct 23,2007-2:19pm



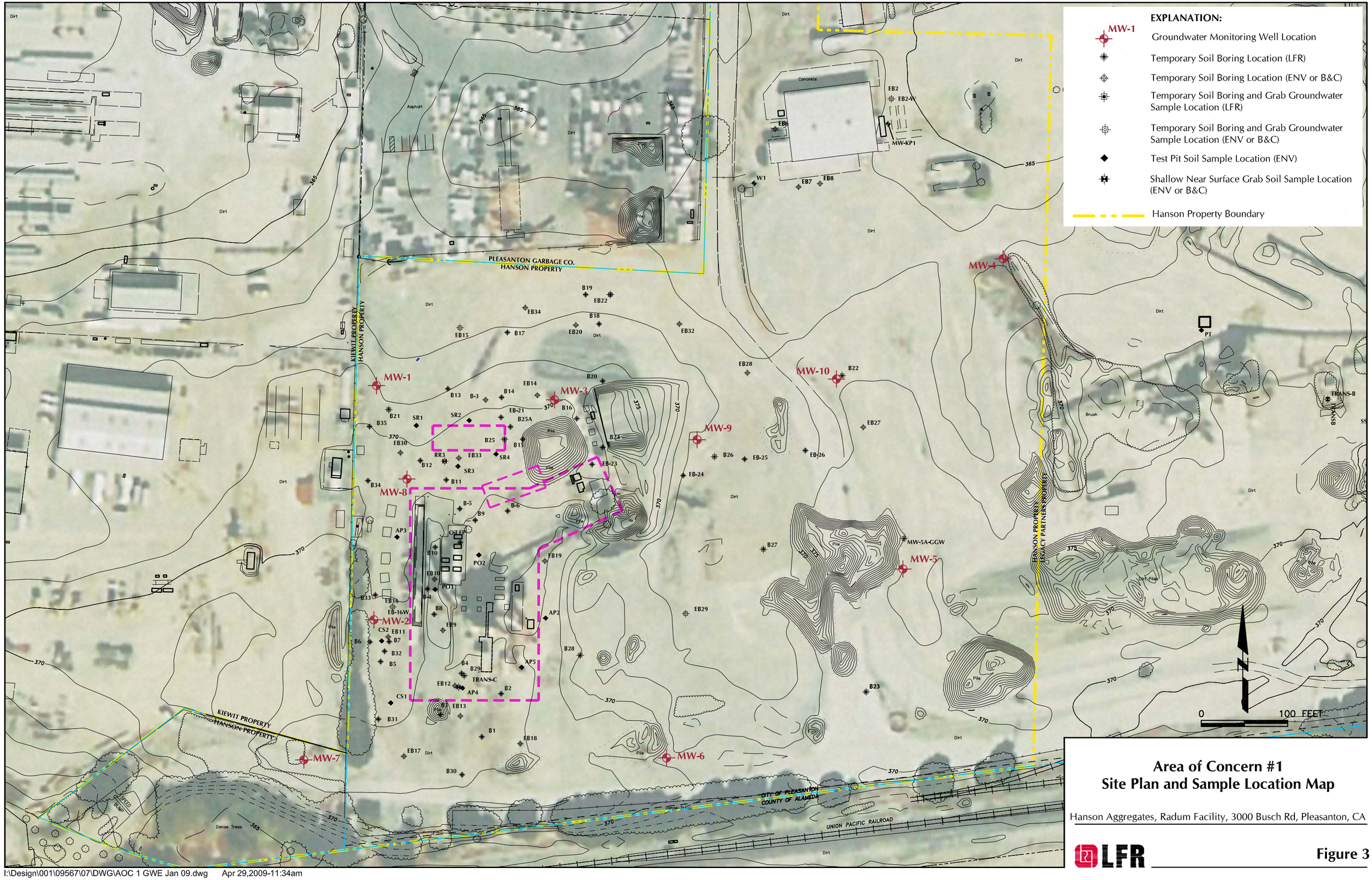
Property Showing Areas of Concern

Hanson Aggregates, Radum Facility, 3000 Busch Rd, Pleasanton, CA

LFR

Figure 2

I:\Design\001\09567\02\dwg\Site Plan w AOCs.dwg Jul 22,2008-10:36am



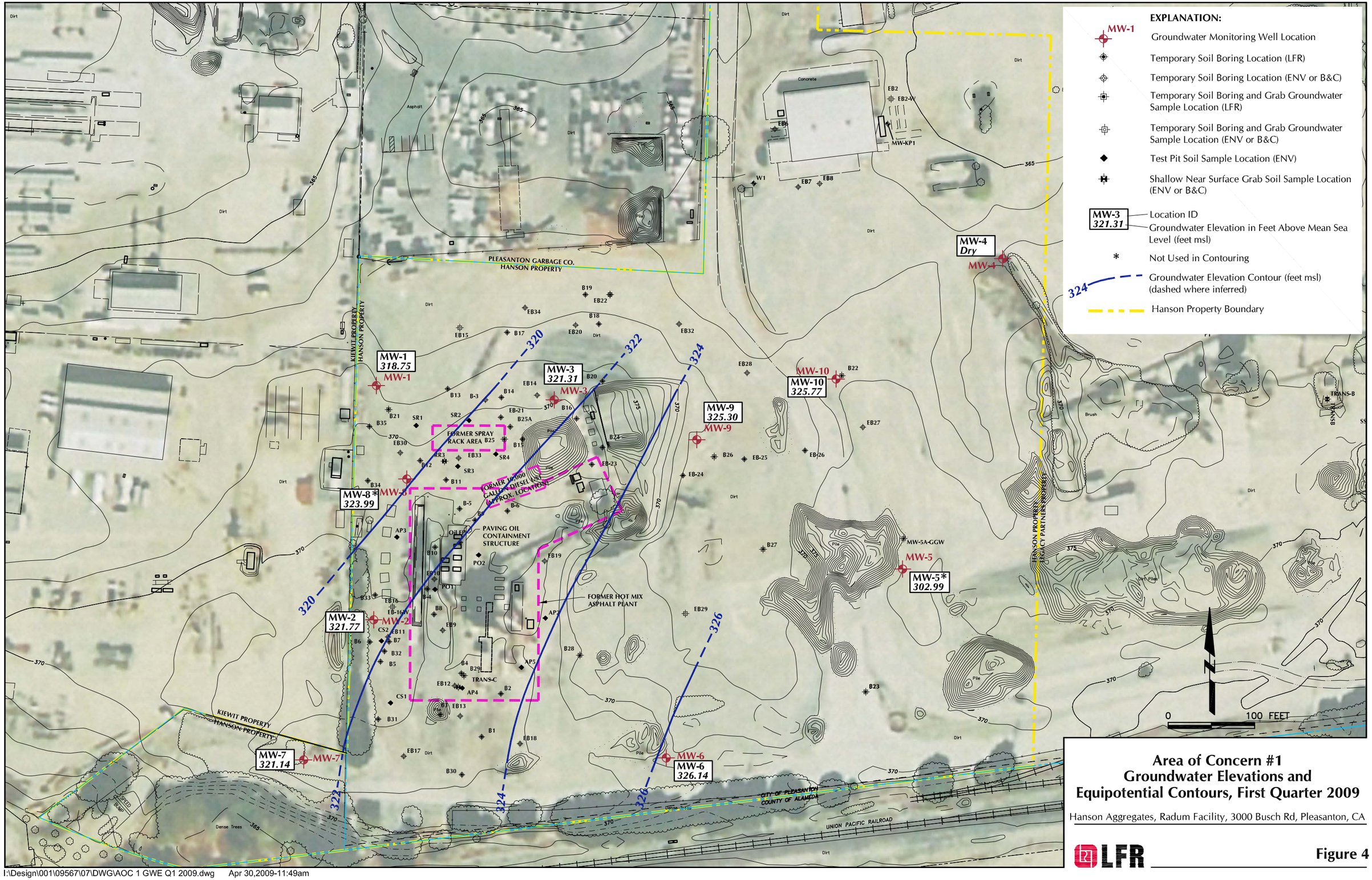
Area of Concern #1
Site Plan and Sample Location Map

Hanson Aggregates, Radum Facility, 3000 Busch Rd, Pleasanton, CA

LFR

Figure 3

I:\Design\001\09567\07\DWG\AOC 1 GWE Jan 09.dwg Apr 29,2009-11:34am



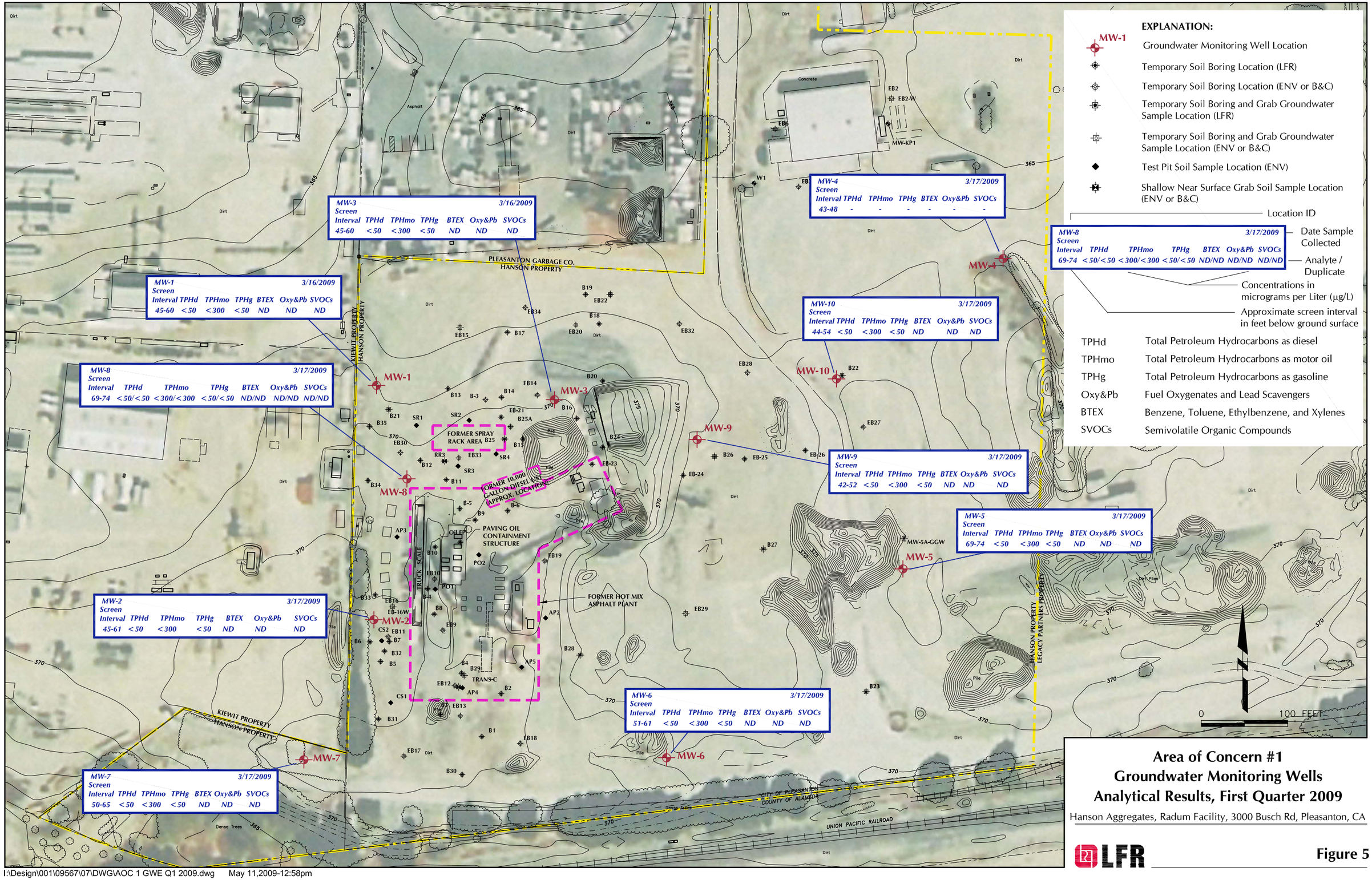
Area of Concern #1 Groundwater Elevations and Equipotential Contours, First Quarter 2009

Hanson Aggregates, Radum Facility, 3000 Busch Rd, Pleasanton, CA

LFR

Figure 4

I:\Design\001\09567\07\DWG\AOC 1 GWE Q1 2009.dwg Apr 30,2009-11:49am



EXPLANATION:

- MW-1 — Groundwater Monitoring Well Location
- Temporary Soil Boring Location (LFR)
- Temporary Soil Boring Location (ENV or B&C)
- Temporary Soil Boring and Grab Groundwater Sample Location (LFR)
- Temporary Soil Boring and Grab Groundwater Sample Location (ENV or B&C)
- Test Pit Soil Sample Location (ENV)
- Shallow Near Surface Grab Soil Sample Location (ENV or B&C)

MW-8 3/17/2009
Screen Interval TPHd TPHmo TPHg BTEX Oxy&Pb SVOCs
69-74 < 50/< 50 < 300/< 300 < 50/< 50 ND/ND ND/ND ND/ND

- Location ID
- Date Sample Collected
- Analyte / Duplicate
- Concentrations in micrograms per Liter (µg/L)
- Approximate screen interval in feet below ground surface

TPHd	Total Petroleum Hydrocarbons as diesel
TPHmo	Total Petroleum Hydrocarbons as motor oil
TPHg	Total Petroleum Hydrocarbons as gasoline
Oxy&Pb	Fuel Oxygenates and Lead Scavengers
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
SVOCs	Semivolatile Organic Compounds

Area of Concern #1
Groundwater Monitoring Wells
Analytical Results, First Quarter 2009

Hanson Aggregates, Radum Facility, 3000 Busch Rd, Pleasanton, CA

LFR

Figure 5

I:\Design\001\09567\07\DWG\AOC 1 GWE Q1 2009.dwg May 11,2009-12:58pm

APPENDIX A

Groundwater Monitoring Well Sampling Field Sheets

LFR LEVINE • FRICKE

WATER-LEVEL MEASUREMENTS LOG

Project No. 001-09567-07 Date 3/16/09 Page ____ of ____

Project Name Hanson Radum Day: ☐ Sun ☒ Mon ☐ Tues ☐ Weds ☐ Thurs ☐ Fri ☐ Sat

Field Personnel Tom Collins Ashley Gilreath

General Observations Cloudy

WELL NO.	WELL ELEVATION	DEPTH TO WATER 1	DEPTH TO WATER 2	WATER ELEVATION	WELL SECURE? Y	WELL SECURE? N	REMARKS (UNITS = FEET)
MW-10	8:25	50.35	50.35		X		
MW-4	8:30	48.54	48.54		X		well is dry/muddy
MW-5	8:45	71.36	71.36		X		
MW-6	8:48	48.89	48.84		X		
MW-7	8:50	56.54	56.54		X		
MW-2	8:53	54.56	54.56		X		
MW-8	8:56	54.61	54.61		~~X~~	X	Needs a lock
MW-1	9:00	55.92	55.92		X		
MW-3	9:03	53.64	53.64		X		
MW-9	9:05	50.46	50.45		X		
MW-3		39.49	39.49		X		AOC-8
MW-4		16.61	16.61		X		AOC-8
		17.19					

LFR LEVINE•FRICKE

WATER-QUALITY SAMPLING LOG

Project No. 001-09567-07-*** Date: March 16, 2009 Page 1 of

Project Name: Hanson Radum Sampling Location: Hasson Radum

Sampler's Name: Tom Collins Sample No.: MW-1 ☐ FB

Sampling Plan By: Ron Golobow Dated: C.O.C. No.: ☐ DUP

Purge Method: ☐ Centrifugal Pump ☒ Disposable Bailer ☒ Hand Bail ☐ Submersible Pump ☒ Teflon Bailer ☐ Other

Purge Water Storage Container Type: Drum Storage Location: On Site

Date Purge Water Disposed: Where Disposed: On Site

Analyses Requested	No. and Type of Bottles Used
TPHg, TPHd, TPHmo	
BTEX, SVOC's, Lead Scavengers, Fuel Oxy's	
Lab Name: ~~Curtis & Tompkins~~ Test america	
Delivery By ☐ Courier	☒ Hand

62.85 - 55.91

6.94 (.2) = 1.388

Well No. MW-1 Depth of Water 55.91

Well Diameter: 2" Well Depth 62.85

☒ 2" (0.16 gal/feet) ☐ 5" (1.02 gal/feet) Water Column Height 6.94

☐ 4" (0.65 gal/feet) ☐ 6" (1.47 gal/feet) Well Volume 1.11 ~1.25

80% DTW 57.298

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	ORP	Temperature (C°)	PH (SU)	Cond (µs/cmc)	DO (mg/l)	Remarks
12:20			Start Purge						
~~12~~:25			1.25	-8.4	18.41	6.83	1219	2.63	
13:33			2.5	-76.2	18.28	6.96	1189	2.30	
13:38			3.75	-89.3	18.19	6.99	1184	2.74	Calibrate Sensor
13:57			5.0	-126.2	18.68	7.00	1203	2.37	
14:05			6.25	-117.7	18.68	7.03	1191	2.89	
14:11			7.5	-120.4	18.53	7.01	1182	2.35	
14:20			8.75	-113	18.46	7.01	1194	2.37	
14:24			10.00	-117	18.50	7.05	1188	2.45	
14:40		56.03	Sample						
				VRC					

Continue remarks on reverse, if needed.

LFR LEVINE•FRICKE

WATER-QUALITY SAMPLING LOG

Project No. 001-09567-07-*** Date: March 17, 2009 Page 1 of

Project Name: Hanson Radum Sampling Location: Hanson Radum

Sampler's Name: Ashley Gilreath Sample No.: MW-2 ☐ FB

Sampling Plan By: Ron Golobow Dated: C.O.C. No.: ☐ DUP

Purge Method: ☐ Centrifugal Pump ☒ Disposable Bailer ☒ Hand Bail ☐ Submersible Pump ☒ Teflon Bailer ☐ Other

Purge Water Storage Container Type: DRUM Storage Location: On Site

Date Purge Water Disposed: Where Disposed: On Site

Analyses Requested	No. and Type of Bottles Used
TPHg, TPHd, TPHmo	
BTEX, SVOC's, Lead Scavengers, Fuel Oxy's	
Lab Name: ~~Curtis & Tompkins~~ Test America	
Delivery By ☐ Courier	☒ Hand

Well No. MW-2 Depth of Water 54.7

Well Diameter: Well Depth ~~63~~ 62.43

☒ 2" (0.16 gal/feet) ☐ 5" (1.02 gal/feet) Water Column Height 7.73

☐ 4" (0.65 gal/feet) ☐ 6" (1.47 gal/feet) Well Volume 1.24 ~ 1.25

7.73 (.2) = 1.55

80% DTW 56.25

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	ORP	Temperature (C°)	PH (SU)	Cond (µs/cmc)	DO (mg/l)	Remarks
1145		Start Purge							
1152			1.25	-128.8	17.93	6.94	725	3.44	
1156			2.5	-123.9	17.93	6.86	718	3.34	
1202			3.75	-121.4	17.96	6.85	718	3.24	
1212		54.69	Sample						
				TRC					

Continue remarks on reverse, if needed.

LFR LEVINE•FRICKE

WATER-QUALITY SAMPLING LOG

Project No. 001-09567-07-*** Date: March 16, 2009 Page 1 of

Project Name: Hanson Radum Sampling Location:

Sampler's Name: Ashley Gilreath Sample No.: ☐ FB

Sampling Plan By: Ron Golobow Dated: C.O.C. No.: ☐ DUP

Purge Method: ☐ Centrifugal Pump ☒ Disposable Bailer ☒ Hand Bail ☐ Submersible Pump ☒ Teflon Bailer ☐ Other

Purge Water Storage Container Type: Drum Storage Location: On Site

Date Purge Water Disposed: Where Disposed: On Site

Analyses Requested	No. and Type of Bottles Used
TPHg, TPHd, TPHmo	
BTEX, SVOC's, Lead Scavengers, Fuel Oxy's	
Lab Name: ~~Curtis & Tompkins~~ Test America	
Delivery By ☐ Courier	☒ Hand

8.78 (.2) 1.756

Well No. MW-3 Depth of Water 53.64

Well Diameter: 2" Well Depth 62.42

☒ 2" (0.16 gal/feet) ☐ 5" (1.02 gal/feet) Water Column Height 8.78

☐ 4" (0.65 gal/feet) ☐ 6" (1.47 gal/feet) Well Volume 1.41 ~1.5

80% DTW 55.84

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	ORP	Temperature ~~°F~~ °F	PH (SU)	Cond (µs/cmc)	DO (mg/l)	Remarks
1325			1.5	-7.0	63.39	6.3	.886	~~3.67~~ 3.5	
1337			3.0	-6.0	63.46	6.85	.772	2.26	
1342			4.5	.8	63.59	7.14	.768	2.98	
1346			6.0	9.6	63.95	6.96	.762	2.63	
1356			7.5	-3.3	63.63	6.96	.763	2.26	
1403			9.0	5.8	63.47	7.00	.763	2.67	
1413			10.5	13.4	63.65	7.02	.762	2.33	
1424			12.0	4.4	63.64	6.93	.762	1.61	
1430			13.5	-1.6	63.97	7.00	.765	3.10	
1436			15.0	18.3	64.59	6.97	.756	2.07	
1450			16.5	3.5	63.94	7.16	.756	2.14	
1458			18.0	1.2	63.58	7.01	.759	2.12	
15:05		53.69	Sample						
					TRC				

Continue remarks on reverse, if needed.

LFR LEVINE•FRICKE

WATER-QUALITY SAMPLING LOG

Project No. 001-09567-07-*** Date: March 17, 2009 Page 1 of

Project Name: Hanson Radum Sampling Location: Hanson Radum

Sampler's Name: Tom Collins Sample No.: MW-5 ☒ FB

Sampling Plan By: Ron Golobow Dated: C.O.C. No.: ☐ DUP

Purge Method: ☐ Centrifugal Pump ☒ Disposable Bailer ☒ Hand Bail ☐ Submersible Pump ☒ Teflon Bailer ☐ Other

Purge Water Storage Container Type: Drum Storage Location: On Site

Date Purge Water Disposed: Where Disposed: On Site

Analyses Requested	No. and Type of Bottles Used
TPHg, TPHd, TPHmo	
BTEX, SVOC's, Lead Scavengers, Fuel Oxy's	
Lab Name: ~~Curtis & Tompkins~~ Test America	
Delivery By ☐ Courier	☒ Hand

Well No. MW-5 Depth of Water 71.47

Well Diameter: 2" Well Depth 77.30

☒ 2" (0.16 gal/feet) ☐ 5" (1.02 gal/feet) Water Column Height 5.90

☐ 4" (0.65 gal/feet) ☐ 6" (1.47 gal/feet) Well Volume .94 ≈ 1 gal

(5.90) .2 =

71.47 + 1.18

80% DTW 72.65

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	ORP	Temperature (~~C~~ F	PH (SU)	Cond (µs/cmc)	DO (mg/l)	Remarks
8:55		Start		Purge					
9:01			1	-28.3	61.71	7.80	.737	4.79	
9:06			2	-27.4	61.23	7.82	.741	4.77	
9:11			3	-27.9	61.63	7.78	.732	4.36	
9:18			4	-23.1	62.30	7.77	.725	4.06	
9:22			5	-21.8	61.96	7.73	.727	3.90	
9:26			6	-20.5	62.37	7.75	.723	3.76	
9:30			7	-19.7	62.30	7.78	.722	4.01	
9:35		71.48		Sample					
FB-03									
				TRC					

Continue remarks on reverse, if needed.

LFR LEVINE•FRICKE

WATER-QUALITY SAMPLING LOG

Project No. 001-09567-07-*** Date: March 17, 2009 Page 1 of ____

Project Name: Hanson Radum Sampling Location: Hanson Radum

Sampler's Name: A. Gilreath Sample No.: MW-6 ☐ FB

Sampling Plan By: Ron Golobow Dated: ____ C.O.C. No.: ____ ☐ DUP ____

Purge Method: ☐ Centrifugal Pump ☒ Disposable Bailer ☒ Hand Bail ☐ Submersible Pump ☒ Teflon Bailer ☐ Other ____

Purge Water Storage Container Type: Drum Storage Location: On Site

Date Purge Water Disposed: ____ Where Disposed: On Site

Analyses Requested	No. and Type of Bottles Used
TPHg, TPHd, TPHmo	
BTEX, SVOC's, Lead Scavengers, Fuel Oxy's	
Lab Name: ~~Curtis & Tomplkins~~ Test america	
Delivery By ☐ Courier	☒ Hand

Well No. MW-6 Depth of Water 48.94

Well Diameter: ____ Well Depth 57.94

☒ 2" (0.16 gal/feet) ☐ 5" (1.02 gal/feet) Water Column Height 9

☐ 4" (0.65 gal/feet) ☐ 6" (1.47 gal/feet) Well Volume 1.44 x 1.5

48.94 (.2) = 9.79

80% DTW 58.73

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	ORP	Temperature (C°)	PH (SU)	Cond (µs/cmc)	DO (mg/l)	Remarks
1015		Start	purge						
1025			1.5	-115.9	17.31	7.14	698	3.89	
1028			3	-112.9	17.25	7.11	696	3.93	
1034			4.5	-103.9	17.20	7.12	686	4.48	
1037			6	-96.1	17.60	7.04	682	3.70	
1055		49.2	~~6~~ 7.5	Sample					

TRC

Continue remarks on reverse, if needed.

LFR LEVINE•FRICKE

WATER-QUALITY SAMPLING LOG

Project No. 001-09567-07-*** Date: March 17, 2009 Page 1 of

Project Name: Hanson Radum Sampling Location: Hanson Radum

Sampler's Name: Tom Collins Sample No.: MW-7 ☐ FB

Sampling Plan By: Ron Golobow Dated: C.O.C. No.: ☐ DUP

Purge Method: ☐ Centrifugal Pump ☒ Disposable Bailer ☒ Hand Bail ☐ Submersible Pump ☒ Teflon Bailer ☐ Other

Purge Water Storage Container Type: Drum Storage Location: On Site

Date Purge Water Disposed: Where Disposed: On Site

Analyses Requested	No. and Type of Bottles Used
TPHg, TPHd, TPHmo	
BTEX, SVOC's, Lead Scavengers, Fuel Oxy's	
Lab Name: ~~Curtis & Tompkins~~ Test America	
Delivery By ☐ Courier	☒ Hand

2.07 + 56.60

Well No. MW-7 Depth of Water 56.60

Well Diameter: 2" Well Depth 66.95

☒ 2" (0.16 gal/feet) ☐ 5" (1.02 gal/feet) Water Column Height 10.35

☐ 4" (0.65 gal/feet) ☐ 6" (1.47 gal/feet) Well Volume 1.65 ~~2.80~~ ~~2.72~~ ~1.75

80% DTW 58.67

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	ORP	Temperature (C°)	PH (SU)	Cond (µS/cmc)	DO (mg/l)	Remarks
10:30			Start						
10:43			1.75	41.3	64.87	6.59	.714	2.51	
10:48		3.5	~~3.50~~	18.4	64.83	~~6.68~~	.719	2.10	
10:57		5.25	~~5.25~~	26.0	64.78	6.67	.712	2.08	
11:10		7	~~7~~ 8.0	20.9	65 ~~.08~~	6.76	.713	2.42	
11:15		56.70	Sample						
				TRC					

Continue remarks on reverse, if needed.

LFR LEVINE•FRICKE

WATER-QUALITY SAMPLING LOG

Project No. 001-09567-07-*** Date: March 17, 2009 Page 1 of 1

Project Name: Hanson Radum Sampling Location: Hanson Radum

Sampler's Name: Tom Collins Sample No.: MW-8 ☐ FB

Sampling Plan By: Ron Golobow Dated: C.O.C. No.: ☒ DUP

Purge Method: ☐ Centrifugal Pump ☒ Disposable Bailer ☒ Hand Bail ☐ Submersible Pump ☐ Teflon Bailer ☐ Other

Purge Water Storage Container Type: DRUM Storage Location: On Site

Date Purge Water Disposed: Where Disposed: On Site

Analyses Requested	No. and Type of Bottles Used
TPHg, TPHd, TPHmo	
BTEX, SVOC's, Lead Scavengers, Fuel Oxy's	
Lab Name: ~~Curtis & Tompkins~~ Test America	
Delivery By ☐ Courier	☒ Hand

Well No. MW-8 Depth of Water 54.67

Well Diameter: Well Depth 64.30

☒ 2" (0.16 gal/feet) ☐ 5" (1.02 gal/feet) Water Column Height 9.63

☐ 4" (0.65 gal/feet) ☐ 6" (1.47 gal/feet) Well Volume 1.541 ~ 1.5

1.926 + 54.67

80% DTW 56.596

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	ORP	Temperature (C°)	PH (SU)	Cond (µs/cmc)	DO (mg/l)	Remarks
10:50				Start Purge					well needs
12:05			1.5	33.6	67.24	6.93	.923	1.72	Lock cal DO
12:12			3.0	-2.5	66.07	7.07	.931	1.94	
12:18			4.5	-2.8	66.07	7.21	.921	1.59	
12:23			6.0	4.7	66.38	7.20	.921	2.25	
12:30	54.75	Sample							
12:45		DUP							
				TRC					

Continue remarks on reverse, if needed.

LFR LEVINE•FRICKE

WATER-QUALITY SAMPLING LOG

Project No. 001-09567-07-*** Date: March 11, 2009 Page 1 of

Project Name: Hanson Radum Sampling Location: Hanson Radum

Sampler's Name: A. Gilreath Sample No.: ☐ FB

Sampling Plan By: Ron Golobow Dated: C.O.C. No.: ☐ DUP

Purge Method: ☐ Centrifugal Pump ☐ Disposable Bailer ☐ Hand Bail ☐ Submersible Pump ☐ Teflon Bailer ☐ Other

Purge Water Storage Container Type: Storage Location: On Site

Date Purge Water Disposed: Where Disposed: On Site

Analyses Requested	No. and Type of Bottles Used
TPHg, TPHd, TPHmo	
BTEX, SVOC's, Lead Scavengers, Fuel Oxy's	
Lab Name: ~~Curtis & Tompkins~~ Test america	
Delivery By ☐ Courier	☒ Hand

4.56 (.2) = .912

80% DTW 51.422

Well No. MW-9 Depth of Water 50.51

Well Diameter: 2" Well Depth 55.07

☒ 2" (0.16 gal/feet) ☐ 5" (1.02 gal/feet) Water Column Height 4.56

☐ 4" (0.65 gal/feet) ☐ 6" (1.47 gal/feet) Well Volume .73 ~ .75

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	ORP	Temperature (C°)	PH (SU)	Cond (µs/cmc)	DO (mg/l)	Remarks
8:36			.75	.9	17.8	7.05	795	1.62	
845			1.5	-1.6	17.74	7.08	796	1.93	
850			2.25	-3.9	17.95	7.08	803	2.18	
853			3	-7.9	18.05	7.01	808	2.44	
858			3.75	-9.9	17.82	7.05	806	2.13	
902			4.5	-11.6	18.12	7.05	810	2.21	
906			5.25	-21.9	17.42	7.09	810	2.70	
911			6	-31.4	18.19	7.06	821	2.57	
0916			6.75	-43.2	17.69	7.08	813	2.30	
0920			7.5	-67.9	18.18	7.07	822	2.39	
0926			8.25	-78.6	17.91	7.05	815	2.08	
0930			9	-79.7	17.97	7.01	813	2.53	
0942		50.52	~~9.75~~	Sample					

TRC

Continue remarks on reverse, if needed.

LFR LEVINE•FRICKE

WATER-QUALITY SAMPLING LOG

Project No. 001-09567-07-*** Date: March 17, 2009 Page 1 of

Project Name: Hanson Radum Sampling Location: Hanson Radum

Sampler's Name: A. Gilreath Sample No.: MW-10 ☐ FB

Sampling Plan By: Ron Golobow Dated: C.O.C. No.: ☐ DUP

Purge Method: ☐ Centrifugal Pump ☒ Disposable Bailer ☒ Hand Bail ☐ Submersible Pump ☒ Teflon Bailer ☐ Other

Purge Water Storage Container Type: Storage Location: On Site

Date Purge Water Disposed: Where Disposed: On Site

Analyses Requested	No. and Type of Bottles Used
TPHg, TPHd, TPHmo	
BTEX, SVOC's, Lead Scavengers, Fuel Oxy's	
Lab Name: ~~Curtis & Tompkins~~ Test America	
Delivery By ☐ Courier	☒ Hand

6

1.32 + 50.34

Well No. MW-10 Depth of Water 50.34

Well Diameter: 2" Well Depth 56.93

☒ 2" (0.16 gal/feet) ☐ 5" (1.02 gal/feet) Water Column Height 6.59

☐ 4" (0.65 gal/feet) ☐ 6" (1.47 gal/feet) Well Volume 1.05 ~1

80% DTW 51.66

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	ORP	Temperature (C°)	PH (SU)	Cond (µs/cmc)	DO (mg/l)	Remarks
1425									Start purging
1430				-221.7	19.18	6.97	1099	2.68	
1432				-221.6	19.00	6.88	1086	2.68	
1436				-217.5	18.58	6.87	1075	1.83	
1441				-184.8	19.12	6.91	1084	2.72	
1449		50.54							Sample

TRC

Continue remarks on reverse, if needed.

APPENDIX B

Laboratory Certified Analytical Reports

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-18564-1

Job Description: Hanson Radum

For:
LFR, Inc.
1900 Powell St 12th Floor
Emeryville, CA 94608-1827

Attention: Mr. Ron Goloubow

Approved for release.
Afsaneh Salimpour
Project Manager I
3/30/2009 5:16 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com
03/30/2009

Job Narrative
720-J18564-1

Comments
No additional comments.

Receipt
Received 3 voas labeled MW-9. 1 of the 3 voas the time on it is 12:45. Time on the other 2 voas match the COC:9:42. The sample that is labeled for 12:45 looks very different than the other 2. Labeled as MW-9 and wrote on container for the lab not to use this voa.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B/CA_LUFTMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 47947 were outside control limits. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
Method(s) 3510C SGC: not enough sample; only one amber provided for diesel .

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: LFR, Inc. Job Number: 720-18564-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: LFR, Inc. Job Number: 720-18564-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL SF	SW846 8270C	
Liquid-Liquid Extraction (Separatory Funnel)	TAL SF		SW846 3510C
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Liquid-Liquid Extraction (Separatory Funnel)	TAL SF		SW846 3510C
Liquid-Liquid Extraction (Separatory Funnel)	TAL SF		SW846 3510C SGC

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: LFR, Inc. Job Number: 720-18564-1

Method	Analyst	Analyst ID
SW846 8260B/CA_LUFTMS	Ali, Badri	BA
SW846 8270C	Lee, Michael	ML
SW846 8015B	Hayashi, Derek	DH
SW846 8015B	Relja, Marlene	MR

SAMPLE SUMMARY

Client: LFR, Inc. Job Number: 720-18564-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-18564-1	MW-5	Water	03/17/2009 0935	03/17/2009 1545
720-18564-2	MW-9	Water	03/17/2009 0942	03/17/2009 1545
720-18564-3	MW-7	Water	03/17/2009 1115	03/17/2009 1545
720-18564-4	MW-6	Water	03/17/2009 1055	03/17/2009 1545
720-18564-5	MW-8	Water	03/17/2009 1230	03/17/2009 1545
720-18564-6	MW-2	Water	03/17/2009 1212	03/17/2009 1545
720-18564-7	MW-10	Water	03/17/2009 1449	03/17/2009 1545
720-18564-8FD	MW-8-DUP	Water	03/17/2009 1245	03/17/2009 1545
720-18564-9FB	FB-031709	Water	03/17/2009 0830	03/17/2009 1545

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-5

Lab Sample ID: 720-18564-1 Date Sampled: 03/17/2009 0935
Client Matrix: Water Date Received: 03/17/2009 1545

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-47947 Instrument ID: Varian 3900A
Preparation: 5030B Lab File ID: e:\data\2009\200903\03230
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 03/23/2009 1454 Final Weight/Volume: 10 mL
Date Prepared: 03/23/2009 1454

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
EDB	ND		0.50
DIPE	ND		1.0
TBA	ND		5.0
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	90	78 - 112
1,2-Dichloroethane-d4 (Surr)	87	67 - 126

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-9

Lab Sample ID: 720-18564-2 Date Sampled: 03/17/2009 0942
Client Matrix: Water Date Received: 03/17/2009 1545

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-47947 Instrument ID: Varian 3900A
Preparation: 5030B Lab File ID: e:\data\2009\200903\03230
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 03/23/2009 1648 Final Weight/Volume: 10 mL
Date Prepared: 03/23/2009 1648

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
EDB	ND		0.50
DIPE	ND		1.0
TBA	ND		5.0
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	92	78 - 112
1,2-Dichloroethane-d4 (Surr)	92	67 - 126

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-7

Lab Sample ID: 720-18564-3 Date Sampled: 03/17/2009 1115
Client Matrix: Water Date Received: 03/17/2009 1545

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-47947 Instrument ID: Varian 3900A
Preparation: 5030B Lab File ID: e:\data\2009\200903\03230
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 03/23/2009 1711 Final Weight/Volume: 10 mL
Date Prepared: 03/23/2009 1711

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
EDB	ND		0.50
DIPE	ND		1.0
TBA	ND		5.0
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	89	78 - 112
1,2-Dichloroethane-d4 (Surr)	92	67 - 126

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-6

Lab Sample ID: 720-18564-4 Date Sampled: 03/17/2009 1055
Client Matrix: Water Date Received: 03/17/2009 1545

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-47947 Instrument ID: Varian 3900A
Preparation: 5030B Lab File ID: e:\data\2009\200903\03230
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 03/23/2009 1733 Final Weight/Volume: 10 mL
Date Prepared: 03/23/2009 1733

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
EDB	ND		0.50
DIPE	ND		1.0
TBA	ND		5.0
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	90	78 - 112
1,2-Dichloroethane-d4 (Surr)	93	67 - 126

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-8

Lab Sample ID: 720-18564-5 Date Sampled: 03/17/2009 1230
Client Matrix: Water Date Received: 03/17/2009 1545

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-47947 Instrument ID: Varian 3900A
Preparation: 5030B Lab File ID: e:\data\2009\200903\03230
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 03/23/2009 1756 Final Weight/Volume: 10 mL
Date Prepared: 03/23/2009 1756

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
EDB	ND		0.50
DIPE	ND		1.0
TBA	ND		5.0
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	92	78 - 112
1,2-Dichloroethane-d4 (Surr)	95	67 - 126

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-2

Lab Sample ID: 720-18564-6 Date Sampled: 03/17/2009 1212
Client Matrix: Water Date Received: 03/17/2009 1545

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-47947 Instrument ID: Varian 3900A
Preparation: 5030B Lab File ID: e:\data\2009\200903\03230
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 03/23/2009 1819 Final Weight/Volume: 10 mL
Date Prepared: 03/23/2009 1819

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
EDB	ND		0.50
DIPE	ND		1.0
TBA	ND		5.0
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	92	78 - 112
1,2-Dichloroethane-d4 (Surr)	90	67 - 126

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-10

Lab Sample ID: 720-18564-7
Client Matrix: Water

Date Sampled: 03/17/2009 1449
Date Received: 03/17/2009 1545

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/23/2009 1841
Date Prepared: 03/23/2009 1841

Analysis Batch: 720-47947

Instrument ID: Varian 3900A
Lab File ID: e:\data\2009\200903\03230
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
EDB	ND		0.50
DIPE	ND		1.0
TBA	ND		5.0
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	91	78 - 112
1,2-Dichloroethane-d4 (Surr)	91	67 - 126

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-8-DUP

Lab Sample ID: 720-18564-8FD
Client Matrix: Water

Date Sampled: 03/17/2009 1245
Date Received: 03/17/2009 1545

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/23/2009 1904
Date Prepared: 03/23/2009 1904

Analysis Batch: 720-47947

Instrument ID: Varian 3900A
Lab File ID: e:\data\2009\200903\03230
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
EDB	ND		0.50
DIPE	ND		1.0
TBA	ND		5.0
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	96	78 - 112
1,2-Dichloroethane-d4 (Surr)	94	67 - 126

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: FB-031709

Lab Sample ID: 720-18564-9FB
Client Matrix: Water

Date Sampled: 03/17/2009 0830
Date Received: 03/17/2009 1545

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/23/2009 1431
Date Prepared: 03/23/2009 1431

Analysis Batch: 720-47947

Instrument ID: Varian 3900A
Lab File ID: e:\data\2009\200903\03230
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
EDB	ND		0.50
DIPE	ND		1.0
TBA	ND		5.0
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	90	78 - 112
1,2-Dichloroethane-d4 (Surr)	87	67 - 126

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-5

Lab Sample ID: 720-18564-1 Date Sampled: 03/17/2009 0935
Client Matrix: Water Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 980 mL
Date Analyzed: 03/25/2009 1403 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Phenol	ND		2.0
Bis(2-chloroethyl)ether	ND		2.0
2-Chlorophenol	ND		2.0
1,3-Dichlorobenzene	ND		2.0
1,4-Dichlorobenzene	ND		2.0
Benzyl alcohol	ND		5.1
1,2-Dichlorobenzene	ND		2.0
2-Methylphenol	ND		2.0
4-Methylphenol	ND		2.0
N-Nitrosodi-n-propylamine	ND		2.0
Hexachloroethane	ND		2.0
Nitrobenzene	ND		2.0
Isophorone	ND		2.0
2-Nitrophenol	ND		2.0
2,4-Dimethylphenol	ND		2.0
Bis(2-chloroethoxy)methane	ND		5.1
2,4-Dichlorophenol	ND		5.1
1,2,4-Trichlorobenzene	ND		2.0
Naphthalene	ND		2.0
4-Chloroaniline	ND		2.0
Hexachlorobutadiene	ND		2.0
4-Chloro-3-methylphenol	ND		5.1
2-Methylnaphthalene	ND		2.0
Hexachlorocyclopentadiene	ND		5.1
2,4,6-Trichlorophenol	ND		2.0
2,4,5-Trichlorophenol	ND		2.0
2-Chloronaphthalene	ND		2.0
2-Nitroaniline	ND		10
Dimethyl phthalate	ND		5.1
Acenaphthylene	ND		2.0
3-Nitroaniline	ND		5.1
Acenaphthene	ND		2.0
2,4-Dinitrophenol	ND		10
4-Nitrophenol	ND		10
Dibenzofuran	ND		2.0
2,4-Dinitrotoluene	ND		2.0
2,6-Dinitrotoluene	ND		5.1
Diethyl phthalate	ND		5.1
4-Chlorophenyl phenyl ether	ND		5.1
Fluorene	ND		2.0
4-Nitroaniline	ND		10
2-Methyl-4,6-dinitrophenol	ND		10
N-Nitrosodiphenylamine	ND		2.0
4-Bromophenyl phenyl ether	ND		5.1

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-5

Lab Sample ID: 720-18564-1 Date Sampled: 03/17/2009 0935
Client Matrix: Water Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 980 mL
Date Analyzed: 03/25/2009 1403 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Hexachlorobenzene	ND		2.0
Pentachlorophenol	ND		10
Phenanthrene	ND		2.0
Anthracene	ND		2.0
Di-n-butyl phthalate	ND		5.1
Fluoranthene	ND		2.0
Pyrene	ND		2.0
Butyl benzyl phthalate	ND		5.1
3,3'-Dichlorobenzidine	ND		5.1
Benzo[a]anthracene	ND		5.1
Bis(2-ethylhexyl) phthalate	ND		10
Chrysene	ND		2.0
Di-n-octyl phthalate	ND		20
Benzo[b]fluoranthene	ND		2.0
Benzo[a]pyrene	ND		2.0
Benzo[k]fluoranthene	ND		2.0
Indeno[1,2,3-cd]pyrene	ND		2.0
Benzo[g,h,i]perylene	ND		2.0
Benzoic acid	ND		10
Azobenzene	ND		2.0
Dibenz(a,h)anthracene	ND		2.0

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	69	6 - 98
2-Fluorobiphenyl	68	6 - 103
Terphenyl-d14	75	36 - 106
2-Fluorophenol	40	1 - 66
Phenol-d5	27	1 - 47
2,4,6-Tribromophenol	70	22 - 124

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-9

Lab Sample ID: 720-18564-2 Date Sampled: 03/17/2009 0942
Client Matrix: Water Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 950 mL
Date Analyzed: 03/25/2009 1436 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Phenol	ND		2.1
Bis(2-chloroethyl)ether	ND		2.1
2-Chlorophenol	ND		2.1
1,3-Dichlorobenzene	ND		2.1
1,4-Dichlorobenzene	ND		2.1
Benzyl alcohol	ND		5.3
1,2-Dichlorobenzene	ND		2.1
2-Methylphenol	ND		2.1
4-Methylphenol	ND		2.1
N-Nitrosodi-n-propylamine	ND		2.1
Hexachloroethane	ND		2.1
Nitrobenzene	ND		2.1
Isophorone	ND		2.1
2-Nitrophenol	ND		2.1
2,4-Dimethylphenol	ND		2.1
Bis(2-chloroethoxy)methane	ND		5.3
2,4-Dichlorophenol	ND		5.3
1,2,4-Trichlorobenzene	ND		2.1
Naphthalene	ND		2.1
4-Chloroaniline	ND		2.1
Hexachlorobutadiene	ND		2.1
4-Chloro-3-methylphenol	ND		5.3
2-Methylnaphthalene	ND		2.1
Hexachlorocyclopentadiene	ND		5.3
2,4,6-Trichlorophenol	ND		2.1
2,4,5-Trichlorophenol	ND		2.1
2-Chloronaphthalene	ND		2.1
2-Nitroaniline	ND		11
Dimethyl phthalate	ND		5.3
Acenaphthylene	ND		2.1
3-Nitroaniline	ND		5.3
Acenaphthene	ND		2.1
2,4-Dinitrophenol	ND		11
4-Nitrophenol	ND		11
Dibenzofuran	ND		2.1
2,4-Dinitrotoluene	ND		2.1
2,6-Dinitrotoluene	ND		5.3
Diethyl phthalate	ND		5.3
4-Chlorophenyl phenyl ether	ND		5.3
Fluorene	ND		2.1
4-Nitroaniline	ND		11
2-Methyl-4,6-dinitrophenol	ND		11
N-Nitrosodiphenylamine	ND		2.1
4-Bromophenyl phenyl ether	ND		5.3

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-9

Lab Sample ID: 720-18564-2 Date Sampled: 03/17/2009 0942
Client Matrix: Water Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 950 mL
Date Analyzed: 03/25/2009 1436 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Hexachlorobenzene	ND		2.1
Pentachlorophenol	ND		11
Phenanthrene	ND		2.1
Anthracene	ND		2.1
Di-n-butyl phthalate	ND		5.3
Fluoranthene	ND		2.1
Pyrene	ND		2.1
Butyl benzyl phthalate	ND		5.3
3,3'-Dichlorobenzidine	ND		5.3
Benzo[a]anthracene	ND		5.3
Bis(2-ethylhexyl) phthalate	ND		11
Chrysene	ND		2.1
Di-n-octyl phthalate	ND		21
Benzo[b]fluoranthene	ND		2.1
Benzo[a]pyrene	ND		2.1
Benzo[k]fluoranthene	ND		2.1
Indeno[1,2,3-cd]pyrene	ND		2.1
Benzo[g,h,i]perylene	ND		2.1
Benzoic acid	ND		11
Azobenzene	ND		2.1
Dibenz(a,h)anthracene	ND		2.1

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	67	6 - 98
2-Fluorobiphenyl	63	6 - 103
Terphenyl-d14	73	36 - 106
2-Fluorophenol	40	1 - 66
Phenol-d5	27	1 - 47
2,4,6-Tribromophenol	77	22 - 124

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-7

Lab Sample ID: 720-18564-3 Date Sampled: 03/17/2009 1115
Client Matrix: Water Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 980 mL
Date Analyzed: 03/25/2009 1510 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Phenol	ND		2.0
Bis(2-chloroethyl)ether	ND		2.0
2-Chlorophenol	ND		2.0
1,3-Dichlorobenzene	ND		2.0
1,4-Dichlorobenzene	ND		2.0
Benzyl alcohol	ND		5.1
1,2-Dichlorobenzene	ND		2.0
2-Methylphenol	ND		2.0
4-Methylphenol	ND		2.0
N-Nitrosodi-n-propylamine	ND		2.0
Hexachloroethane	ND		2.0
Nitrobenzene	ND		2.0
Isophorone	ND		2.0
2-Nitrophenol	ND		2.0
2,4-Dimethylphenol	ND		2.0
Bis(2-chloroethoxy)methane	ND		5.1
2,4-Dichlorophenol	ND		5.1
1,2,4-Trichlorobenzene	ND		2.0
Naphthalene	ND		2.0
4-Chloroaniline	ND		2.0
Hexachlorobutadiene	ND		2.0
4-Chloro-3-methylphenol	ND		5.1
2-Methylnaphthalene	ND		2.0
Hexachlorocyclopentadiene	ND		5.1
2,4,6-Trichlorophenol	ND		2.0
2,4,5-Trichlorophenol	ND		2.0
2-Chloronaphthalene	ND		2.0
2-Nitroaniline	ND		10
Dimethyl phthalate	ND		5.1
Acenaphthylene	ND		2.0
3-Nitroaniline	ND		5.1
Acenaphthene	ND		2.0
2,4-Dinitrophenol	ND		10
4-Nitrophenol	ND		10
Dibenzofuran	ND		2.0
2,4-Dinitrotoluene	ND		2.0
2,6-Dinitrotoluene	ND		5.1
Diethyl phthalate	ND		5.1
4-Chlorophenyl phenyl ether	ND		5.1
Fluorene	ND		2.0
4-Nitroaniline	ND		10
2-Methyl-4,6-dinitrophenol	ND		10
N-Nitrosodiphenylamine	ND		2.0
4-Bromophenyl phenyl ether	ND		5.1

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-7

Lab Sample ID: 720-18564-3 Date Sampled: 03/17/2009 1115
Client Matrix: Water Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 980 mL
Date Analyzed: 03/25/2009 1510 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Hexachlorobenzene	ND		2.0
Pentachlorophenol	ND		10
Phenanthrene	ND		2.0
Anthracene	ND		2.0
Di-n-butyl phthalate	ND		5.1
Fluoranthene	ND		2.0
Pyrene	ND		2.0
Butyl benzyl phthalate	ND		5.1
3,3'-Dichlorobenzidine	ND		5.1
Benzo[a]anthracene	ND		5.1
Bis(2-ethylhexyl) phthalate	ND		10
Chrysene	ND		2.0
Di-n-octyl phthalate	ND		20
Benzo[b]fluoranthene	ND		2.0
Benzo[a]pyrene	ND		2.0
Benzo[k]fluoranthene	ND		2.0
Indeno[1,2,3-cd]pyrene	ND		2.0
Benzo[g,h,i]perylene	ND		2.0
Benzoic acid	ND		10
Azobenzene	ND		2.0
Dibenz(a,h)anthracene	ND		2.0

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	76	6 - 98
2-Fluorobiphenyl	75	6 - 103
Terphenyl-d14	85	36 - 106
2-Fluorophenol	45	1 - 66
Phenol-d5	30	1 - 47
2,4,6-Tribromophenol	82	22 - 124

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-6

Lab Sample ID: 720-18564-4 Date Sampled: 03/17/2009 1055
Client Matrix: Water Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 950 mL
Date Analyzed: 03/25/2009 1544 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Phenol	ND		2.1
Bis(2-chloroethyl)ether	ND		2.1
2-Chlorophenol	ND		2.1
1,3-Dichlorobenzene	ND		2.1
1,4-Dichlorobenzene	ND		2.1
Benzyl alcohol	ND		5.3
1,2-Dichlorobenzene	ND		2.1
2-Methylphenol	ND		2.1
4-Methylphenol	ND		2.1
N-Nitrosodi-n-propylamine	ND		2.1
Hexachloroethane	ND		2.1
Nitrobenzene	ND		2.1
Isophorone	ND		2.1
2-Nitrophenol	ND		2.1
2,4-Dimethylphenol	ND		2.1
Bis(2-chloroethoxy)methane	ND		5.3
2,4-Dichlorophenol	ND		5.3
1,2,4-Trichlorobenzene	ND		2.1
Naphthalene	ND		2.1
4-Chloroaniline	ND		2.1
Hexachlorobutadiene	ND		2.1
4-Chloro-3-methylphenol	ND		5.3
2-Methylnaphthalene	ND		2.1
Hexachlorocyclopentadiene	ND		5.3
2,4,6-Trichlorophenol	ND		2.1
2,4,5-Trichlorophenol	ND		2.1
2-Chloronaphthalene	ND		2.1
2-Nitroaniline	ND		11
Dimethyl phthalate	ND		5.3
Acenaphthylene	ND		2.1
3-Nitroaniline	ND		5.3
Acenaphthene	ND		2.1
2,4-Dinitrophenol	ND		11
4-Nitrophenol	ND		11
Dibenzofuran	ND		2.1
2,4-Dinitrotoluene	ND		2.1
2,6-Dinitrotoluene	ND		5.3
Diethyl phthalate	ND		5.3
4-Chlorophenyl phenyl ether	ND		5.3
Fluorene	ND		2.1
4-Nitroaniline	ND		11
2-Methyl-4,6-dinitrophenol	ND		11
N-Nitrosodiphenylamine	ND		2.1
4-Bromophenyl phenyl ether	ND		5.3

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-6

Lab Sample ID: 720-18564-4 Date Sampled: 03/17/2009 1055
Client Matrix: Water Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 950 mL
Date Analyzed: 03/25/2009 1544 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Hexachlorobenzene	ND		2.1
Pentachlorophenol	ND		11
Phenanthrene	ND		2.1
Anthracene	ND		2.1
Di-n-butyl phthalate	ND		5.3
Fluoranthene	ND		2.1
Pyrene	ND		2.1
Butyl benzyl phthalate	ND		5.3
3,3'-Dichlorobenzidine	ND		5.3
Benzo[a]anthracene	ND		5.3
Bis(2-ethylhexyl) phthalate	ND		11
Chrysene	ND		2.1
Di-n-octyl phthalate	ND		21
Benzo[b]fluoranthene	ND		2.1
Benzo[a]pyrene	ND		2.1
Benzo[k]fluoranthene	ND		2.1
Indeno[1,2,3-cd]pyrene	ND		2.1
Benzo[g,h,i]perylene	ND		2.1
Benzoic acid	ND		11
Azobenzene	ND		2.1
Dibenz(a,h)anthracene	ND		2.1

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	53	6 - 98
2-Fluorobiphenyl	51	6 - 103
Terphenyl-d14	66	36 - 106
2-Fluorophenol	30	1 - 66
Phenol-d5	20	1 - 47
2,4,6-Tribromophenol	52	22 - 124

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-8

Lab Sample ID: 720-18564-5 Date Sampled: 03/17/2009 1230
Client Matrix: Water Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 980 mL
Date Analyzed: 03/25/2009 1617 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Phenol	ND		2.0
Bis(2-chloroethyl)ether	ND		2.0
2-Chlorophenol	ND		2.0
1,3-Dichlorobenzene	ND		2.0
1,4-Dichlorobenzene	ND		2.0
Benzyl alcohol	ND		5.1
1,2-Dichlorobenzene	ND		2.0
2-Methylphenol	ND		2.0
4-Methylphenol	ND		2.0
N-Nitrosodi-n-propylamine	ND		2.0
Hexachloroethane	ND		2.0
Nitrobenzene	ND		2.0
Isophorone	ND		2.0
2-Nitrophenol	ND		2.0
2,4-Dimethylphenol	ND		2.0
Bis(2-chloroethoxy)methane	ND		5.1
2,4-Dichlorophenol	ND		5.1
1,2,4-Trichlorobenzene	ND		2.0
Naphthalene	ND		2.0
4-Chloroaniline	ND		2.0
Hexachlorobutadiene	ND		2.0
4-Chloro-3-methylphenol	ND		5.1
2-Methylnaphthalene	ND		2.0
Hexachlorocyclopentadiene	ND		5.1
2,4,6-Trichlorophenol	ND		2.0
2,4,5-Trichlorophenol	ND		2.0
2-Chloronaphthalene	ND		2.0
2-Nitroaniline	ND		10
Dimethyl phthalate	ND		5.1
Acenaphthylene	ND		2.0
3-Nitroaniline	ND		5.1
Acenaphthene	ND		2.0
2,4-Dinitrophenol	ND		10
4-Nitrophenol	ND		10
Dibenzofuran	ND		2.0
2,4-Dinitrotoluene	ND		2.0
2,6-Dinitrotoluene	ND		5.1
Diethyl phthalate	ND		5.1
4-Chlorophenyl phenyl ether	ND		5.1
Fluorene	ND		2.0
4-Nitroaniline	ND		10
2-Methyl-4,6-dinitrophenol	ND		10
N-Nitrosodiphenylamine	ND		2.0
4-Bromophenyl phenyl ether	ND		5.1

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-8

Lab Sample ID: 720-18564-5 Date Sampled: 03/17/2009 1230
Client Matrix: Water Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 980 mL
Date Analyzed: 03/25/2009 1617 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Hexachlorobenzene	ND		2.0
Pentachlorophenol	ND		10
Phenanthrene	ND		2.0
Anthracene	ND		2.0
Di-n-butyl phthalate	ND		5.1
Fluoranthene	ND		2.0
Pyrene	ND		2.0
Butyl benzyl phthalate	ND		5.1
3,3'-Dichlorobenzidine	ND		5.1
Benzo[a]anthracene	ND		5.1
Bis(2-ethylhexyl) phthalate	ND		10
Chrysene	ND		2.0
Di-n-octyl phthalate	ND		20
Benzo[b]fluoranthene	ND		2.0
Benzo[a]pyrene	ND		2.0
Benzo[k]fluoranthene	ND		2.0
Indeno[1,2,3-cd]pyrene	ND		2.0
Benzo[g,h,i]perylene	ND		2.0
Benzoic acid	ND		10
Azobenzene	ND		2.0
Dibenz(a,h)anthracene	ND		2.0

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	63	6 - 98
2-Fluorobiphenyl	63	6 - 103
Terphenyl-d14	71	36 - 106
2-Fluorophenol	35	1 - 66
Phenol-d5	24	1 - 47
2,4,6-Tribromophenol	71	22 - 124

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-2

Lab Sample ID: 720-18564-6 Date Sampled: 03/17/2009 1212
Client Matrix: Water Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 910 mL
Date Analyzed: 03/25/2009 1650 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Phenol	ND		2.2
Bis(2-chloroethyl)ether	ND		2.2
2-Chlorophenol	ND		2.2
1,3-Dichlorobenzene	ND		2.2
1,4-Dichlorobenzene	ND		2.2
Benzyl alcohol	ND		5.5
1,2-Dichlorobenzene	ND		2.2
2-Methylphenol	ND		2.2
4-Methylphenol	ND		2.2
N-Nitrosodi-n-propylamine	ND		2.2
Hexachloroethane	ND		2.2
Nitrobenzene	ND		2.2
Isophorone	ND		2.2
2-Nitrophenol	ND		2.2
2,4-Dimethylphenol	ND		2.2
Bis(2-chloroethoxy)methane	ND		5.5
2,4-Dichlorophenol	ND		5.5
1,2,4-Trichlorobenzene	ND		2.2
Naphthalene	ND		2.2
4-Chloroaniline	ND		2.2
Hexachlorobutadiene	ND		2.2
4-Chloro-3-methylphenol	ND		5.5
2-Methylnaphthalene	ND		2.2
Hexachlorocyclopentadiene	ND		5.5
2,4,6-Trichlorophenol	ND		2.2
2,4,5-Trichlorophenol	ND		2.2
2-Chloronaphthalene	ND		2.2
2-Nitroaniline	ND		11
Dimethyl phthalate	ND		5.5
Acenaphthylene	ND		2.2
3-Nitroaniline	ND		5.5
Acenaphthene	ND		2.2
2,4-Dinitrophenol	ND		11
4-Nitrophenol	ND		11
Dibenzofuran	ND		2.2
2,4-Dinitrotoluene	ND		2.2
2,6-Dinitrotoluene	ND		5.5
Diethyl phthalate	ND		5.5
4-Chlorophenyl phenyl ether	ND		5.5
Fluorene	ND		2.2
4-Nitroaniline	ND		11
2-Methyl-4,6-dinitrophenol	ND		11
N-Nitrosodiphenylamine	ND		2.2
4-Bromophenyl phenyl ether	ND		5.5

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-2

Lab Sample ID: 720-18564-6 Date Sampled: 03/17/2009 1212
Client Matrix: Water Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 910 mL
Date Analyzed: 03/25/2009 1650 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Hexachlorobenzene	ND		2.2
Pentachlorophenol	ND		11
Phenanthrene	ND		2.2
Anthracene	ND		2.2
Di-n-butyl phthalate	ND		5.5
Fluoranthene	ND		2.2
Pyrene	ND		2.2
Butyl benzyl phthalate	ND		5.5
3,3'-Dichlorobenzidine	ND		5.5
Benzo[a]anthracene	ND		5.5
Bis(2-ethylhexyl) phthalate	ND		11
Chrysene	ND		2.2
Di-n-octyl phthalate	ND		22
Benzo[b]fluoranthene	ND		2.2
Benzo[a]pyrene	ND		2.2
Benzo[k]fluoranthene	ND		2.2
Indeno[1,2,3-cd]pyrene	ND		2.2
Benzo[g,h,i]perylene	ND		2.2
Benzoic acid	ND		11
Azobenzene	ND		2.2
Dibenz(a,h)anthracene	ND		2.2

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	62	6 - 98
2-Fluorobiphenyl	59	6 - 103
Terphenyl-d14	70	36 - 106
2-Fluorophenol	38	1 - 66
Phenol-d5	27	1 - 47
2,4,6-Tribromophenol	66	22 - 124

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-10

Lab Sample ID: 720-18564-7 Date Sampled: 03/17/2009 1449
Client Matrix: Water Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 960 mL
Date Analyzed: 03/25/2009 1724 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Phenol	ND		2.1
Bis(2-chloroethyl)ether	ND		2.1
2-Chlorophenol	ND		2.1
1,3-Dichlorobenzene	ND		2.1
1,4-Dichlorobenzene	ND		2.1
Benzyl alcohol	ND		5.2
1,2-Dichlorobenzene	ND		2.1
2-Methylphenol	ND		2.1
4-Methylphenol	ND		2.1
N-Nitrosodi-n-propylamine	ND		2.1
Hexachloroethane	ND		2.1
Nitrobenzene	ND		2.1
Isophorone	ND		2.1
2-Nitrophenol	ND		2.1
2,4-Dimethylphenol	ND		2.1
Bis(2-chloroethoxy)methane	ND		5.2
2,4-Dichlorophenol	ND		5.2
1,2,4-Trichlorobenzene	ND		2.1
Naphthalene	ND		2.1
4-Chloroaniline	ND		2.1
Hexachlorobutadiene	ND		2.1
4-Chloro-3-methylphenol	ND		5.2
2-Methylnaphthalene	ND		2.1
Hexachlorocyclopentadiene	ND		5.2
2,4,6-Trichlorophenol	ND		2.1
2,4,5-Trichlorophenol	ND		2.1
2-Chloronaphthalene	ND		2.1
2-Nitroaniline	ND		10
Dimethyl phthalate	ND		5.2
Acenaphthylene	ND		2.1
3-Nitroaniline	ND		5.2
Acenaphthene	ND		2.1
2,4-Dinitrophenol	ND		10
4-Nitrophenol	ND		10
Dibenzofuran	ND		2.1
2,4-Dinitrotoluene	ND		2.1
2,6-Dinitrotoluene	ND		5.2
Diethyl phthalate	ND		5.2
4-Chlorophenyl phenyl ether	ND		5.2
Fluorene	ND		2.1
4-Nitroaniline	ND		10
2-Methyl-4,6-dinitrophenol	ND		10
N-Nitrosodiphenylamine	ND		2.1
4-Bromophenyl phenyl ether	ND		5.2

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-10

Lab Sample ID: 720-18564-7
Client Matrix: Water

Date Sampled: 03/17/2009 1449
Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/25/2009 1724
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\720-
Initial Weight/Volume: 960 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Hexachlorobenzene	ND		2.1
Pentachlorophenol	ND		10
Phenanthrene	ND		2.1
Anthracene	ND		2.1
Di-n-butyl phthalate	ND		5.2
Fluoranthene	ND		2.1
Pyrene	ND		2.1
Butyl benzyl phthalate	ND		5.2
3,3'-Dichlorobenzidine	ND		5.2
Benzo[a]anthracene	ND		5.2
Bis(2-ethylhexyl) phthalate	ND		10
Chrysene	ND		2.1
Di-n-octyl phthalate	ND		21
Benzo[b]fluoranthene	ND		2.1
Benzo[a]pyrene	ND		2.1
Benzo[k]fluoranthene	ND		2.1
Indeno[1,2,3-cd]pyrene	ND		2.1
Benzo[g,h,i]perylene	ND		2.1
Benzoic acid	ND		10
Azobenzene	ND		2.1
Dibenz(a,h)anthracene	ND		2.1

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	74	6 - 98
2-Fluorobiphenyl	69	6 - 103
Terphenyl-d14	76	36 - 106
2-Fluorophenol	44	1 - 66
Phenol-d5	32	1 - 47
2,4,6-Tribromophenol	75	22 - 124

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-8-DUP

Lab Sample ID: 720-18564-8FD
Client Matrix: Water

Date Sampled: 03/17/2009 1245
Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/25/2009 1757
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\720-
Initial Weight/Volume: 970 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Phenol	ND		2.1
Bis(2-chloroethyl)ether	ND		2.1
2-Chlorophenol	ND		2.1
1,3-Dichlorobenzene	ND		2.1
1,4-Dichlorobenzene	ND		2.1
Benzyl alcohol	ND		5.2
1,2-Dichlorobenzene	ND		2.1
2-Methylphenol	ND		2.1
4-Methylphenol	ND		2.1
N-Nitrosodi-n-propylamine	ND		2.1
Hexachloroethane	ND		2.1
Nitrobenzene	ND		2.1
Isophorone	ND		2.1
2-Nitrophenol	ND		2.1
2,4-Dimethylphenol	ND		2.1
Bis(2-chloroethoxy)methane	ND		5.2
2,4-Dichlorophenol	ND		5.2
1,2,4-Trichlorobenzene	ND		2.1
Naphthalene	ND		2.1
4-Chloroaniline	ND		2.1
Hexachlorobutadiene	ND		2.1
4-Chloro-3-methylphenol	ND		5.2
2-Methylnaphthalene	ND		2.1
Hexachlorocyclopentadiene	ND		5.2
2,4,6-Trichlorophenol	ND		2.1
2,4,5-Trichlorophenol	ND		2.1
2-Chloronaphthalene	ND		2.1
2-Nitroaniline	ND		10
Dimethyl phthalate	ND		5.2
Acenaphthylene	ND		2.1
3-Nitroaniline	ND		5.2
Acenaphthene	ND		2.1
2,4-Dinitrophenol	ND		10
4-Nitrophenol	ND		10
Dibenzofuran	ND		2.1
2,4-Dinitrotoluene	ND		2.1
2,6-Dinitrotoluene	ND		5.2
Diethyl phthalate	ND		5.2
4-Chlorophenyl phenyl ether	ND		5.2
Fluorene	ND		2.1
4-Nitroaniline	ND		10
2-Methyl-4,6-dinitrophenol	ND		10
N-Nitrosodiphenylamine	ND		2.1
4-Bromophenyl phenyl ether	ND		5.2

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-8-DUP

Lab Sample ID: 720-18564-8FD
Client Matrix: Water

Date Sampled: 03/17/2009 1245
Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/25/2009 1757
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\720-
Initial Weight/Volume: 970 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Hexachlorobenzene	ND		2.1
Pentachlorophenol	ND		10
Phenanthrene	ND		2.1
Anthracene	ND		2.1
Di-n-butyl phthalate	ND		5.2
Fluoranthene	ND		2.1
Pyrene	ND		2.1
Butyl benzyl phthalate	ND		5.2
3,3'-Dichlorobenzidine	ND		5.2
Benzo[a]anthracene	ND		5.2
Bis(2-ethylhexyl) phthalate	ND		10
Chrysene	ND		2.1
Di-n-octyl phthalate	ND		21
Benzo[b]fluoranthene	ND		2.1
Benzo[a]pyrene	ND		2.1
Benzo[k]fluoranthene	ND		2.1
Indeno[1,2,3-cd]pyrene	ND		2.1
Benzo[g,h,i]perylene	ND		2.1
Benzoic acid	ND		10
Azobenzene	ND		2.1
Dibenz(a,h)anthracene	ND		2.1

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	69	6 - 98
2-Fluorobiphenyl	64	6 - 103
Terphenyl-d14	75	36 - 106
2-Fluorophenol	40	1 - 66
Phenol-d5	27	1 - 47
2,4,6-Tribromophenol	74	22 - 124

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: FB-031709

Lab Sample ID: 720-18564-9FB
Client Matrix: Water

Date Sampled: 03/17/2009 0830
Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/25/2009 1831
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\720-
Initial Weight/Volume: 970 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Phenol	ND		2.1
Bis(2-chloroethyl)ether	ND		2.1
2-Chlorophenol	ND		2.1
1,3-Dichlorobenzene	ND		2.1
1,4-Dichlorobenzene	ND		2.1
Benzyl alcohol	ND		5.2
1,2-Dichlorobenzene	ND		2.1
2-Methylphenol	ND		2.1
4-Methylphenol	ND		2.1
N-Nitrosodi-n-propylamine	ND		2.1
Hexachloroethane	ND		2.1
Nitrobenzene	ND		2.1
Isophorone	ND		2.1
2-Nitrophenol	ND		2.1
2,4-Dimethylphenol	ND		2.1
Bis(2-chloroethoxy)methane	ND		5.2
2,4-Dichlorophenol	ND		5.2
1,2,4-Trichlorobenzene	ND		2.1
Naphthalene	ND		2.1
4-Chloroaniline	ND		2.1
Hexachlorobutadiene	ND		2.1
4-Chloro-3-methylphenol	ND		5.2
2-Methylnaphthalene	ND		2.1
Hexachlorocyclopentadiene	ND		5.2
2,4,6-Trichlorophenol	ND		2.1
2,4,5-Trichlorophenol	ND		2.1
2-Chloronaphthalene	ND		2.1
2-Nitroaniline	ND		10
Dimethyl phthalate	ND		5.2
Acenaphthylene	ND		2.1
3-Nitroaniline	ND		5.2
Acenaphthene	ND		2.1
2,4-Dinitrophenol	ND		10
4-Nitrophenol	ND		10
Dibenzofuran	ND		2.1
2,4-Dinitrotoluene	ND		2.1
2,6-Dinitrotoluene	ND		5.2
Diethyl phthalate	ND		5.2
4-Chlorophenyl phenyl ether	ND		5.2
Fluorene	ND		2.1
4-Nitroaniline	ND		10
2-Methyl-4,6-dinitrophenol	ND		10
N-Nitrosodiphenylamine	ND		2.1
4-Bromophenyl phenyl ether	ND		5.2

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: FB-031709

Lab Sample ID: 720-18564-9FB
Client Matrix: Water

Date Sampled: 03/17/2009 0830
Date Received: 03/17/2009 1545

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/25/2009 1831
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\720-
Initial Weight/Volume: 970 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Hexachlorobenzene	ND		2.1
Pentachlorophenol	ND		10
Phenanthrene	ND		2.1
Anthracene	ND		2.1
Di-n-butyl phthalate	ND		5.2
Fluoranthene	ND		2.1
Pyrene	ND		2.1
Butyl benzyl phthalate	ND		5.2
3,3'-Dichlorobenzidine	ND		5.2
Benzo[a]anthracene	ND		5.2
Bis(2-ethylhexyl) phthalate	ND		10
Chrysene	ND		2.1
Di-n-octyl phthalate	ND		21
Benzo[b]fluoranthene	ND		2.1
Benzo[a]pyrene	ND		2.1
Benzo[k]fluoranthene	ND		2.1
Indeno[1,2,3-cd]pyrene	ND		2.1
Benzo[g,h,i]perylene	ND		2.1
Benzoic acid	ND		10
Azobenzene	ND		2.1
Dibenz(a,h)anthracene	ND		2.1

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	60	6 - 98
2-Fluorobiphenyl	56	6 - 103
Terphenyl-d14	75	36 - 106
2-Fluorophenol	37	1 - 66
Phenol-d5	25	1 - 47
2,4,6-Tribromophenol	66	22 - 124

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-5

Lab Sample ID: 720-18564-1
Client Matrix: Water

Date Sampled: 03/17/2009 0935
Date Received: 03/17/2009 1545

8015B Diesel Range Organics (DRO) (GC)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/25/2009 0959
Date Prepared: 03/19/2009 1142

Analysis Batch: 720-47867
Prep Batch: 720-47825

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		300

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	95	49 - 120

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-9

Lab Sample ID: 720-18564-2
Client Matrix: Water

Date Sampled: 03/17/2009 0942
Date Received: 03/17/2009 1545

8015B Diesel Range Organics (DRO) (GC)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/25/2009 1026
Date Prepared: 03/19/2009 1142

Analysis Batch: 720-47867
Prep Batch: 720-47825

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		300

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	94	49 - 120

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-7

Lab Sample ID: 720-18564-3
Client Matrix: Water

Date Sampled: 03/17/2009 1115
Date Received: 03/17/2009 1545

8015B Diesel Range Organics (DRO) (GC)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/25/2009 0932
Date Prepared: 03/19/2009 1142

Analysis Batch: 720-47867
Prep Batch: 720-47825

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		300

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	97	49 - 120

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-6

Lab Sample ID: 720-18564-4
Client Matrix: Water

Date Sampled: 03/17/2009 1055
Date Received: 03/17/2009 1545

8015B Diesel Range Organics (DRO) (GC)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/25/2009 1053
Date Prepared: 03/19/2009 1142

Analysis Batch: 720-47867
Prep Batch: 720-47825

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		300

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	106	49 - 120

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-8

Lab Sample ID: 720-18564-5
Client Matrix: Water

Date Sampled: 03/17/2009 1230
Date Received: 03/17/2009 1545

8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup

Method: 8015B
Preparation: 3510C SGC
Dilution: 1.0
Date Analyzed: 03/28/2009 0423
Date Prepared: 03/26/2009 1703

Analysis Batch: 720-48126
Prep Batch: 720-48051

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 472 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Motor Oil Range Organics [C24-C36]	ND		320
Diesel Range Organics [C9-C24]	ND		53

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	58	31 - 120

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-2

Lab Sample ID: 720-18564-6
Client Matrix: Water

Date Sampled: 03/17/2009 1212
Date Received: 03/17/2009 1545

8015B Diesel Range Organics (DRO) (GC)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/25/2009 1158
Date Prepared: 03/19/2009 1142

Analysis Batch: 720-47867
Prep Batch: 720-47825

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		300

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	93	49 - 120

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-10

Lab Sample ID: 720-18564-7
Client Matrix: Water

Date Sampled: 03/17/2009 1449
Date Received: 03/17/2009 1545

8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup

Method: 8015B
Preparation: 3510C SGC
Dilution: 1.0
Date Analyzed: 03/28/2009 0450
Date Prepared: 03/26/2009 1703

Analysis Batch: 720-48126
Prep Batch: 720-48051

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 446 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Motor Oil Range Organics [C24-C36]	ND		340
Diesel Range Organics [C9-C24]	ND		56

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	1	0 - 5
p-Terphenyl	54	31 - 120

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: MW-8-DUP

Lab Sample ID: 720-18564-8FD
Client Matrix: Water

Date Sampled: 03/17/2009 1245
Date Received: 03/17/2009 1545

8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup

Method: 8015B
Preparation: 3510C SGC
Dilution: 1.0
Date Analyzed: 03/28/2009 0517
Date Prepared: 03/26/2009 1703

Analysis Batch: 720-48126
Prep Batch: 720-48051

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 474 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Motor Oil Range Organics [C24-C36]	ND		320
Diesel Range Organics [C9-C24]	ND		53

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	54	31 - 120

Client: LFR, Inc. Job Number: 720-18564-1

Client Sample ID: FB-031709

Lab Sample ID: 720-18564-9FB
Client Matrix: Water

Date Sampled: 03/17/2009 0830
Date Received: 03/17/2009 1545

8015B Diesel Range Organics (DRO) (GC)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/25/2009 1319
Date Prepared: 03/19/2009 1148

Analysis Batch: 720-47867
Prep Batch: 720-47825

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		300

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	94	49 - 120

DATA REPORTING QUALIFIERS

Client: LFR, Inc. Job Number: 720-18564-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits

Client: LFR, Inc. Job Number: 720-18564-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-47947					
LCS 720-47947/2	Lab Control Spike	T	Water	8260B/CA_LUFT	
LCSD 720-47947/1	Lab Control Spike Duplicate	T	Water	8260B/CA_LUFT	
MB 720-47947/3	Method Blank	T	Water	8260B/CA_LUFT	
720-18564-1	MW-5	T	Water	8260B/CA_LUFT	
720-18564-1MS	Matrix Spike	T	Water	8260B/CA_LUFT	
720-18564-1MSD	Matrix Spike Duplicate	T	Water	8260B/CA_LUFT	
720-18564-2	MW-9	T	Water	8260B/CA_LUFT	
720-18564-3	MW-7	T	Water	8260B/CA_LUFT	
720-18564-4	MW-6	T	Water	8260B/CA_LUFT	
720-18564-5	MW-8	T	Water	8260B/CA_LUFT	
720-18564-6	MW-2	T	Water	8260B/CA_LUFT	
720-18564-7	MW-10	T	Water	8260B/CA_LUFT	
720-18564-8FD	MW-8-DUP	T	Water	8260B/CA_LUFT	
720-18564-9FB	FB-031709	T	Water	8260B/CA_LUFT	

Report Basis
T = Total

Client: LFR, Inc. Job Number: 720-18564-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 720-47916					
LCS 720-47916/2-A	Lab Control Spike	T	Water	3510C	
LCSD 720-47916/3-A	Lab Control Spike Duplicate	T	Water	3510C	
MB 720-47916/1-A	Method Blank	T	Water	3510C	
720-18564-1	MW-5	T	Water	3510C	
720-18564-2	MW-9	T	Water	3510C	
720-18564-3	MW-7	T	Water	3510C	
720-18564-4	MW-6	T	Water	3510C	
720-18564-5	MW-8	T	Water	3510C	
720-18564-6	MW-2	T	Water	3510C	
720-18564-7	MW-10	T	Water	3510C	
720-18564-8FD	MW-8-DUP	T	Water	3510C	
720-18564-9FB	FB-031709	T	Water	3510C	
Analysis Batch:720-48005					
LCS 720-47916/2-A	Lab Control Spike	T	Water	8270C	720-47916
LCSD 720-47916/3-A	Lab Control Spike Duplicate	T	Water	8270C	720-47916
MB 720-47916/1-A	Method Blank	T	Water	8270C	720-47916
720-18564-1	MW-5	T	Water	8270C	720-47916
720-18564-2	MW-9	T	Water	8270C	720-47916
720-18564-3	MW-7	T	Water	8270C	720-47916
720-18564-4	MW-6	T	Water	8270C	720-47916
720-18564-5	MW-8	T	Water	8270C	720-47916
720-18564-6	MW-2	T	Water	8270C	720-47916
720-18564-7	MW-10	T	Water	8270C	720-47916
720-18564-8FD	MW-8-DUP	T	Water	8270C	720-47916
720-18564-9FB	FB-031709	T	Water	8270C	720-47916

Report Basis
T = Total

Client: LFR, Inc. Job Number: 720-18564-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-47825					
LCS 720-47825/2-A	Lab Control Spike	T	Water	3510C	
LCSD 720-47825/3-A	Lab Control Spike Duplicate	T	Water	3510C	
MB 720-47825/1-A	Method Blank	T	Water	3510C	
720-18564-1	MW-5	T	Water	3510C	
720-18564-2	MW-9	T	Water	3510C	
720-18564-3	MW-7	T	Water	3510C	
720-18564-4	MW-6	T	Water	3510C	
720-18564-6	MW-2	T	Water	3510C	
720-18564-9FB	FB-031709	T	Water	3510C	
Analysis Batch:720-47867					
LCS 720-47825/2-A	Lab Control Spike	T	Water	8015B	720-47825
LCSD 720-47825/3-A	Lab Control Spike Duplicate	T	Water	8015B	720-47825
MB 720-47825/1-A	Method Blank	T	Water	8015B	720-47825
720-18564-1	MW-5	T	Water	8015B	720-47825
720-18564-2	MW-9	T	Water	8015B	720-47825
720-18564-3	MW-7	T	Water	8015B	720-47825
720-18564-4	MW-6	T	Water	8015B	720-47825
720-18564-6	MW-2	T	Water	8015B	720-47825
720-18564-9FB	FB-031709	T	Water	8015B	720-47825
Prep Batch: 720-48051					
LCS 720-48051/2-A	Lab Control Spike	A	Water	3510C SGC	
LCSD 720-48051/3-A	Lab Control Spike Duplicate	A	Water	3510C SGC	
MB 720-48051/1-A	Method Blank	A	Water	3510C SGC	
720-18564-5	MW-8	A	Water	3510C SGC	
720-18564-7	MW-10	A	Water	3510C SGC	
720-18564-8FD	MW-8-DUP	A	Water	3510C SGC	
Analysis Batch:720-48126					
LCS 720-48051/2-A	Lab Control Spike	A	Water	8015B	720-48051
LCSD 720-48051/3-A	Lab Control Spike Duplicate	A	Water	8015B	720-48051
MB 720-48051/1-A	Method Blank	A	Water	8015B	720-48051
720-18564-5	MW-8	A	Water	8015B	720-48051
720-18564-7	MW-10	A	Water	8015B	720-48051
720-18564-8FD	MW-8-DUP	A	Water	8015B	720-48051

Report Basis
A = Silica Gel Cleanup
T = Total

Client: LFR, Inc.

Job Number: 720-18564-1

Method Blank - Batch: 720-47947

Method: 8260B/CA_LUFTMS
Preparation: 5030B

Lab Sample ID: MB 720-47947/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 0955
Date Prepared: 03/23/2009 0955

Analysis Batch: 720-47947
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: e:\data\2009\200903\03230
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
EDB	ND		0.50
DIPE	ND		1.0
TBA	ND		5.0
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	93	78 - 112
1,2-Dichloroethane-d4 (Surr)	87	67 - 126

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

Client: LFR, Inc. Job Number: 720-18564-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-47947

Method: 8260B/CA_LUFTMS
Preparation: 5030B

LCS Lab Sample ID: LCS 720-47947/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1028
Date Prepared: 03/23/2009 1028

Analysis Batch: 720-47947
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: e:\data\2009\200903\0323(
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-47947/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1052
Date Prepared: 03/23/2009 1052

Analysis Batch: 720-47947
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: e:\data\2009\200903\032309
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	93	90	74 - 112	4	20		
Gasoline Range Organics (GRO)-C5-C12	69	66	42 - 80	4	20		
Toluene	76	78	65 - 98	2	20		
MTBE	88	80	69 - 104	8	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	93	92	78 - 112
1,2-Dichloroethane-d4 (Surr)	90	80	67 - 126

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

Client: LFR, Inc. Job Number: 720-18564-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-47947

Method: 8260B/CA_LUFTMS
Preparation: 5030B

MS Lab Sample ID:	720-18564-1	Analysis Batch: 720-47947	Instrument ID: Varian 3900A
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: e:\data\2009\200903\032
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/23/2009 1517		Final Weight/Volume: 10 mL
Date Prepared:	03/23/2009 1517		

MSD Lab Sample ID:	720-18564-1	Analysis Batch: 720-47947	Instrument ID: Varian 3900A
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: e:\data\2009\200903\03230
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/23/2009 1539		Final Weight/Volume: 10 mL
Date Prepared:	03/23/2009 1539		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	87	89	58 - 134	2	20		
Gasoline Range Organics (GRO)-C5-C12	59	60	43 - 95	1	20		
Toluene	70	73	72 - 129	5	20	F	
MTBE	89	84	22 - 185	5	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	93	90	78 - 112
1,2-Dichloroethane-d4 (Surr)	91	86	67 - 126

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

Client: LFR, Inc. Job Number: 720-18564-1

Method Blank - Batch: 720-47916

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 720-47916/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1149
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\mb
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	RL
Phenol	ND		2.0
Bis(2-chloroethyl)ether	ND		2.0
2-Chlorophenol	ND		2.0
1,3-Dichlorobenzene	ND		2.0
1,4-Dichlorobenzene	ND		2.0
Benzyl alcohol	ND		5.0
1,2-Dichlorobenzene	ND		2.0
2-Methylphenol	ND		2.0
4-Methylphenol	ND		2.0
N-Nitrosodi-n-propylamine	ND		2.0
Hexachloroethane	ND		2.0
Nitrobenzene	ND		2.0
Isophorone	ND		2.0
2-Nitrophenol	ND		2.0
2,4-Dimethylphenol	ND		2.0
Bis(2-chloroethoxy)methane	ND		5.0
2,4-Dichlorophenol	ND		5.0
1,2,4-Trichlorobenzene	ND		2.0
Naphthalene	ND		2.0
4-Chloroaniline	ND		2.0
Hexachlorobutadiene	ND		2.0
4-Chloro-3-methylphenol	ND		5.0
2-Methylnaphthalene	ND		2.0
Hexachlorocyclopentadiene	ND		5.0
2,4,6-Trichlorophenol	ND		2.0
2,4,5-Trichlorophenol	ND		2.0
2-Chloronaphthalene	ND		2.0
2-Nitroaniline	ND		10
Dimethyl phthalate	ND		5.0
Acenaphthylene	ND		2.0
3-Nitroaniline	ND		5.0
Acenaphthene	ND		2.0
2,4-Dinitrophenol	ND		10
4-Nitrophenol	ND		10
Dibenzofuran	ND		2.0
2,4-Dinitrotoluene	ND		2.0
2,6-Dinitrotoluene	ND		5.0
Diethyl phthalate	ND		5.0
4-Chlorophenyl phenyl ether	ND		5.0
Fluorene	ND		2.0
4-Nitroaniline	ND		10

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

Client: LFR, Inc.

Job Number: 720-18564-1

Method Blank - Batch: 720-47916

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 720-47916/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1149
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\mb
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	RL
2-Methyl-4,6-dinitrophenol	ND		10
N-Nitrosodiphenylamine	ND		2.0
4-Bromophenyl phenyl ether	ND		5.0
Hexachlorobenzene	ND		2.0
Pentachlorophenol	ND		10
Phenanthrene	ND		2.0
Anthracene	ND		2.0
Di-n-butyl phthalate	ND		5.0
Fluoranthene	ND		2.0
Pyrene	ND		2.0
Butyl benzyl phthalate	ND		5.0
3,3'-Dichlorobenzidine	ND		5.0
Benzo[a]anthracene	ND		5.0
Bis(2-ethylhexyl) phthalate	ND		10
Chrysene	ND		2.0
Di-n-octyl phthalate	ND		20
Benzo[b]fluoranthene	ND		2.0
Benzo[a]pyrene	ND		2.0
Benzo[k]fluoranthene	ND		2.0
Indeno[1,2,3-cd]pyrene	ND		2.0
Benzo[g,h,i]perylene	ND		2.0
Benzoic acid	ND		10
Azobenzene	ND		2.0
Dibenz(a,h)anthracene	ND		2.0

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	72	6 - 98
2-Fluorobiphenyl	69	6 - 103
Terphenyl-d14	84	36 - 106
2-Fluorophenol	46	1 - 66
Phenol-d5	32	1 - 47
2,4,6-Tribromophenol	74	22 - 124

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

Client: LFR, Inc. Job Number: 720-18564-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-47916

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 720-47916/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1042
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\LC
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

LCSD Lab Sample ID: LCSD 720-47916/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1116
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\LCS
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Phenol	31	38	10 - 49	22	35		
Bis(2-chloroethyl)ether	58	71	22 - 113	21	35		
2-Chlorophenol	60	76	19 - 104	24	25		
1,3-Dichlorobenzene	62	70	18 - 95	13	35		
1,4-Dichlorobenzene	54	67	17 - 82	22	30		
Benzyl alcohol	60	75	21 - 94	22	35		
1,2-Dichlorobenzene	64	71	20 - 89	10	35		
2-Methylphenol	58	70	18 - 100	19	35		
4-Methylphenol	51	62	16 - 93	19	35		
N-Nitrosodi-n-propylamine	64	81	34 - 108	23	34		
Hexachloroethane	64	75	4 - 87	16	35		
Nitrobenzene	74	96	27 - 117	26	35		
Isophorone	79	95	42 - 118	19	35		
2-Nitrophenol	67	82	34 - 107	20	35		
2,4-Dimethylphenol	81	98	42 - 122	19	35		
Bis(2-chloroethoxy)methane	65	77	37 - 110	18	35		
2,4-Dichlorophenol	67	81	39 - 107	20	35		
1,2,4-Trichlorobenzene	62	74	20 - 95	17	35		
Naphthalene	65	80	22 - 99	21	35		
4-Chloroaniline	45	54	10 - 80	17	35		
Hexachlorobutadiene	52	66	3 - 101	24	35		
4-Chloro-3-methylphenol	74	88	22 - 147	17	31		
2-Methylnaphthalene	64	77	10 - 130	19	35		
Hexachlorocyclopentadiene	65	79	21 - 101	19	35		
2,4,6-Trichlorophenol	72	81	31 - 118	12	35		
2,4,5-Trichlorophenol	71	83	35 - 112	16	35		
2-Chloronaphthalene	63	79	26 - 106	22	35		
2-Nitroaniline	72	86	31 - 106	18	35		
Dimethyl phthalate	72	88	47 - 117	20	35		
Acenaphthylene	83	103	33 - 128	22	35		
3-Nitroaniline	71	85	40 - 107	18	35		
Acenaphthene	75	81	31 - 109	8	30		

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

Client: LFR, Inc. Job Number: 720-18564-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-47916

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 720-47916/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1042
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\LC
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

LCSD Lab Sample ID: LCSD 720-47916/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1116
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\LCS
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2,4-Dinitrophenol	67	76	51 - 102	13	35		
4-Nitrophenol	42	48	26 - 63	13	35		
Dibenzofuran	68	79	42 - 97	14	35		
2,4-Dinitrotoluene	77	92	52 - 113	18	35		
2,6-Dinitrotoluene	77	83	50 - 115	8	35		
Diethyl phthalate	76	89	54 - 111	16	35		
4-Chlorophenyl phenyl ether	73	84	40 - 110	14	35		
Fluorene	71	85	37 - 104	17	35		
4-Nitroaniline	79	89	56 - 116	12	35		
2-Methyl-4,6-dinitrophenol	66	82	47 - 114	21	35		
N-Nitrosodiphenylamine	80	96	56 - 123	19	35		
4-Bromophenyl phenyl ether	76	95	52 - 111	22	35		
Hexachlorobenzene	78	93	61 - 104	18	35		
Pentachlorophenol	67	80	55 - 107	18	35		
Phenanthrene	75	91	56 - 110	19	35		
Anthracene	80	94	58 - 114	16	35		
Di-n-butyl phthalate	86	104	56 - 114	19	35		
Fluoranthene	83	96	60 - 121	15	35		
Pyrene	76	83	56 - 91	10	35		
Butyl benzyl phthalate	73	82	37 - 100	12	35		
3,3'-Dichlorobenzidine	59	68	37 - 111	15	35		
Benzo[a]anthracene	67	79	50 - 112	16	35		
Bis(2-ethylhexyl) phthalate	77	88	59 - 111	13	35		
Chrysene	73	77	56 - 94	4	35		
Di-n-octyl phthalate	71	83	47 - 118	15	35		
Benzo[b]fluoranthene	75	80	55 - 110	7	35		
Benzo[a]pyrene	66	75	59 - 103	12	35		
Benzo[k]fluoranthene	73	89	55 - 110	20	35		
Indeno[1,2,3-cd]pyrene	78	88	63 - 126	11	35		
Benzo[g,h,i]perylene	79	89	10 - 140	12	35		
Benzoic acid	28	30	7 - 46	8	35		
Azobenzene	76	87	49 - 102	13	35		

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

Client: LFR, Inc. Job Number: 720-18564-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-47916

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 720-47916/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1042
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\LC
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

LCSD Lab Sample ID: LCSD 720-47916/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1116
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\LCS
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dibenz(a,h)anthracene	69	82	10 - 130	17	35		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Nitrobenzene-d5	70	86	6 - 98
2-Fluorobiphenyl	64	76	6 - 103
Terphenyl-d14	74	83	36 - 106
2-Fluorophenol	40	47	1 - 66
Phenol-d5	29	35	1 - 47
2,4,6-Tribromophenol	75	83	22 - 124

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

Client: LFR, Inc. Job Number: 720-18564-1

Method Blank - Batch: 720-47825

Method: 8015B
Preparation: 3510C

Lab Sample ID: MB 720-47825/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0549
Date Prepared: 03/19/2009 1142

Analysis Batch: 720-47867
Prep Batch: 720-47825
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		300

Surrogate	% Rec	Acceptance Limits
p-Terphenyl	98	49 - 120

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-47825

Method: 8015B
Preparation: 3510C

LCS Lab Sample ID: LCS 720-47825/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0455
Date Prepared: 03/19/2009 1142

Analysis Batch: 720-47867
Prep Batch: 720-47825
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-47825/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0522
Date Prepared: 03/19/2009 1142

Analysis Batch: 720-47867
Prep Batch: 720-47825
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	103	97	47 - 111	6	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
p-Terphenyl	108	103	49 - 120

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

Client: LFR, Inc. Job Number: 720-18564-1

Method Blank - Batch: 720-48051

Method: 8015B
Preparation: 3510C SGC
Silica Gel Cleanup

Lab Sample ID: MB 720-48051/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/28/2009 0328
Date Prepared: 03/26/2009 1703

Analysis Batch: 720-48126
Prep Batch: 720-48051
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C9-C24]	ND		50
Motor Oil Range Organics [C24-C36]	ND		300

Surrogate	% Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	86	31 - 120

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-48051

Method: 8015B
Preparation: 3510C SGC
Silica Gel Cleanup

LCS Lab Sample ID: LCS 720-48051/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/28/2009 0234
Date Prepared: 03/26/2009 1703

Analysis Batch: 720-48126
Prep Batch: 720-48051
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-48051/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/28/2009 0301
Date Prepared: 03/26/2009 1703

Analysis Batch: 720-48126
Prep Batch: 720-48051
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C9-C24]	76	81	41 - 103	6	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
p-Terphenyl	92	90	31 - 120

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

720-18564

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

115071

SAMPLE COLLECTOR:
LFR
1900 Powell Street, 12th Floor
Emeryville, California 94608
(510) 652-4500 Fax: (510) 652-2246

PROJECT NO.: 001-09567-07 | SECTION NO.: | DATE: 3/17/09 | SAMPLER'S INITIALS: TRC | SERIAL NO.: Nº 203314

PROJECT NAME: Hanson Radum | SAMPLER (Signature): Tom Collins

03/30/2009

SAMPLE ID.	DATE	TIME	Lab Sample No.	No. of Containers	TYPE: Soil	TYPE: Water	TPHd (EPA 8015M)	TPHmo (EPA 8015M)	TPHg (EPA 8015M)	BTEX (EPA 8021/602)	VOCs (EPA 8260/624)	Metals (EPA 6010/7000)	SVOC's	Lead Scavengers	Fuel Oxygenates	TAT: Standard	TAT: RUSH:	TAT: HOLD	REMARKS
MW-5	3/17	9:35	1	6		X	X	X	X	X			X	X	X	X			
MW-9		9:42	2	6		X	X	X	X	X			X	X	X	X			
MW-7		11:15	3	6		X	X	X	X	X			X	X	X	X			
MW-6		10:55	4	6		X	X	X	X	X			X	X	X	X			
MW-8		12:30	5	6		X	X	X	X	X			X	X	X	X			
MW-2		12:12	6	6		X	X	X	X	X			X	X	X	X			
MW-10		14:49	7	6		X	X	X	X	X			X	X	X	X			
MW-8-DUP		12:45	8	6		X	X	X	X	X			X	X	X	X			
FB-031709		8:30	9	6		X	X	X	X	X			X	X	X	X			
TB	-	-	10	2		X											X		

SAMPLE RECEIPT: ☐ Intact ☐ Cold ☐ On Ice ☐ Ambient | Cooler Temp: 1.4, 2.4°C | Cooler No:

Preservative Correct? ☐ Yes ☐ No ☐ N/A

METHOD OF SHIPMENT:

LAB REPORT NO.:

FAX COC CONFIRMATION TO: Ron Goldstein

ANALYTICAL LABORATORY: Test America

FAX RESULTS TO: 11

SEND HARDCOPY TO: 11

SEND EDD TO: EMV.LABEDDS.COM

RELINQUISHED BY: 1	RELINQUISHED BY: 2	RELINQUISHED BY: 3
(SIGNATURE) Tom Collins (DATE) 3/17/09	(SIGNATURE) (DATE)	(SIGNATURE) (DATE)
(PRINTED NAME) Tom Collins (TIME) 15:45	(PRINTED NAME) (TIME)	(PRINTED NAME) (TIME)
(COMPANY) LFR	(COMPANY)	(COMPANY)
RECEIVED BY: 1	**RECEIVED BY: 2**	**RECEIVED BY (LABORATORY): 3**
(SIGNATURE) (DATE) 3/17/09	(SIGNATURE) (DATE)	(SIGNATURE) (DATE)
(PRINTED NAME) TBullock (TIME) 15:45	(PRINTED NAME) (TIME)	(PRINTED NAME) (TIME)
(COMPANY) TEST AMERICA	(COMPANY)	(COMPANY)

*VOCs: ☐ 8260 List ☐ 8240 List ☐ 8010 List ☐ 624 List

**Metals: ☐ CAM17 ☐ RCRA ☐ LUFT

Shipping Copy (White) File Copy (Yellow) Field Copy (Pink)

CHAIN of CUSTODY - ANALYSES FORM.CDR 5/2003

Login Sample Receipt Check List

Client: LFR, Inc.

Job Number: 720-18564-1

Login Number: 18564
List Source: TestAmerica San Francisco
Creator: Bullock, Tracy
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	ncm
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-18554-1

Job Description: Hanson Radum

For:
LFR, Inc.
1900 Powell St 12th Floor
Emeryville, CA 94608-1827

Attention: Mr. Ron Goloubow

Approved for release.
Afsaneh Salimpour
Project Manager I
4/30/2009 12:11 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com
04/30/2009
Revision: 1

Comments
No additional comments.

Receipt
No client label on the one Trip Blank TAL-SF TB: 021709 received, no sample date collected provided used 03/16/09.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: LFR, Inc. Job Number: 720-18554-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: LFR, Inc. Job Number: 720-18554-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL SF	SW846 8270C	
Liquid-Liquid Extraction (Separatory Funnel)	TAL SF		SW846 3510C

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: LFR, Inc. Job Number: 720-18554-1

Method	Analyst	Analyst ID
SW846 8260B/CA_LUFTMS	Zhao, June	JZ
SW846 8270C	Lee, Michael	ML

SAMPLE SUMMARY

Client: LFR, Inc. Job Number: 720-18554-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-18554-1	MW-1	Water	03/16/2009 1440	03/16/2009 1630
720-18554-2	MW-3	Water	03/16/2009 1505	03/16/2009 1630

Client: LFR, Inc. Job Number: 720-18554-1

Client Sample ID: MW-1

Lab Sample ID: 720-18554-1
Client Matrix: Water

Date Sampled: 03/16/2009 1440
Date Received: 03/16/2009 1630

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/19/2009 1832
Date Prepared: 03/19/2009 1832

Analysis Batch: 720-47847

Instrument ID: Varian 3900A
Lab File ID: e:\data\2009\200903\03190
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
EDB	ND		0.50
DIPE	ND		1.0
TBA	ND		5.0
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	91	78 - 112
1,2-Dichloroethane-d4 (Surr)	86	67 - 126

Client: LFR, Inc. Job Number: 720-18554-1

Client Sample ID: MW-3

Lab Sample ID: 720-18554-2 Date Sampled: 03/16/2009 1505
Client Matrix: Water Date Received: 03/16/2009 1630

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-47847 Instrument ID: Varian 3900A
Preparation: 5030B Lab File ID: e:\data\2009\200903\03190
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 03/19/2009 1855 Final Weight/Volume: 10 mL
Date Prepared: 03/19/2009 1855

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
EDB	ND		0.50
DIPE	ND		1.0
TBA	ND		5.0
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	93	78 - 112
1,2-Dichloroethane-d4 (Surr)	91	67 - 126

Client: LFR, Inc. Job Number: 720-18554-1

Client Sample ID: MW-1

Lab Sample ID: 720-18554-1 Date Sampled: 03/16/2009 1440
Client Matrix: Water Date Received: 03/16/2009 1630

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 890 mL
Date Analyzed: 03/25/2009 1256 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Phenol	ND		2.2
Bis(2-chloroethyl)ether	ND		2.2
2-Chlorophenol	ND		2.2
1,3-Dichlorobenzene	ND		2.2
1,4-Dichlorobenzene	ND		2.2
Benzyl alcohol	ND		5.6
1,2-Dichlorobenzene	ND		2.2
2-Methylphenol	ND		2.2
4-Methylphenol	ND		2.2
N-Nitrosodi-n-propylamine	ND		2.2
Hexachloroethane	ND		2.2
Nitrobenzene	ND		2.2
Isophorone	ND		2.2
2-Nitrophenol	ND		2.2
2,4-Dimethylphenol	ND		2.2
Bis(2-chloroethoxy)methane	ND		5.6
2,4-Dichlorophenol	ND		5.6
1,2,4-Trichlorobenzene	ND		2.2
Naphthalene	ND		2.2
4-Chloroaniline	ND		2.2
Hexachlorobutadiene	ND		2.2
4-Chloro-3-methylphenol	ND		5.6
2-Methylnaphthalene	ND		2.2
Hexachlorocyclopentadiene	ND		5.6
2,4,6-Trichlorophenol	ND		2.2
2,4,5-Trichlorophenol	ND		2.2
2-Chloronaphthalene	ND		2.2
2-Nitroaniline	ND		11
Dimethyl phthalate	ND		5.6
Acenaphthylene	ND		2.2
3-Nitroaniline	ND		5.6
Acenaphthene	ND		2.2
2,4-Dinitrophenol	ND		11
4-Nitrophenol	ND		11
Dibenzofuran	ND		2.2
2,4-Dinitrotoluene	ND		2.2
2,6-Dinitrotoluene	ND		5.6
Diethyl phthalate	ND		5.6
4-Chlorophenyl phenyl ether	ND		5.6
Fluorene	ND		2.2
4-Nitroaniline	ND		11
2-Methyl-4,6-dinitrophenol	ND		11
N-Nitrosodiphenylamine	ND		2.2
4-Bromophenyl phenyl ether	ND		5.6

Client: LFR, Inc. Job Number: 720-18554-1

Client Sample ID: MW-1

Lab Sample ID: 720-18554-1 Date Sampled: 03/16/2009 1440
Client Matrix: Water Date Received: 03/16/2009 1630

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 890 mL
Date Analyzed: 03/25/2009 1256 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Hexachlorobenzene	ND		2.2
Pentachlorophenol	ND		11
Phenanthrene	ND		2.2
Anthracene	ND		2.2
Di-n-butyl phthalate	ND		5.6
Fluoranthene	ND		2.2
Pyrene	ND		2.2
Butyl benzyl phthalate	ND		5.6
3,3'-Dichlorobenzidine	ND		5.6
Benzo[a]anthracene	ND		5.6
Bis(2-ethylhexyl) phthalate	ND		11
Chrysene	ND		2.2
Di-n-octyl phthalate	ND		22
Benzo[b]fluoranthene	ND		2.2
Benzo[a]pyrene	ND		2.2
Benzo[k]fluoranthene	ND		2.2
Indeno[1,2,3-cd]pyrene	ND		2.2
Benzo[g,h,i]perylene	ND		2.2
Benzoic acid	ND		11
Azobenzene	ND		2.2
Dibenz(a,h)anthracene	ND		2.2

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	71	6 - 98
2-Fluorobiphenyl	70	6 - 103
Terphenyl-d14	78	36 - 106
2-Fluorophenol	44	1 - 66
Phenol-d5	31	1 - 47
2,4,6-Tribromophenol	81	22 - 124

Client: LFR, Inc. Job Number: 720-18554-1

Client Sample ID: MW-3

Lab Sample ID: 720-18554-2 Date Sampled: 03/16/2009 1505
Client Matrix: Water Date Received: 03/16/2009 1630

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 950 mL
Date Analyzed: 03/25/2009 1329 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Phenol	ND		2.1
Bis(2-chloroethyl)ether	ND		2.1
2-Chlorophenol	ND		2.1
1,3-Dichlorobenzene	ND		2.1
1,4-Dichlorobenzene	ND		2.1
Benzyl alcohol	ND		5.3
1,2-Dichlorobenzene	ND		2.1
2-Methylphenol	ND		2.1
4-Methylphenol	ND		2.1
N-Nitrosodi-n-propylamine	ND		2.1
Hexachloroethane	ND		2.1
Nitrobenzene	ND		2.1
Isophorone	ND		2.1
2-Nitrophenol	ND		2.1
2,4-Dimethylphenol	ND		2.1
Bis(2-chloroethoxy)methane	ND		5.3
2,4-Dichlorophenol	ND		5.3
1,2,4-Trichlorobenzene	ND		2.1
Naphthalene	ND		2.1
4-Chloroaniline	ND		2.1
Hexachlorobutadiene	ND		2.1
4-Chloro-3-methylphenol	ND		5.3
2-Methylnaphthalene	ND		2.1
Hexachlorocyclopentadiene	ND		5.3
2,4,6-Trichlorophenol	ND		2.1
2,4,5-Trichlorophenol	ND		2.1
2-Chloronaphthalene	ND		2.1
2-Nitroaniline	ND		11
Dimethyl phthalate	ND		5.3
Acenaphthylene	ND		2.1
3-Nitroaniline	ND		5.3
Acenaphthene	ND		2.1
2,4-Dinitrophenol	ND		11
4-Nitrophenol	ND		11
Dibenzofuran	ND		2.1
2,4-Dinitrotoluene	ND		2.1
2,6-Dinitrotoluene	ND		5.3
Diethyl phthalate	ND		5.3
4-Chlorophenyl phenyl ether	ND		5.3
Fluorene	ND		2.1
4-Nitroaniline	ND		11
2-Methyl-4,6-dinitrophenol	ND		11
N-Nitrosodiphenylamine	ND		2.1
4-Bromophenyl phenyl ether	ND		5.3

Client: LFR, Inc. Job Number: 720-18554-1

Client Sample ID: MW-3

Lab Sample ID: 720-18554-2 Date Sampled: 03/16/2009 1505
Client Matrix: Water Date Received: 03/16/2009 1630

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C Analysis Batch: 720-48005 Instrument ID: Sat 2K1
Preparation: 3510C Prep Batch: 720-47916 Lab File ID: d:\data\200903\032509\720-
Dilution: 1.0 Initial Weight/Volume: 950 mL
Date Analyzed: 03/25/2009 1329 Final Weight/Volume: 1 mL
Date Prepared: 03/23/2009 1257 Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Hexachlorobenzene	ND		2.1
Pentachlorophenol	ND		11
Phenanthrene	ND		2.1
Anthracene	ND		2.1
Di-n-butyl phthalate	ND		5.3
Fluoranthene	ND		2.1
Pyrene	ND		2.1
Butyl benzyl phthalate	ND		5.3
3,3'-Dichlorobenzidine	ND		5.3
Benzo[a]anthracene	ND		5.3
Bis(2-ethylhexyl) phthalate	ND		11
Chrysene	ND		2.1
Di-n-octyl phthalate	ND		21
Benzo[b]fluoranthene	ND		2.1
Benzo[a]pyrene	ND		2.1
Benzo[k]fluoranthene	ND		2.1
Indeno[1,2,3-cd]pyrene	ND		2.1
Benzo[g,h,i]perylene	ND		2.1
Benzoic acid	ND		11
Azobenzene	ND		2.1
Dibenz(a,h)anthracene	ND		2.1

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	70	6 - 98
2-Fluorobiphenyl	69	6 - 103
Terphenyl-d14	78	36 - 106
2-Fluorophenol	39	1 - 66
Phenol-d5	28	1 - 47
2,4,6-Tribromophenol	80	22 - 124

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: LFR, Inc. Job Number: 720-18554-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-47847					
LCS 720-47847/2	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCSD 720-47847/1	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
MB 720-47847/3	Method Blank	T	Water	8260B/CA_LUFT	
720-18554-1	MW-1	T	Water	8260B/CA_LUFT	
720-18554-2	MW-3	T	Water	8260B/CA_LUFT	

Report Basis
T = Total

GC/MS Semi VOA					
Prep Batch: 720-47916					
LCS 720-47916/2-A	Lab Control Sample	T	Water	3510C	
LCSD 720-47916/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 720-47916/1-A	Method Blank	T	Water	3510C	
720-18554-1	MW-1	T	Water	3510C	
720-18554-2	MW-3	T	Water	3510C	
Analysis Batch:720-48005					
LCS 720-47916/2-A	Lab Control Sample	T	Water	8270C	720-47916
LCSD 720-47916/3-A	Lab Control Sample Duplicate	T	Water	8270C	720-47916
MB 720-47916/1-A	Method Blank	T	Water	8270C	720-47916
720-18554-1	MW-1	T	Water	8270C	720-47916
720-18554-2	MW-3	T	Water	8270C	720-47916

Report Basis
T = Total

Client: LFR, Inc.

Job Number: 720-18554-1

Method Blank - Batch: 720-47847

Method: 8260B/CA_LUFTMS
Preparation: 5030B

Lab Sample ID: MB 720-47847/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1000
Date Prepared: 03/19/2009 1000

Analysis Batch: 720-47847
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: e:\data\2009\200903\0319(
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
EDB	ND		0.50
DIPE	ND		1.0
TBA	ND		5.0
1,2-DCA	ND		0.50
Ethylbenzene	ND		0.50

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	90	78 - 112
1,2-Dichloroethane-d4 (Surr)	92	67 - 126

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

Client: LFR, Inc. Job Number: 720-18554-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-47847

Method: 8260B/CA_LUFTMS
Preparation: 5030B

LCS Lab Sample ID: LCS 720-47847/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1036
Date Prepared: 03/19/2009 1036

Analysis Batch: 720-47847
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: e:\data\2009\200903\0319(
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-47847/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1059
Date Prepared: 03/19/2009 1059

Analysis Batch: 720-47847
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: e:\data\2009\200903\031909
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	84	89	74 - 112	5	20		
Gasoline Range Organics (GRO)-C5-C12	61	63	42 - 80	4	20		
Toluene	72	76	65 - 98	4	20		
MTBE	84	80	69 - 104	4	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	93	92	78 - 112
1,2-Dichloroethane-d4 (Surr)	90	84	67 - 126

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

Client: LFR, Inc. Job Number: 720-18554-1

Method Blank - Batch: 720-47916

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 720-47916/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1149
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\mb
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	RL
Phenol	ND		2.0
Bis(2-chloroethyl)ether	ND		2.0
2-Chlorophenol	ND		2.0
1,3-Dichlorobenzene	ND		2.0
1,4-Dichlorobenzene	ND		2.0
Benzyl alcohol	ND		5.0
1,2-Dichlorobenzene	ND		2.0
2-Methylphenol	ND		2.0
4-Methylphenol	ND		2.0
N-Nitrosodi-n-propylamine	ND		2.0
Hexachloroethane	ND		2.0
Nitrobenzene	ND		2.0
Isophorone	ND		2.0
2-Nitrophenol	ND		2.0
2,4-Dimethylphenol	ND		2.0
Bis(2-chloroethoxy)methane	ND		5.0
2,4-Dichlorophenol	ND		5.0
1,2,4-Trichlorobenzene	ND		2.0
Naphthalene	ND		2.0
4-Chloroaniline	ND		2.0
Hexachlorobutadiene	ND		2.0
4-Chloro-3-methylphenol	ND		5.0
2-Methylnaphthalene	ND		2.0
Hexachlorocyclopentadiene	ND		5.0
2,4,6-Trichlorophenol	ND		2.0
2,4,5-Trichlorophenol	ND		2.0
2-Chloronaphthalene	ND		2.0
2-Nitroaniline	ND		10
Dimethyl phthalate	ND		5.0
Acenaphthylene	ND		2.0
3-Nitroaniline	ND		5.0
Acenaphthene	ND		2.0
2,4-Dinitrophenol	ND		10
4-Nitrophenol	ND		10
Dibenzofuran	ND		2.0
2,4-Dinitrotoluene	ND		2.0
2,6-Dinitrotoluene	ND		5.0
Diethyl phthalate	ND		5.0
4-Chlorophenyl phenyl ether	ND		5.0
Fluorene	ND		2.0
4-Nitroaniline	ND		10

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

Client: LFR, Inc. Job Number: 720-18554-1

Method Blank - Batch: 720-47916

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 720-47916/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1149
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\mb
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	RL
2-Methyl-4,6-dinitrophenol	ND		10
N-Nitrosodiphenylamine	ND		2.0
4-Bromophenyl phenyl ether	ND		5.0
Hexachlorobenzene	ND		2.0
Pentachlorophenol	ND		10
Phenanthrene	ND		2.0
Anthracene	ND		2.0
Di-n-butyl phthalate	ND		5.0
Fluoranthene	ND		2.0
Pyrene	ND		2.0
Butyl benzyl phthalate	ND		5.0
3,3'-Dichlorobenzidine	ND		5.0
Benzo[a]anthracene	ND		5.0
Bis(2-ethylhexyl) phthalate	ND		10
Chrysene	ND		2.0
Di-n-octyl phthalate	ND		20
Benzo[b]fluoranthene	ND		2.0
Benzo[a]pyrene	ND		2.0
Benzo[k]fluoranthene	ND		2.0
Indeno[1,2,3-cd]pyrene	ND		2.0
Benzo[g,h,i]perylene	ND		2.0
Benzoic acid	ND		10
Azobenzene	ND		2.0
Dibenz(a,h)anthracene	ND		2.0

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	72	6 - 98
2-Fluorobiphenyl	69	6 - 103
Terphenyl-d14	84	36 - 106
2-Fluorophenol	46	1 - 66
Phenol-d5	32	1 - 47
2,4,6-Tribromophenol	74	22 - 124

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

Client: LFR, Inc. Job Number: 720-18554-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-47916

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 720-47916/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1042
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\LC
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

LCSD Lab Sample ID: LCSD 720-47916/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1116
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\LCS
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Phenol	31	38	10 - 49	22	35		
Bis(2-chloroethyl)ether	58	71	22 - 113	21	35		
2-Chlorophenol	60	76	19 - 104	24	25		
1,3-Dichlorobenzene	62	70	18 - 95	13	35		
1,4-Dichlorobenzene	54	67	17 - 82	22	30		
Benzyl alcohol	60	75	21 - 94	22	35		
1,2-Dichlorobenzene	64	71	20 - 89	10	35		
2-Methylphenol	58	70	18 - 100	19	35		
4-Methylphenol	51	62	16 - 93	19	35		
N-Nitrosodi-n-propylamine	64	81	34 - 108	23	34		
Hexachloroethane	64	75	4 - 87	16	35		
Nitrobenzene	74	96	27 - 117	26	35		
Isophorone	79	95	42 - 118	19	35		
2-Nitrophenol	67	82	34 - 107	20	35		
2,4-Dimethylphenol	81	98	42 - 122	19	35		
Bis(2-chloroethoxy)methane	65	77	37 - 110	18	35		
2,4-Dichlorophenol	67	81	39 - 107	20	35		
1,2,4-Trichlorobenzene	62	74	20 - 95	17	35		
Naphthalene	65	80	22 - 99	21	35		
4-Chloroaniline	45	54	10 - 80	17	35		
Hexachlorobutadiene	52	66	3 - 101	24	35		
4-Chloro-3-methylphenol	74	88	22 - 147	17	31		
2-Methylnaphthalene	64	77	10 - 130	19	35		
Hexachlorocyclopentadiene	65	79	21 - 101	19	35		
2,4,6-Trichlorophenol	72	81	31 - 118	12	35		
2,4,5-Trichlorophenol	71	83	35 - 112	16	35		
2-Chloronaphthalene	63	79	26 - 106	22	35		
2-Nitroaniline	72	86	31 - 106	18	35		
Dimethyl phthalate	72	88	47 - 117	20	35		
Acenaphthylene	83	103	33 - 128	22	35		
3-Nitroaniline	71	85	40 - 107	18	35		
Acenaphthene	75	81	31 - 109	8	30		

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

Client: LFR, Inc. Job Number: 720-18554-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-47916

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 720-47916/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1042
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\LC
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

LCSD Lab Sample ID: LCSD 720-47916/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1116
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\LCS
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2,4-Dinitrophenol	67	76	51 - 102	13	35		
4-Nitrophenol	42	48	26 - 63	13	35		
Dibenzofuran	68	79	42 - 97	14	35		
2,4-Dinitrotoluene	77	92	52 - 113	18	35		
2,6-Dinitrotoluene	77	83	50 - 115	8	35		
Diethyl phthalate	76	89	54 - 111	16	35		
4-Chlorophenyl phenyl ether	73	84	40 - 110	14	35		
Fluorene	71	85	37 - 104	17	35		
4-Nitroaniline	79	89	56 - 116	12	35		
2-Methyl-4,6-dinitrophenol	66	82	47 - 114	21	35		
N-Nitrosodiphenylamine	80	96	56 - 123	19	35		
4-Bromophenyl phenyl ether	76	95	52 - 111	22	35		
Hexachlorobenzene	78	93	61 - 104	18	35		
Pentachlorophenol	67	80	55 - 107	18	35		
Phenanthrene	75	91	56 - 110	19	35		
Anthracene	80	94	58 - 114	16	35		
Di-n-butyl phthalate	86	104	56 - 114	19	35		
Fluoranthene	83	96	60 - 121	15	35		
Pyrene	76	83	56 - 91	10	35		
Butyl benzyl phthalate	73	82	37 - 100	12	35		
3,3'-Dichlorobenzidine	59	68	37 - 111	15	35		
Benzo[a]anthracene	67	79	50 - 112	16	35		
Bis(2-ethylhexyl) phthalate	77	88	59 - 111	13	35		
Chrysene	73	77	56 - 94	4	35		
Di-n-octyl phthalate	71	83	47 - 118	15	35		
Benzo[b]fluoranthene	75	80	55 - 110	7	35		
Benzo[a]pyrene	66	75	59 - 103	12	35		
Benzo[k]fluoranthene	73	89	55 - 110	20	35		
Indeno[1,2,3-cd]pyrene	78	88	63 - 126	11	35		
Benzo[g,h,i]perylene	79	89	10 - 140	12	35		
Benzoic acid	28	30	7 - 46	8	35		
Azobenzene	76	87	49 - 102	13	35		

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

Client: LFR, Inc. Job Number: 720-18554-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-47916

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 720-47916/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1042
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\LC
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

LCSD Lab Sample ID: LCSD 720-47916/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1116
Date Prepared: 03/23/2009 1257

Analysis Batch: 720-48005
Prep Batch: 720-47916
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200903\032509\LCS
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dibenz(a,h)anthracene	69	82	10 - 130	17	35		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Nitrobenzene-d5	70	86	6 - 98
2-Fluorobiphenyl	64	76	6 - 103
Terphenyl-d14	74	83	36 - 106
2-Fluorophenol	40	47	1 - 66
Phenol-d5	29	35	1 - 47
2,4,6-Tribromophenol	75	83	22 - 124

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

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

11506)

SAMPLE COLLECTOR:
LFR
1900 Powell Street, 12th Floor
Emeryville, California 94608
(510) 652-4500 Fax: (510) 652-2246

PROJECT NO.: 001-04567-07 | SECTION NO.: | DATE: 3/16/09 | SAMPLER'S INITIALS: TRC | SERIAL NO.: Nº 203315

PROJECT NAME: Hanson Radium | SAMPLER (Signature): Tom Collins

720-18554

	SAMPLE ID.	DATE	TIME	Lab Sample No.	No. of Containers	Soil	Water	TPHd (EPA 8015M)	TPHmo (EPA 8015M)	TPHg (EPA 8015M)	BTEX (EPA 8021/802)	VOCs (EPA 8260/624)	Metals (EPA 6010/7000)	SVOC 8270	Fuel Oxis	Lead Scavengers	Standard	RUSH:	HOLD	REMARKS
1.	MW-1	3/16	14:40		6		X	X	X	X	X			X	X	X	X			
2.	MW-3	3/16	15:05		6		X	X	X	X	X			X	X	X	X			
3.	MW-3-8	3/16	15:40		4		X	X	X		X						X			
4.	MW-4-8	3/16	12:24		4		X	X	X		X						X			
5.	TB-021709	—	—														X		X	

TAT: Standard / RUSH: / HOLD

*VOCs: ☐ 8260 List ☐ 8240 List ☐ 8010 List ☐ 624 List
**Metals: ☐ CAM17 ☐ RCRA ☐ LUFT

SAMPLE RECEIPT: ☐ Intact ☐ Cold ☐ On Ice ☐ Ambient | Cooler Temp: 2.7°C | Cooler No:
Preservative Correct? ☐ Yes ☐ No ☐ N/A

METHOD OF SHIPMENT: Hand
LAB REPORT NO.: Ron Goldman
FAX COC CONFIRMATION TO:

ANALYTICAL LABORATORY: Test America

FAX RESULTS TO: "
SEND HARDCOPY TO: "
SEND EDD TO: EMV.LABEDDS.COM

	RELINQUISHED BY: 1	RELINQUISHED BY: 2	RELINQUISHED BY: 3
(SIGNATURE)	Tom Collins		
(DATE)	3/16/09		
(TIME)	16:30		
(PRINTED NAME)	Tom Collins		
(COMPANY)	LFR		

	RECEIVED BY: 1	RECEIVED BY: 2	RECEIVED BY (LABORATORY): 3
(SIGNATURE)	T. Bullock		
(DATE)	3/16/09		
(TIME)	16:30		
(PRINTED NAME)	T. Bullock		
(COMPANY)	TEST AMERICA		

Shipping Copy (White) File Copy (Yellow) Field Copy (Pink)

Login Sample Receipt Check List

Client: LFR, Inc.

Job Number: 720-18554-1

Login Number: 18554
List Source: TestAmerica San Francisco
Creator: Bullock, Tracy
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	see NCM
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-18554-3

Job Description: Hanson Radum

For:
LFR, Inc.
1900 Powell St 12th Floor
Emeryville, CA 94608-1827

Attention: Mr. Ron Goloubow

Approved for release.
Afsaneh Salimpour
Project Manager I
3/31/2009 3:17 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com
03/31/2009

EXECUTIVE SUMMARY - Detections

Client: LFR, Inc. Job Number: 720-18554-3

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: LFR, Inc. Job Number: 720-18554-3

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Liquid-Liquid Extraction (Separatory Funnel)	TAL SF		SW846 3510C SGC

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: LFR, Inc. Job Number: 720-18554-3

Method	Analyst	Analyst ID
SW846 8015B	Hayashi, Derek	DH

SAMPLE SUMMARY

Client: LFR, Inc. Job Number: 720-18554-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-18554-1	MW-1	Water	03/16/2009 1440	03/16/2009 1630
720-18554-2	MW-3	Water	03/16/2009 1505	03/16/2009 1630

Client: LFR, Inc. Job Number: 720-18554-3

Client Sample ID: MW-1

Lab Sample ID: 720-18554-1
Client Matrix: Water

Date Sampled: 03/16/2009 1440
Date Received: 03/16/2009 1630

8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup

Method: 8015B
Preparation: 3510C SGC
Dilution: 1.0
Date Analyzed: 03/27/2009 0140
Date Prepared: 03/26/2009 1221

Analysis Batch: 720-48168
Prep Batch: 720-48032

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Motor Oil Range Organics [C24-C36]	ND		300
Diesel Range Organics [C9-C24]	ND		50

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	78	31 - 120

Client: LFR, Inc. Job Number: 720-18554-3

Client Sample ID: MW-3

Lab Sample ID: 720-18554-2
Client Matrix: Water

Date Sampled: 03/16/2009 1505
Date Received: 03/16/2009 1630

8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup

Method: 8015B
Preparation: 3510C SGC
Dilution: 1.0
Date Analyzed: 03/27/2009 0207
Date Prepared: 03/26/2009 1221

Analysis Batch: 720-48168
Prep Batch: 720-48032

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Motor Oil Range Organics [C24-C36]	ND		300
Diesel Range Organics [C9-C24]	ND		50

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	85	31 - 120

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: LFR, Inc. Job Number: 720-18554-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-48032					
LCS 720-48032/2-A	Lab Control Spike	A	Water	3510C SGC	
LCSD 720-48032/3-A	Lab Control Spike Duplicate	A	Water	3510C SGC	
MB 720-48032/1-A	Method Blank	A	Water	3510C SGC	
720-18554-1	MW-1	A	Water	3510C SGC	
720-18554-2	MW-3	A	Water	3510C SGC	
Analysis Batch:720-48168					
LCS 720-48032/2-A	Lab Control Spike	A	Water	8015B	720-48032
LCSD 720-48032/3-A	Lab Control Spike Duplicate	A	Water	8015B	720-48032
MB 720-48032/1-A	Method Blank	A	Water	8015B	720-48032
720-18554-1	MW-1	A	Water	8015B	720-48032
720-18554-2	MW-3	A	Water	8015B	720-48032

Report Basis
A = Silica Gel Cleanup

Client: LFR, Inc. Job Number: 720-18554-3

Method Blank - Batch: 720-48032

Method: 8015B
Preparation: 3510C SGC
Silica Gel Cleanup

Lab Sample ID: MB 720-48032/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 0112
Date Prepared: 03/26/2009 1221

Analysis Batch: 720-48168
Prep Batch: 720-48032
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Motor Oil Range Organics [C24-C36]	ND		300
Diesel Range Organics [C9-C24]	ND		50

Surrogate	% Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	85	31 - 120

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-48032

Method: 8015B
Preparation: 3510C SGC
Silica Gel Cleanup

LCS Lab Sample ID: LCS 720-48032/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 0017
Date Prepared: 03/26/2009 1221

Analysis Batch: 720-48168
Prep Batch: 720-48032
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-48032/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 0045
Date Prepared: 03/26/2009 1221

Analysis Batch: 720-48168
Prep Batch: 720-48032
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C9-C24]	78	105	49 - 120	29	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
p-Terphenyl	95	93	31 - 120

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

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

11506)

SAMPLE COLLECTOR:
LFR
1900 Powell Street, 12th Floor
Emeryville, California 94608
(510) 652-4500 Fax: (510) 652-2246

PROJECT NO.: 001-04567-07 | SECTION NO.: | DATE: 3/16/09 | SAMPLER'S INITIALS: TRC | SERIAL NO.: Nº 203315

PROJECT NAME: Hanson Radum | SAMPLER (Signature): Tom Collins

720-18554

	SAMPLE ID.	DATE	TIME	Lab Sample No.	No. of Containers	Soil	Water	TYPE	TPHd (EPA 8015M)	TPHmo (EPA 8015M)	TPHg (EPA 8015M)	BTEX (EPA 8021/802)	VOCs (EPA 8260/624)	Metals (EPA 6010/7000)	SVOC 8270	Fuel Oxis	Lead Scavengers	TAT Standard	RUSH	HOLD	REMARKS
1.	MW-1	3/16	14:40		6		X		X	X	X	X			X	X	X	X			
2.	MW-3	3/16	15:05		6		X		X	X	X	X			X	X	X	X			
3.	MW-3-8	3/16	15:40		4		X		X	X		X						X			
4.	MW-4-8	3/16	12:24		4		X		X	X		X						X			
5.	TB-021709	—	—															X		X	

*VOCs: ☐ 8260 List ☐ 8240 List ☐ 8010 List ☐ 624 List
**Metals: ☐ CAM17 ☐ RCRA ☐ LUFT

SAMPLE RECEIPT: ☐ Intact ☐ Cold ☑ On Ice ☐ Ambient
Cooler Temp: 2.7°C
Cooler No:
Preservative Correct? ☐ Yes ☐ No ☐ N/A

METHOD OF SHIPMENT: Hand
LAB REPORT NO.: Ron Goldman
FAX COC CONFIRMATION TO:

RELINQUISHED BY: 1
(SIGNATURE) Tom Collins (DATE) 3/16/09
(PRINTED NAME) Tom Collins (TIME) 16:30
(COMPANY) LFR

RELINQUISHED BY: 2
(SIGNATURE) (DATE)
(PRINTED NAME) (TIME)
(COMPANY)

RELINQUISHED BY: 3
(SIGNATURE) (DATE)
(PRINTED NAME) (TIME)
(COMPANY)

ANALYTICAL LABORATORY: Test America

FAX RESULTS TO: "
SEND HARDCOPY TO: "
SEND EDD TO: EMV.LABEDDS.COM

RECEIVED BY: 1
(SIGNATURE) (DATE) 3/16/09
(PRINTED NAME) T. Bullock (TIME) 16:30
(COMPANY) TEST AMERICA

RECEIVED BY: 2
(SIGNATURE) (DATE)
(PRINTED NAME) (TIME)
(COMPANY)

RECEIVED BY (LABORATORY): 3
(SIGNATURE) (DATE)
(PRINTED NAME) (TIME)
(COMPANY)

Shipping Copy (White) File Copy (Yellow) Field Copy (Pink)

CHAIN of CUSTODY - ANALYSES FORM.CDR 5/2003

03/31/2009

Page 11 of 12

Login Sample Receipt Check List

Client: LFR, Inc.

Job Number: 720-18554-3

Login Number: 18554
List Source: TestAmerica San Francisco
Creator: Bullock, Tracy
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	see NCM
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	