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**Groundwater Monitoring Report
October 1 through December 31, 2008
SS-123 Area (AOC #8)
Hanson Aggregates Radum Facility
3000 Busch Road
Pleasanton, California
(ACEH Case #RO0002952;
Geotracker Global ID #SL0600101555)**

**February 10, 2009
001-09567-06**

Prepared for
Hanson Aggregates West Region
3000 Busch Road
Pleasanton, California 94566

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

February 10, 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, October 1 through December 31, 2008, SS-123 Area (AOC #8), Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California, (ACEH Case #RO0002952 and Geotracker Global ID #SL0600101555)

Dear Mr. Wickham:

The enclosed Groundwater Monitoring Report was prepared by LFR Inc. (LFR) on behalf of Hanson Aggregates West Region for the former hot mix asphalt plant area (located within area of concern [AOC] #8) of the former Hanson Aggregates Radum Facility, located at 3000 Busch Road, Pleasanton, California (“the Site”). This Report presents and discusses the results of the third of four planned quarterly groundwater monitoring events conducted at the Site, which was conducted during January 2009.

The investigation and groundwater monitoring were conducted in accordance with the “Work Plan for Additional Site Characterization at AOC #8, Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California” (“the Work Plan”), which was submitted to Alameda County Environmental Health (ACEH) on February 6, 2008. ACEH, as the regulatory agency overseeing the environmental characterization of the Site under ACEH case number #RO0002952 (Geotracker Global ID # SL0600101555), approved the Work Plan on February 26, 2008.

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

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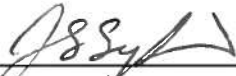
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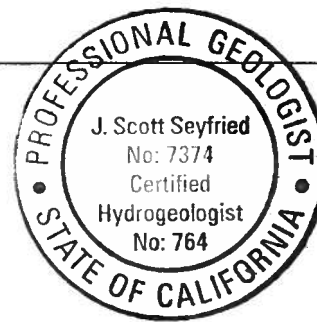
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CERTIFICATIONS

LFR Inc. has prepared this Groundwater Monitoring Report on behalf of Hanson Aggregates 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.



J. Scott Seyfried, P.G., C.HG.
Principal Hydrogeologist
California Professional Geologist (7374)
Registered Hydrogeologist (764)



2/10/09

Date



Ron Goloubow
Senior Associate Geologist

February 10, 2009

Date

EXECUTIVE SUMMARY

This Groundwater Monitoring Report for the period October 1 through December 31, 2008 (“the reporting period”) presents the results of the third of four planned groundwater monitoring events at the former Hanson Aggregates Radum Facility located at 3000 Busch Road, Pleasanton, California (“the Site”). The first and second groundwater monitoring events were conducted in June 2008 and September 2008, respectively. The purpose of this monitoring program is to assess groundwater quality in the SS-123 Area of the Site.

Wells MW-3(SS123) and MW-4(SS123) were purged and sampled on January 12, 2009. The laboratory quality assurance and quality control procedures indicated possible laboratory contamination associated with the groundwater sample collected from MW-3(SS123) on January 12, 2009. As a result, another groundwater sample was collected from well MW-3(SS123) on January 29, 2009. Analytical results from the January 29, 2009 sampling event indicate that none of the compounds analyzed for were detected above laboratory reporting limits.

Groundwater monitoring results from this sampling event are consistent with results from the previous sampling events conducted at the Site. LFR will conduct the fourth groundwater monitoring event for the project during the first quarter of 2009, likely in March 2009. Groundwater samples will be collected and analyzed for the same parameters analyzed for during the current reporting period.

1.0 INTRODUCTION

This Groundwater Monitoring Report for the period October 1 through December 31, 2008 (“the reporting period”) presents the results of the third of four groundwater monitoring events conducted by LFR Inc. (LFR) on behalf of Hanson Aggregates West Region (“Hanson”) to further characterize the extent of affected soil and groundwater in the SS-123 Area of the former Hanson Aggregates Radum Facility located at 3000 Busch Road, Pleasanton, California (“the Site”; Figure 1). This area is also referred to as Area of Concern (AOC) #8, and is located within the property now owned by Legacy Partners (“Legacy”; Figure 2). This groundwater monitoring event and previous soil and groundwater investigations were conducted on behalf of Hanson, who has retained the responsibility for characterizing the lateral and vertical extent of petroleum hydrocarbon-affected soil and groundwater at the Site.

The scope of work for previous investigations conducted at the Site was described in the “Work Plan for Additional Site Characterization at AOC #8, Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California” (“the Work Plan”), which was submitted to Alameda County Environmental Health (ACEH) on February 6, 2008 (LFR 2008a). ACEH, as the regulatory agency overseeing the environmental characterization of the Site under ACEH case number #RO0002952 (Geotracker Global ID #SL0600101555), approved the Work Plan on February 26, 2008. In its approval letter, ACEH modified the proposed scope of work by requesting that two additional groundwater monitoring wells be installed to better assess the local groundwater flow direction.

LFR completed the investigation in May 2008 and conducted the first of four planned quarterly groundwater monitoring events on June 5, 2008. The results of the investigation and groundwater monitoring activities were presented in the “Site Investigation and Well Installation Report for the SS-123 Area (AOC #8), ACEH Case #RO0002952 and Geotracker Global ID #SL0600101555, Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California,” dated June 20, 2008 (LFR 2008b).

The second groundwater monitoring event was conducted in September 2008 and was reported to ACEH on November 10, 2008 (LFR 2008c). The third groundwater monitoring event was conducted in January 2009 and is the subject of this report.

2.0 QUARTERLY GROUNDWATER MONITORING

The third of four planned quarterly groundwater monitoring events was conducted on January 12 and 29, 2009. This monitoring event consisted of measuring depth to groundwater and collecting groundwater samples from monitoring wells MW-3(SS123) and MW-4(SS123; Figure 3).

2.1 Groundwater Elevation Monitoring

Depth-to-groundwater monitoring was conducted prior to purging and sampling, using a Solinst water-level indicator, and with respect to the top of casing (TOC). Depth-to-groundwater measurements were recorded on a field sheet, a copy of which is included in Appendix B. Groundwater elevations were calculated by subtracting the depth-to-groundwater measurement from the TOC elevation. Groundwater elevations are presented in Table 1 and on Figure 4.

2.2 Groundwater Monitoring Well Purging and Sampling

Low-flow purging and sampling techniques were intended to be used to collect groundwater samples during this groundwater monitoring event. However, well MW-3(SS123) could not sustain a consistent water level during low-flow sampling; therefore, this well was purged dry and allowed to recharge for approximately two hours prior to collection of the sample. Well MW-4(SS123) was sampled using the low-flow purging and sampling technique.

Well MW-3(SS123)

Well MW-3(SS123) is located approximately 100 west-northwest of former boring SS-123(F2; Figure 3) and was installed as a deep groundwater monitoring well to a total depth of approximately 70 feet below ground surface (bgs) with a 10-foot-long well screen. Prior to the collection of groundwater samples on January 12 and 29, 2009, well MW-3(SS123) was purged using a submersible pump. Purging was stopped when the well dewatered. Samples were collected using a single-use, disposable bailer after approximately two hours had elapsed and the groundwater level had recovered to approximately 80 percent of the pre-purge water level prior.

Well MW-4(SS123)

Well MW-4(SS123) is located adjacent to well MW-3(SS123) and was installed as a shallow groundwater monitoring well to a total depth of approximately 28 feet bgs with a 10-foot-long well screen. Prior to the collection of a groundwater sample on January 12, 2009, well MW-4(SS123) was purged using a submersible pump. Purging was stopped when the well water-quality parameters stabilized and the samples were collected directly from the outlet of the submersible pump.

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 trip blank sample was collected and submitted to the laboratory for quality control purposes.

2.2.1 Laboratory Analyses

Groundwater samples selected for laboratory analyses were submitted to TestAmerica Laboratories, Inc., a California-certified analytical laboratory located in Pleasanton, California. Samples were analyzed for one or more of the following parameters, according to the sample matrix presented in Table 2:

- total petroleum hydrocarbons (TPH) as diesel (TPHd) and as motor oil (TPHmo) by U.S. Environmental Protection Agency (EPA) Method 8015 (after undergoing silica-gel cleanup)
- benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260

Analytical results are summarized in Table 2 and on Figure 3, based on laboratory-certified analytical reports included in Appendix A.

3.0 RESULTS

Results of groundwater elevation monitoring are summarized in Table 1. A summary of analytical results is presented in Table 2 and on Figure 3. Groundwater elevation data and interpreted groundwater equipotential contours are presented on Figure 4. Relevant Environmental Screening Levels (ESLs) developed by the San Francisco Bay Regional Water Quality Control Board (RWQCB) 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

Groundwater elevations collected from MW-3(SS123) and MW-4(SS123) during this monitoring event confirm results from previous sampling events that these two wells are completed in different groundwater flow zones. The approximately 19-foot difference in groundwater elevation in these two adjacent wells (Table 1) indicates that MW-4(SS123) is completed in a shallow, perched groundwater zone, while MW-3(SS123) is completed in a deeper (possibly regional) groundwater zone.

Based on groundwater monitoring well data from the AOC #1 area (located approximately 3,500 feet west-southwest of the Site), the local groundwater flow direction of deeper groundwater beneath the Site appears to be to the west-northwest.

3.2 Groundwater Analytical Results

Analytical results from the third groundwater sampling event are presented in table 2 and on Figure 3. The results of this groundwater sampling event are consistent with the samples previously collected at the Site. With the exception of a detection of TPHd in

the sample collected from MW-3(SS123) at 410 micrograms per liter ($\mu\text{g/L}$), petroleum hydrocarbons (TPHd-range, TPHmo-range hydrocarbons, and BTEX compounds) were not reported above laboratory detection limits in the groundwater samples collected during the reporting period. Results of a laboratory quality assurance and quality control evaluation of the data indicated that the detection of TPHd in the sample from MW-3(SS123) was likely the result of a laboratory artifact. Based on that finding, MW-1(SS123) was re-sampled on January 29, 2009, and petroleum hydrocarbons were not reported in that confirmatory sample. These results confirm that groundwater beneath the Site has not been affected by the TPH or TPH-related compounds that have been detected in limited areas in soil at the Site.

The fourth of the four planned groundwater monitoring events will be conducted during the first quarter of 2009 (January 1 through March 31, 2009), likely March 2009.

4.0 SUMMARY AND RECOMMENDATIONS

The results of the May, June, and September 2008 investigations confirm that shallow and deeper groundwater has not been affected by TPH detected in the subsurface in the SS-123 area. Groundwater elevation data collected from MW-3(SS123) and MW-4(SS123) indicate the presence of two distinct groundwater intervals, with the shallow interval apparently perched above the deeper groundwater interval.

This finding is consistent with the results of the subsurface investigations completed at the Site to date, and supports the conclusion that a perched groundwater zone is present beneath AOC #8, and that the deeper groundwater is separated from the perched groundwater zone by approximately 20 feet of sediments. Grab groundwater samples previously collected from the perched groundwater interval in a localized area contained elevated concentrations of TPHd- and TPHmo-range hydrocarbons associated with asphalt material observed in soil. The deeper groundwater does not appear to have been affected by the asphalt material.

In summary, LFR maintains that TPH concentrations detected in soil and grab groundwater samples collected during previous subsurface investigations, including the May 2008 (soil samples), June 2008 (groundwater samples), and September 2008 (groundwater samples) sampling events, are likely associated with asphalt material observed in soil cores during drilling and do not appear to present an environmental risk to regional groundwater.

LFR will conduct the fourth of four planned monitoring events during the first quarter of 2009. Groundwater samples collected during this monitoring event will be analyzed for the same parameters analyzed for during the current monitoring event (Table 1) A report presenting the results of the fourth sampling event, along with a summary of the previous three events, will be submitted to ACEH by May 11, 2009.

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, express 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 RO0002952 and Geotracker Global ID STL0600101555, Hanson Aggregates Radium Plant, 3000 Busch Road, Pleasanton, CA 94566. February 26.
- LFR Inc. (LFR). 2008a. Work Plan for Additional Site Characterization at AOC #8, Hanson Aggregates Radium Facility, 3000 Busch Road, Pleasanton, California. February 6.
- . 2008b. Site Investigation and Well Installation Report for the SS-123 Area (AOC #8), ACEH Case #RO0002952 and Geotracker Global ID #SL0600101555, Hanson Aggregates Radium Facility, 3000 Busch Road, Pleasanton, California. June 20.
- . 2008c. Groundwater Monitoring Report, July 1 through September 30, 2008, SS-123 Area (AOC #8), Hanson Aggregates Radium Facility, 3000 Busch Road, Pleasanton, California (ACEH Case #RO0002952; Geotracker Global ID #SL0600101555). November 10.
- Regional Water Quality Control Board, San Francisco Bay Region (RWQCB). 2008. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater (Interim Final – November 2007); Environmental Screening Levels (“ESLs”). Technical Document. May.

Table 1
Groundwater Monitoring Well Construction Details
Area of Concern #8/SS-123 Area (Legacy Partners Property)
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Monitoring Well ID	Installation Date	Drilling Technology	Borehole Diameter (inches)	Approximate Borehole Depth (feet bgs)	Casing Diameter (inches)	Approximate Screened Interval (feet bgs)	Top of Casing Elevation ¹ (feet msl)	Depth to Groundwater Measured on 1/12/09 (feet TOC)	Groundwater Elevation on 1/12/09 (feet msl)
MW-3(SS123)	5/22/08	sonic	8.0	71	2.0	60 - 70	373.71	43.68	330.03
MW-4(SS123)	5/23/08	hollow-stem auger	6.0	30	2.0	18 - 28	373.30	24.87	348.43

Notes:

ID = identification; monitoring well identification number

feet bgs = feet below ground surface

feet msl = feet relative to mean sea level

feet TOC = feet below top of casing

¹ Top of casing elevation and land survey conducted by Kim & Wright Civil Engineers & Surveyors, Inc.

Table 2
Petroleum Hydrocarbons and Associated Compounds Detected in Groundwater Samples
Area of Concern #8/SS-123 Area (Legacy Partners Property)
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Groundwater Monitoring Well	Date Sampled	Well Screen Interval (feet bgs)	Matrix	Total Petroleum Hydrocarbons			BTEX Compounds			
				TPHd (µg/L)	TPHmo (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	m,p-X (µg/L)	o-X (µg/L)
MW-3(SS123)	6/5/2008	60 - 70	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	9/22/2008	60 - 70	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1/12/2009 *	60 - 70	water	410	< 500	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1/29/2009	60 - 70	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4(SS123)	6/5/2008	18 - 28	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	9/22/2008	18 - 28	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1/12/2009	18 - 28	water	< 50	< 500	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Quality Assurance and Quality Control Sample										
Trip Blank	9/22/2008	--	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ESLs				100	100	1	40	30	20	20

Notes:

feet bgs = feet below ground surface

µg/L = micrograms per liter

TPHd = total petroleum hydrocarbons as diesel

TPHmo = total petroleum hydrocarbons as motor oil

BTEX = benzene, toluene, ethylbenzene, and total xylenes

"<" = not detected above the laboratory reporting limit given

* = Quality control and quality analysis (QA/QC) procedures indicated possible laboratory contamination was associated with the groundwater sample collected from MW-3(SS123) on January 12, 2009. As a result, another groundwater sample was collected from well MW-3(SS123) on January 29, 2009.

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.

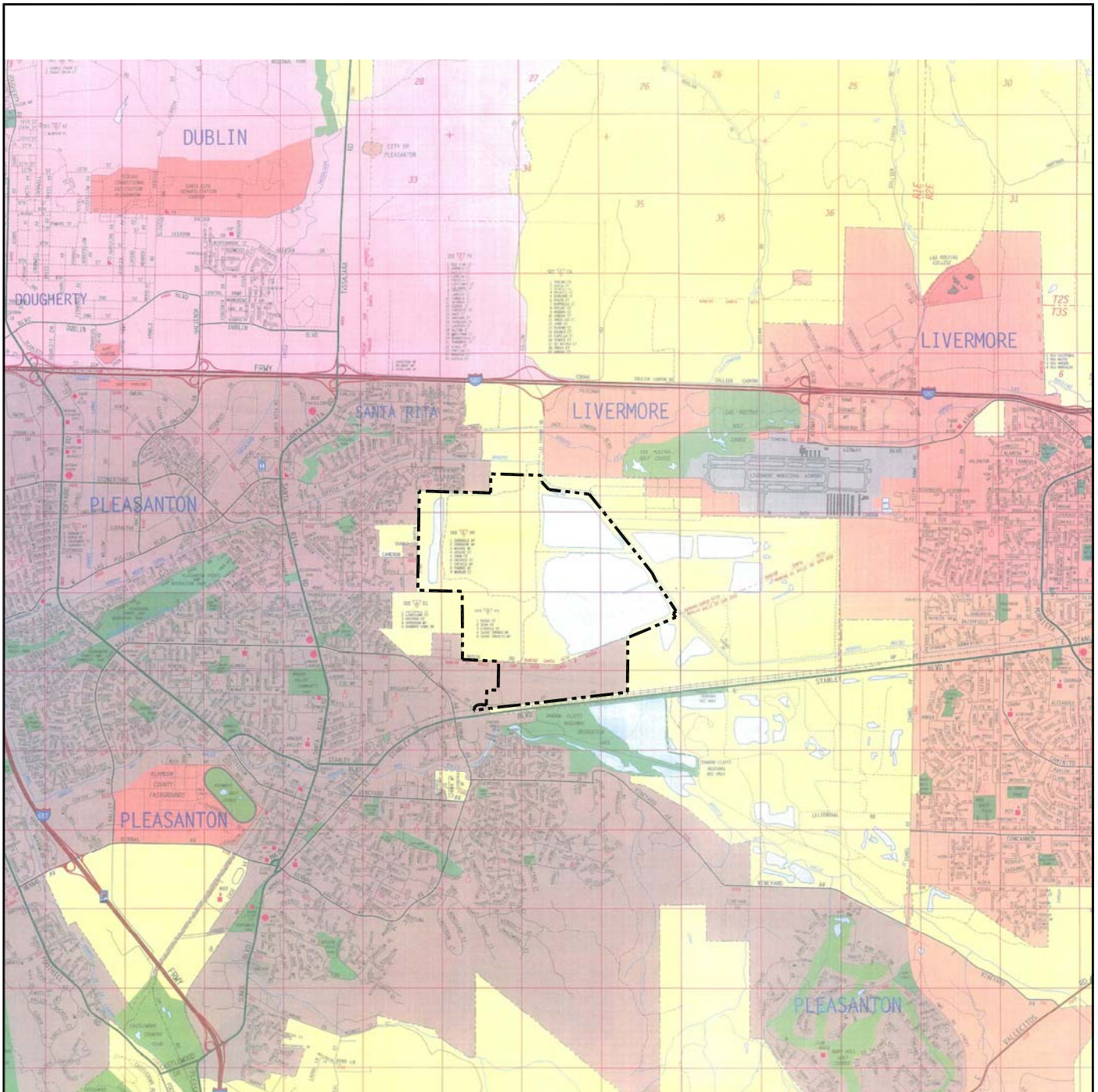
B = benzene

T = toluene

E = ethylbenzene

m,p-X = m,p-xylenes

o-X = o-xylenes



Source: Thomas Guide

EXPLANATION

----- Approximate Site Boundary



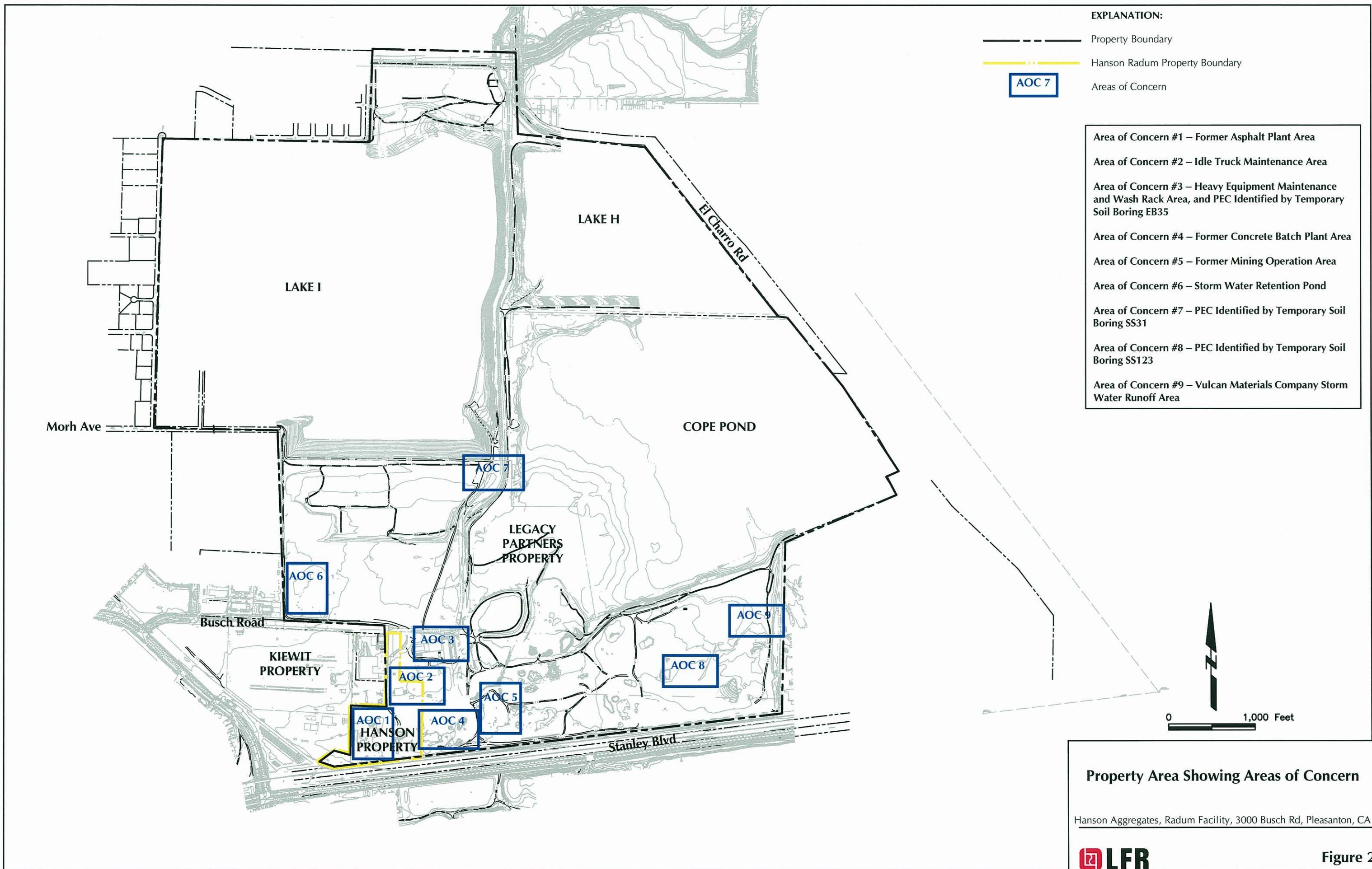
0 5000 FEET
APPROXIMATE SCALE

Site Location Map




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



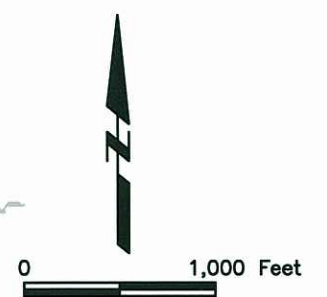
Figure 1



EXPLANATION:

-  Property Boundary
-  Hanson Radum Property Boundary
-  AOC 7
- Areas of Concern

- Area of Concern #1 – Former Asphalt Plant Area
- Area of Concern #2 – Idle Truck Maintenance Area
- Area of Concern #3 – Heavy Equipment Maintenance and Wash Rack Area, and PEC Identified by Temporary Soil Boring EB35
- Area of Concern #4 – Former Concrete Batch Plant Area
- Area of Concern #5 – Former Mining Operation Area
- Area of Concern #6 – Storm Water Retention Pond
- Area of Concern #7 – PEC Identified by Temporary Soil Boring SS31
- Area of Concern #8 – PEC Identified by Temporary Soil Boring SS123
- Area of Concern #9 – Vulcan Materials Company Storm Water Runoff Area

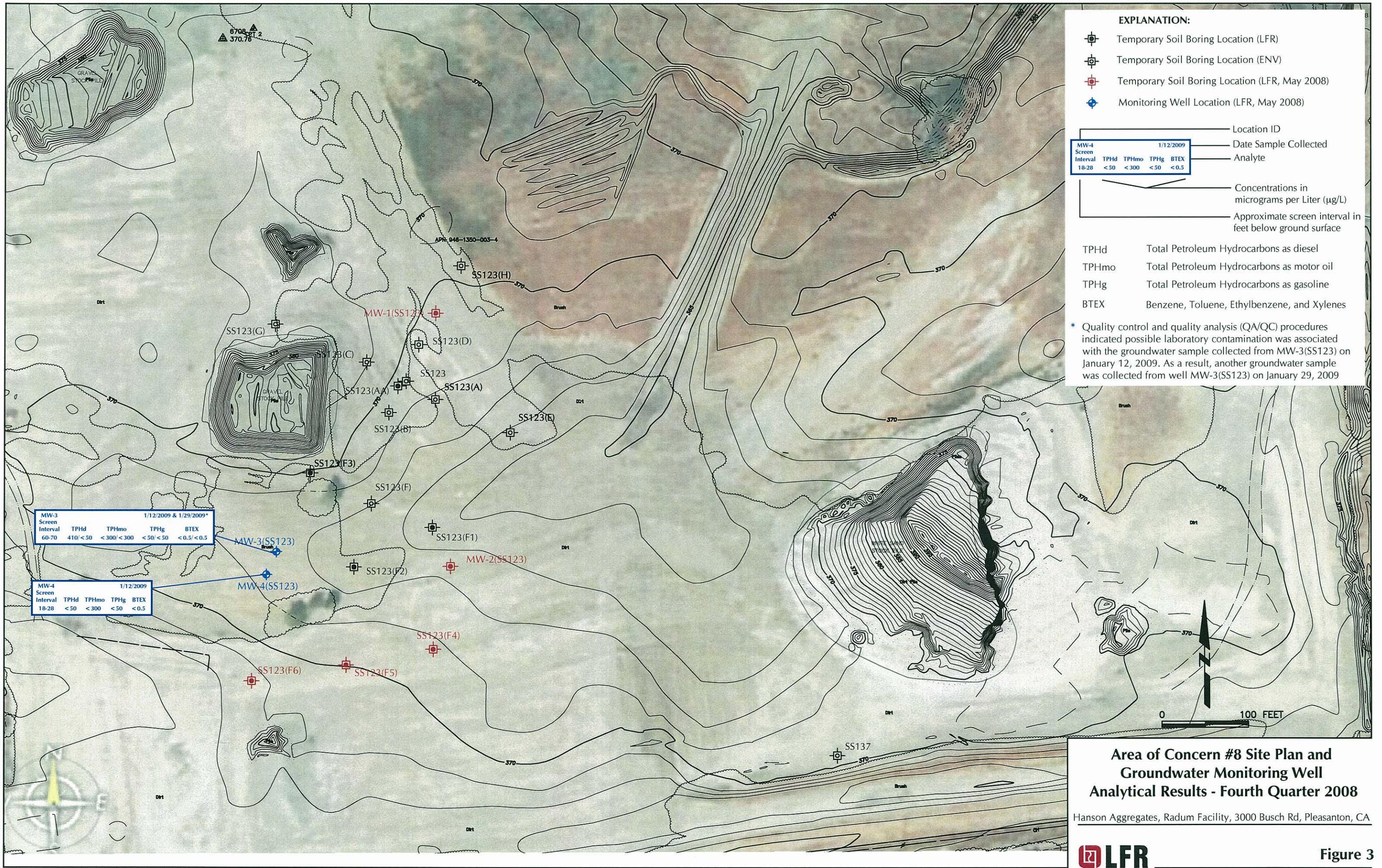


Property Area Showing Areas of Concern

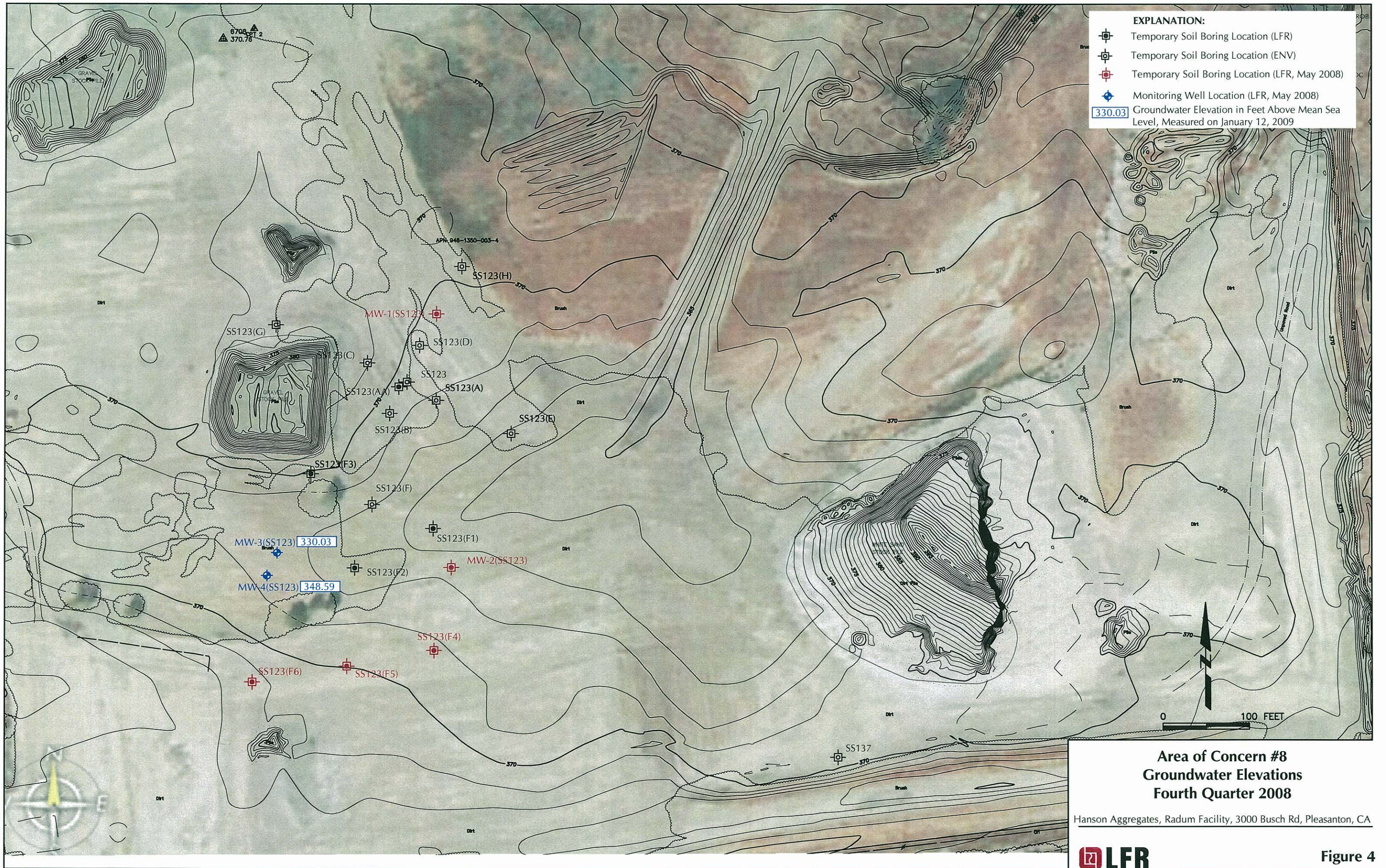
Hanson Aggregates, Radum Facility, 3000 Busch Rd, Pleasanton, CA

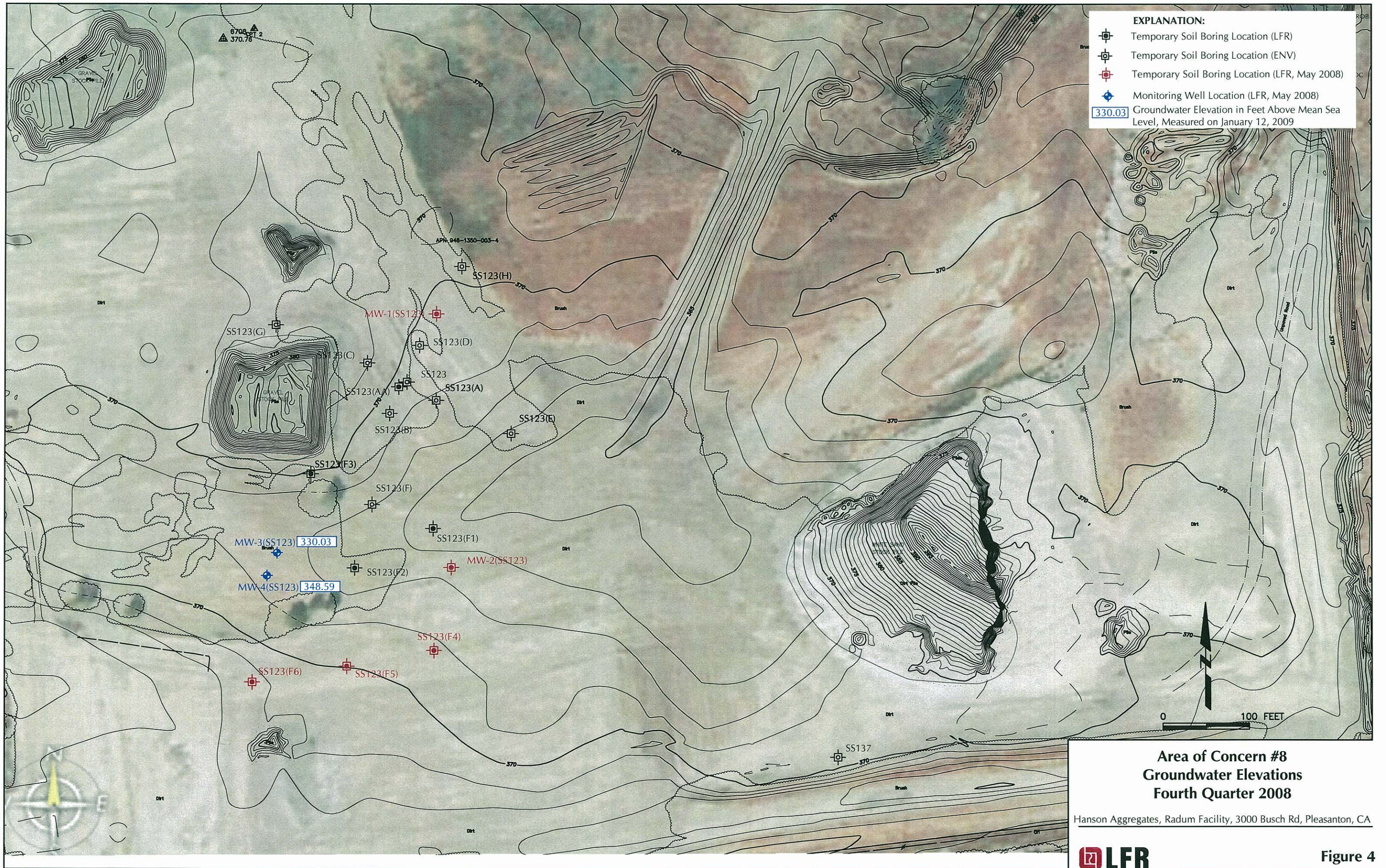


Figure 2



Area of Concern #8 Site Plan and Groundwater Monitoring Well Analytical Results - Fourth Quarter 2008
 Hanson Aggregates, Radum Facility, 3000 Busch Rd, Pleasanton, CA





APPENDIX A

Laboratory Certified Analytical Reports

ANALYTICAL REPORT

Job Number: 720-17612-1

Job Description: Hanson Radum

For:

LFR, Inc.

1900 Powell St 12th Floor
Emeryville, CA 94608-1827

Attention: Mr. Ron Goloubow



Approved for release.
Melissa Brewer
Project Manager I
1/28/2009 3:57 PM

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
01/28/2009
Revision: 1

Job Narrative
720-J17612-1

Comments

Revised Carbon Ranges and added Narrative for Diesel on 1/28/09.

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC Semi VOA

Method 8015B: The following sample contained a hydrocarbon pattern which does not match the diesel fuel #2 or Motor Oil pattern used by the laboratory for quantitative purposes: MW-3 (720-17612-1).

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: LFR, Inc.

Job Number: 720-17612-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-17612-1 <i>Silica Gel Cleanup</i> Diesel Range Organics [C9-C24]	MW-3	410	50	ug/L	8015B

METHOD SUMMARY

Client: LFR, Inc.

Job Number: 720-17612-1

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
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.

SAMPLE SUMMARY

Client: LFR, Inc.

Job Number: 720-17612-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-17612-1	MW-3	Water	01/12/2009 1300	01/12/2009 1634
720-17612-2	MW-4	Water	01/12/2009 1100	01/12/2009 1634

Analytical Data

Client: LFR, Inc.

Job Number: 720-17612-1

Client Sample ID: MW-3

Lab Sample ID: 720-17612-1

Date Sampled: 01/12/2009 1300

Client Matrix: Water

Date Received: 01/12/2009 1634

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-45777 Instrument ID: Varian 3900A
Preparation: 5030B Lab File ID: e:\data\2009\011309\sa-wa-
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 01/13/2009 1753 Final Weight/Volume: 10 mL
Date Prepared: 01/13/2009 1753

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0
Surrogate	%Rec		Acceptance Limits
Toluene-d8 (Surr)	100		78 - 112
1,2-Dichloroethane-d4 (Surr)	76		67 - 126

Analytical Data

Client: LFR, Inc.

Job Number: 720-17612-1

Client Sample ID: MW-4

Lab Sample ID: 720-17612-2

Date Sampled: 01/12/2009 1100

Client Matrix: Water

Date Received: 01/12/2009 1634

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-45777 Instrument ID: Varian 3900A
Preparation: 5030B Lab File ID: e:\data\2009\011309\sa-wa-
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 01/13/2009 1924 Final Weight/Volume: 10 mL
Date Prepared: 01/13/2009 1924

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	101	78 - 112
1,2-Dichloroethane-d4 (Surr)	80	67 - 126

Analytical Data

Client: LFR, Inc.

Job Number: 720-17612-1

Client Sample ID: MW-3

Lab Sample ID: 720-17612-1

Date Sampled: 01/12/2009 1300

Client Matrix: Water

Date Received: 01/12/2009 1634

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

Method:	8015B	Analysis Batch: 720-45940	Instrument ID: HP DRO5
Preparation:	3510C SGC	Prep Batch: 720-45780	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 250 mL
Date Analyzed:	01/15/2009 1903		Final Weight/Volume: 1 mL
Date Prepared:	01/14/2009 1235		Injection Volume:
			Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Motor Oil Range Organics [C24-C36]	ND		300
Diesel Range Organics [C9-C24]	410		50

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	1	0 - 5
p-Terphenyl	63	46 - 114

Analytical Data

Client: LFR, Inc.

Job Number: 720-17612-1

Client Sample ID: MW-4

Lab Sample ID: 720-17612-2

Date Sampled: 01/12/2009 1100

Client Matrix: Water

Date Received: 01/12/2009 1634

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

Method:	8015B	Analysis Batch: 720-45940	Instrument ID:	HP DRO5
Preparation:	3510C SGC	Prep Batch: 720-45780	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	250 mL
Date Analyzed:	01/15/2009 1930		Final Weight/Volume:	1 mL
Date Prepared:	01/14/2009 1235		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	67	46 - 114

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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Quality Control Results

Client: LFR, Inc.

Job Number: 720-17612-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-45777					
LCS 720-45777/13	Lab Control Spike	T	Water	8260B/CA_LUFT	
LCSD 720-45777/12	Lab Control Spike Duplicate	T	Water	8260B/CA_LUFT	
MB 720-45777/3	Method Blank	T	Water	8260B/CA_LUFT	
720-17612-1	MW-3	T	Water	8260B/CA_LUFT	
720-17612-1MS	Matrix Spike	T	Water	8260B/CA_LUFT	
720-17612-1MSD	Matrix Spike Duplicate	T	Water	8260B/CA_LUFT	
720-17612-2	MW-4	T	Water	8260B/CA_LUFT	

Report Basis

T = Total

GC Semi VOA

Prep Batch: 720-45780					
LCS 720-45780/2-A	Lab Control Spike	A	Water	3510C SGC	
LCSD 720-45780/3-A	Lab Control Spike Duplicate	A	Water	3510C SGC	
MB 720-45780/1-A	Method Blank	A	Water	3510C SGC	
720-17612-1	MW-3	A	Water	3510C SGC	
720-17612-2	MW-4	A	Water	3510C SGC	
Analysis Batch:720-45940					
LCS 720-45780/2-A	Lab Control Spike	A	Water	8015B	720-45780
LCSD 720-45780/3-A	Lab Control Spike Duplicate	A	Water	8015B	720-45780
MB 720-45780/1-A	Method Blank	A	Water	8015B	720-45780
720-17612-1	MW-3	A	Water	8015B	720-45780
720-17612-2	MW-4	A	Water	8015B	720-45780

Report Basis

A = Silica Gel Cleanup

Quality Control Results

Client: LFR, Inc.

Job Number: 720-17612-1

Method Blank - Batch: 720-45777

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

Lab Sample ID: MB 720-45777/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/13/2009 0935
Date Prepared: 01/13/2009 0935

Analysis Batch: 720-45777
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: e:\data\2009\011309\mb-w:
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0
<hr/>			
Surrogate	% Rec	Acceptance Limits	
Toluene-d8 (Surr)	103	78 - 112	
1,2-Dichloroethane-d4 (Surr)	94	67 - 126	

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-45777**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-45777/13
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/13/2009 1258
Date Prepared: 01/13/2009 1258

Analysis Batch: 720-45777
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: e:\data\2009\011309\ls-wa-
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-45777/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/13/2009 1321
Date Prepared: 01/13/2009 1321

Analysis Batch: 720-45777
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: e:\data\2009\011309\ld-wa-9
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	103	96	67 - 120	7	20		
Toluene	89	74	73 - 122	19	20		
<hr/>							
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	111		93		78 - 112		
1,2-Dichloroethane-d4 (Surr)	68		97		67 - 126		

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

Quality Control Results

Client: LFR, Inc.

Job Number: 720-17612-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-45777**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

MS Lab Sample ID: 720-17612-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/13/2009 1816
Date Prepared: 01/13/2009 1816

Analysis Batch: 720-45777
Prep Batch: N/A

Instrument ID: Varian 3900A
Lab File ID: e:\data\2009\011309\sa-w
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-17612-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/13/2009 1839
Date Prepared: 01/13/2009 1839

Analysis Batch: 720-45777
Prep Batch: N/A

Instrument ID: Varian 3900A
Lab File ID: e:\data\2009\011309\sa-wa
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	107	98	58 - 134	8	20		
Toluene	90	78	72 - 129	14	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
Toluene-d8 (Surr)	109		99	78 - 112			
1,2-Dichloroethane-d4 (Surr)	82		76	67 - 126			

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

Quality Control Results

Client: LFR, Inc.

Job Number: 720-17612-1

Method Blank - Batch: 720-45780

Lab Sample ID: MB 720-45780/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/15/2009 1146
 Date Prepared: 01/14/2009 1235

Analysis Batch: 720-45940
 Prep Batch: 720-45780
 Units: ug/L

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

Instrument ID: HP DRO5
 Lab File ID: N/A
 Initial Weight/Volume: 250 mL
 Final Weight/Volume: 1 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	88		46 - 114

**Lab Control Spike/
 Lab Control Spike Duplicate Recovery Report - Batch: 720-45780**

LCS Lab Sample ID: LCS 720-45780/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/15/2009 1213
 Date Prepared: 01/14/2009 1235

Analysis Batch: 720-45940
 Prep Batch: 720-45780
 Units: ug/L

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

Instrument ID: HP DRO5
 Lab File ID: N/A
 Initial Weight/Volume: 250 mL
 Final Weight/Volume: 1 mL
 Injection Volume:
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-45780/3-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/15/2009 1240
 Date Prepared: 01/14/2009 1235

Analysis Batch: 720-45940
 Prep Batch: 720-45780
 Units: ug/L

Instrument ID: HP DRO5
 Lab File ID: N/A
 Initial Weight/Volume: 250 mL
 Final Weight/Volume: 1 mL
 Injection Volume:
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C9-C24]	96	97	41 - 103	1	30		
Surrogate		LCS % Rec	LCSD % Rec			Acceptance Limits	
p-Terphenyl		111	114			46 - 114	

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

Brewer, Melissa

720-17612 - email

From: Goloubow, Ron [Ron.Goloubow@lfr.com]
Sent: Tuesday, January 13, 2009 5:27 PM
To: Brewer, Melissa
Subject: RE: Sample Login Confirmation for 720-17612: Hanson Radum

Please place the TB ON hold with samples this submission, MW3 & MW 4 also we do not need the lead scavengers for the MW3 & MW 4 samples.

Ron Goloubow
LFR Inc.
510-596-9550 Direct Dial
510-501-1789 Cell
510-652-4906 Facsimile
ron.goloubow@lfr.com

From: Brewer, Melissa [mailto:melissa.brewer@testamericainc.com]
Sent: Tuesday, January 13, 2009 5:01 PM
To: Goloubow, Ron
Subject: Sample Login Confirmation for 720-17612: Hanson Radum

Logged for Silica Gel Cleanup per Tom's phone call to Dimple. Could you verify this?

Also, it doesn't look like we have special quoted prices for Silica Gel Cleanup, so we will be charging \$15.00 per sample. Please let me know if this is a problem.

This is one of the projects that came in with a TB (2 VOAs). No mention of the Trip Blank was made on the COCs. Could you let me know where to put the sample- with this submission or with MW-8? Again, we can leave it on hold, but I need to associate it with one submission or the other.

Thanks.

MELISSA BREWER

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484.1919
www.testamericainc.com

Reference: [036965]
Attachments: 3

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CHAIN OF CUSTODY - ANALYSES REQUEST FORM

114197

SAMPLE COLLECTOR: LFR 1900 Powell Street, 12th Floor Emeryville, California 94608 (510) 652-4500 Fax: (510) 652-2246	PROJECT NO.:	SECTION NO.:	DATE:	SAMPLER'S INITIALS:	SERIAL NO.:
	001-0956707			1/12/09	TTC
PROJECT NAME:			SAMPLER (Signature):		
Harrison Roadum			Tom Collins		

SAMPLE			ANALYSES										REMARKS	
SAMPLE ID.	DATE	TIME	Lab Sample No.		TYPE							TAT	*VOCs:	**Metals:
			No. of Containers	Soil	Water	TPHd (EPA 8015M)	TPHmo (EPA 8015M)	TPHg (EPA 8015M)	BTEX (EPA 8015M)	VOCs (EPA 8021/602)	Metals (EPA 8260/624)			
MW-3	1/12	1300	X	X	X	X						X	<input type="checkbox"/> 8260 List	<input type="checkbox"/> CAM17
MW-4	1/12	1100	X	X	X	X						X	<input type="checkbox"/> 8240 List	<input type="checkbox"/> RCRA
													<input type="checkbox"/> 8010 List	<input type="checkbox"/> LUFT
													<input type="checkbox"/> 624 List	

SAMPLE RECEIPT: <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Cold <input checked="" type="checkbox"/> On Ice <input type="checkbox"/> Ambient Cooler Temp: 5.3°C Cooler No.: Preservative Correct? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	METHOD OF SHIPMENT:	RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:
	Hand	Tom Collins 1/12/09 16:34		
LAB REPORT NO.:		(SIGNATURE)	(DATE)	(SIGNATURE)
FAX COC CONFIRMATION TO:		(PRINTED NAME)	(TIME)	(PRINTED NAME)
Ron Goldbow		LFR		
(COMPANY)		(COMPANY)	(TIME)	(COMPANY)

ANALYTICAL LABORATORY: FAX RESULTS TO: SEND HARDCOPY TO: SEND EDD TO: ENV.LABEDDS.COM	RECEIVED BY:	RECEIVED BY:	RECEIVED BY (LABORATORY):
	Ron Goldbow 1/12/09 16:34		
(SIGNATURE)	(DATE)	(SIGNATURE)	(DATE)
(PRINTED NAME)	(TIME)	(PRINTED NAME)	(TIME)
TEST AMERICA			
(COMPANY)	(COMPANY)	(COMPANY)	(COMPANY)

Login Sample Receipt Check List

Client: LFR, Inc.

Job Number: 720-17612-1

Login Number: 17612
Creator: Bullock, Tracy
List Number: 1

List Source: TestAmerica San Francisco

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.	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	

ANALYTICAL REPORT

Job Number: 720-17887-1
Job Description: Hanson Radum

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



Approved for release.
Melissa Brewer
Project Manager I
2/4/2009 12:50 PM

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
02/04/2009

cc: Mr. Jason Triolo

Job Narrative
720-J17887-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS 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: 720-17887-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
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No Detections

METHOD SUMMARY

Client: LFR, Inc.

Job Number: 720-17887-1

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
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.

SAMPLE SUMMARY

Client: LFR, Inc.

Job Number: 720-17887-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-17887-1	MW-3	Water	01/29/2009 1355	01/29/2009 1503
720-17887-1MS	MW-3	Water	01/29/2009 1355	01/29/2009 1503
720-17887-1MSD	MW-3	Water	01/29/2009 1355	01/29/2009 1503
720-17887-2TB	TB-012909	Water	01/29/2009 0000	01/29/2009 1503

Analytical Data

Client: LFR, Inc.

Job Number: 720-17887-1

Client Sample ID: MW-3

Lab Sample ID: 720-17887-1

Date Sampled: 01/29/2009 1355

Client Matrix: Water

Date Received: 01/29/2009 1503

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-46398 Instrument ID: Varian 3900C
Preparation: 5030B Lab File ID: e:\data\200901\013009\sa-
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 01/30/2009 1645 Final Weight/Volume: 40 mL
Date Prepared: 01/30/2009 1645

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	90	78 - 112
1,2-Dichloroethane-d4 (Surr)	109	67 - 126

Analytical Data

Client: LFR, Inc.

Job Number: 720-17887-1

Client Sample ID: TB-012909

Lab Sample ID: 720-17887-2TB

Date Sampled: 01/29/2009 0000

Client Matrix: Water

Date Received: 01/29/2009 1503

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-46398 Instrument ID: Varian 3900C
Preparation: 5030B Lab File ID: e:\data\200901\013009\sa-
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 01/30/2009 1619 Final Weight/Volume: 40 mL
Date Prepared: 01/30/2009 1619

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	99	78 - 112
1,2-Dichloroethane-d4 (Surr)	96	67 - 126

Analytical Data

Client: LFR, Inc.

Job Number: 720-17887-1

Client Sample ID: MW-3

Lab Sample ID: 720-17887-1

Date Sampled: 01/29/2009 1355

Client Matrix: Water

Date Received: 01/29/2009 1503

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

Method:	8015B	Analysis Batch: 720-46480	Instrument ID: HP DRO5
Preparation:	3510C SGC	Prep Batch: 720-46375	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 250 mL
Date Analyzed:	02/02/2009 1646		Final Weight/Volume: 1 mL
Date Prepared:	01/30/2009 1215		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	86	46 - 114

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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Quality Control Results

Client: LFR, Inc.

Job Number: 720-17887-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-46398					
LCS 720-46398/2	Lab Control Spike	T	Water	8260B/CA_LUFT	
LCSD 720-46398/1	Lab Control Spike Duplicate	T	Water	8260B/CA_LUFT	
MB 720-46398/3	Method Blank	T	Water	8260B/CA_LUFT	
720-17887-1	MW-3	T	Water	8260B/CA_LUFT	
720-17887-1MS	Matrix Spike	T	Water	8260B/CA_LUFT	
720-17887-1MSD	Matrix Spike Duplicate	T	Water	8260B/CA_LUFT	
720-17887-2TB	TB-012909	T	Water	8260B/CA_LUFT	

Report Basis

T = Total

GC Semi VOA

Prep Batch: 720-46375					
LCS 720-46375/2-A	Lab Control Spike	A	Water	3510C SGC	
LCSD 720-46375/3-A	Lab Control Spike Duplicate	A	Water	3510C SGC	
MB 720-46375/1-A	Method Blank	A	Water	3510C SGC	
720-17887-1	MW-3	A	Water	3510C SGC	
720-17887-1MS	Matrix Spike	A	Water	3510C SGC	
720-17887-1MSD	Matrix Spike Duplicate	A	Water	3510C SGC	
Analysis Batch:720-46480					
LCS 720-46375/2-A	Lab Control Spike	A	Water	8015B	720-46375
LCSD 720-46375/3-A	Lab Control Spike Duplicate	A	Water	8015B	720-46375
MB 720-46375/1-A	Method Blank	A	Water	8015B	720-46375
720-17887-1	MW-3	A	Water	8015B	720-46375
720-17887-1MS	Matrix Spike	A	Water	8015B	720-46375
720-17887-1MSD	Matrix Spike Duplicate	A	Water	8015B	720-46375

Report Basis

A = Silica Gel Cleanup

Quality Control Results

Client: LFR, Inc.

Job Number: 720-17887-1

Method Blank - Batch: 720-46398

Lab Sample ID: MB 720-46398/3
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/30/2009 0950
 Date Prepared: 01/30/2009 0950

Analysis Batch: 720-46398
 Prep Batch: N/A
 Units: ug/L

**Method: 8260B/CA_LUFTMS
 Preparation: 5030B**

Instrument ID: Varian 3900C
 Lab File ID: e:\data\200901\013009\mb
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0
<hr/>			
Surrogate	% Rec	Acceptance Limits	
Toluene-d8 (Surr)	97	78 - 112	
1,2-Dichloroethane-d4 (Surr)	98	67 - 126	

**Lab Control Spike/
 Lab Control Spike Duplicate Recovery Report - Batch: 720-46398**

**Method: 8260B/CA_LUFTMS
 Preparation: 5030B**

LCS Lab Sample ID: LCS 720-46398/2
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/30/2009 1022
 Date Prepared: 01/30/2009 1022

Analysis Batch: 720-46398
 Prep Batch: N/A
 Units: ug/L

Instrument ID: Varian 3900C
 Lab File ID: e:\data\200901\013009\ls-v
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-46398/1
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 01/30/2009 1048
 Date Prepared: 01/30/2009 1048

Analysis Batch: 720-46398
 Prep Batch: N/A
 Units: ug/L

Instrument ID: Varian 3900C
 Lab File ID: e:\data\200901\013009\ld-w
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	97	94	74 - 112	3	20		
Toluene	89	86	65 - 98	4	20		
<hr/>							
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	105		98		78 - 112		
1,2-Dichloroethane-d4 (Surr)	118		113		67 - 126		

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

Quality Control Results

Client: LFR, Inc.

Job Number: 720-17887-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-46398**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

MS Lab Sample ID: 720-17887-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/30/2009 1711
Date Prepared: 01/30/2009 1711

Analysis Batch: 720-46398
Prep Batch: N/A

Instrument ID: Varian 3900C
Lab File ID: e:\data\200901\013009\sa-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

MSD Lab Sample ID: 720-17887-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/30/2009 1736
Date Prepared: 01/30/2009 1736

Analysis Batch: 720-46398
Prep Batch: N/A

Instrument ID: Varian 3900C
Lab File ID: e:\data\200901\013009\sa-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	99	102	58 - 134	3	20		
Toluene	84	89	72 - 129	7	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	90		97		78 - 112		
1,2-Dichloroethane-d4 (Surr)	109		101		67 - 126		

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

Quality Control Results

Client: LFR, Inc.

Job Number: 720-17887-1

Method Blank - Batch: 720-46375

Lab Sample ID: MB 720-46375/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 02/02/2009 1030
 Date Prepared: 01/30/2009 1215

Analysis Batch: 720-46480
 Prep Batch: 720-46375
 Units: ug/L

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

Instrument ID: HP DRO5
 Lab File ID: N/A
 Initial Weight/Volume: 250 mL
 Final Weight/Volume: 1 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
<hr/>			
Surrogate	% Rec	Acceptance Limits	
Capric Acid (Surr)	0	0 - 5	
p-Terphenyl	81	46 - 114	

**Lab Control Spike/
 Lab Control Spike Duplicate Recovery Report - Batch: 720-46375**

LCS Lab Sample ID: LCS 720-46375/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 02/02/2009 0937
 Date Prepared: 01/30/2009 1215

Analysis Batch: 720-46480
 Prep Batch: 720-46375
 Units: ug/L

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

Instrument ID: HP DRO5
 Lab File ID: N/A
 Initial Weight/Volume: 250 mL
 Final Weight/Volume: 1 mL
 Injection Volume:
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-46375/3-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 02/02/2009 1003
 Date Prepared: 01/30/2009 1215

Analysis Batch: 720-46480
 Prep Batch: 720-46375
 Units: ug/L

Instrument ID: HP DRO5
 Lab File ID: N/A
 Initial Weight/Volume: 250 mL
 Final Weight/Volume: 1 mL
 Injection Volume:
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C9-C24]	77	75	41 - 103	2	30		
<hr/>							
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
p-Terphenyl	86		84		46 - 114		

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

Quality Control Results

Client: LFR, Inc.

Job Number: 720-17887-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-46375**

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

MS Lab Sample ID: 720-17887-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/02/2009 1712
Date Prepared: 01/30/2009 1215

Analysis Batch: 720-46480
Prep Batch: 720-46375

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

MSD Lab Sample ID: 720-17887-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/02/2009 1739
Date Prepared: 01/30/2009 1215

Analysis Batch: 720-46480
Prep Batch: 720-46375

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Diesel Range Organics [C9-C24]	60	58	50 - 130	3	30		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
p-Terphenyl		86	82			46 - 114	

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

TestAmerica

TESTAMERICA San Francisco Chain of Custody
 1220 Quarry Lane • Pleasanton CA 94566-4756
 Phone: (925) 484-1919 • Fax: (925) 600-3002

720-17887

Reference #: 114309

Date 1-29-09 Page 1 of 1

THE LEADER IN ENVIRONMENTAL TESTING

Report To						Analysis Request																			
Attn: <u>Jason Triolo + Ken Golubow</u>						<input type="checkbox"/> TPH EPA-8015M <input type="checkbox"/> 8260B <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> Purgeable Aromatics <input type="checkbox"/> BTEX EPA-8021 <input type="checkbox"/> 8260B <input checked="" type="checkbox"/> TEPH EPA 8015M <input checked="" type="checkbox"/> Silica Gel <input type="checkbox"/> Other <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Motor Oil <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Fuel Tests EPA 8260B <input type="checkbox"/> DCA <input type="checkbox"/> EDB <input type="checkbox"/> Chloroform <input type="checkbox"/> Purgeable Halocarbons (HVOCS) EPA 8021 by 8260B <input type="checkbox"/> Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624 <input type="checkbox"/> Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 825 <input type="checkbox"/> Oil and Grease <input type="checkbox"/> Petroleum (EPA 1654) <input type="checkbox"/> Total <input type="checkbox"/> Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608 <input type="checkbox"/> PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608 <input type="checkbox"/> PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310 <input type="checkbox"/> CAM17 Metals (EPA 6010/7470/7471) <input type="checkbox"/> Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: <input type="checkbox"/> Low Level Metals by EPA 200.86202 (ICP-MS) <input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP <input type="checkbox"/> Hexavalent Chromium pH (24h hold time for H ₂ O) <input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS <input type="checkbox"/> <input type="checkbox"/> Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄																			
Company: <u>LPR</u>																									
Address: <u>1900 Powell St. Emeryville CA</u>																									
Phone: <u>510-652-4500</u> Email:																									
Bill To: <u>LPR</u> Sampled By: <u>Rob Maniz</u>																									
Attn: Phone:																									
Sample ID	Date	Time	Mat rix	Pres erv.																					
<u>MW-3</u>	<u>1-29-09</u>	<u>1355</u>	<u>H₂O</u>	<u>HCl</u>	<input checked="" type="checkbox"/>																				
<u>TB-012909</u>	<u>1-29-09</u>	<u>-</u>	<u>H₂O</u>	<u>HCl</u>	<input checked="" type="checkbox"/>																				

-Silica gel 4
 cleanup 2
 -Decant numbers 16
 before sample

Project Info.		Sample Receipt			
Project Name: <u>Hanson Radon</u>		# of Containers: <u>6</u> <u>Rad</u>			
Project#: <u>001-09567-01</u>		Head Space:			
PO#:		Temp: <u>13.9°C = 4HWS</u>			
Credit Card#:		Conforms to record:			
T	<u>5</u>	72h	48h	24h	Other:
A	Day				
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EDF Special Instructions / Comments: <input type="checkbox"/> Global ID					
See Terms and Conditions on reverse *TestAmerica SF reports 8015M from C ₂ -C ₂₄ (Industry norm). Default for 8015B is C ₁₀ -C ₂₈					

1) Relinquished by: <u>Rob Maniz</u> <u>1503</u> Signature Time <u>Rob Maniz</u> Printed Name Date <u>LPR</u> <u>1-29-09</u> Company		2) Relinquished by: Signature Time Printed Name Date Company		3) Relinquished by: Signature Time Printed Name Date Company	
1) Received by: <u>Sh Bullock</u> <u>15:03</u> Signature Time <u>T Bullock</u> <u>1/29/09</u> Printed Name Date <u>TEST AMERICA</u> Company		2) Received by: Signature Time Printed Name Date Company		3) Received by: Signature Time Printed Name Date Company	

Login Sample Receipt Check List

Client: LFR, Inc.

Job Number: 720-17887-1

Login Number: 17887
Creator: Bullock, Tracy
List Number: 1

List Source: TestAmerica San Francisco

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.	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	

APPENDIX B

**Groundwater Monitoring Well
Sampling Field Sheets**

Project No. 001-09567-01

Date 1-29-09 Page 1 of 1

Project Name Hanson Radom

Day: Sun Mon Tues Weds Thurs Fri Sat

Personnel Inspector Rob Moniz

Weather/Site Conditions Sunny mild 50-70°

Task No. and Description Sample MW-3

WORK FORCE

COMPANY NAME	SUPERVISORS/WORKERS	ON SITE		COMMENTS
		FROM	TO	
<u>LFR</u>	<u>1</u>	<u>0930</u>	<u>1430</u>	<u>Rob Moniz</u>
<u>ENU Amer.</u>	<u>1</u>	<u>?</u>	<u>1430</u>	<u>Charlie Rowe - already on site working on separate project.</u>

EQUIPMENT

ITEM	OWNER	USED		COMMENTS
		FROM	TO	
<u>Truck 10</u>	<u>LFR</u>	<u>0900</u>		

TIME	ACTIVITIES
<u>0900</u>	<u>At Test America to pick up bottles</u>
<u>0930</u>	<u>Arrive on site - Meet Charlie Rowe</u>
<u>0953</u>	<u>WL = 24.71' in MW-4</u>
<u>1000</u>	<u>WL = 45.55' in MW-3</u>
<u>1040</u>	<u>Low flow pump well w/ submersible</u>
<u>1115</u>	<u>Parameters stabilize but water level drawdown = continue to de-water well</u>
<u>1230</u>	<u>Water level up ~5' but still too low to sample</u> <u>- lunch w/ Charlie + Harry (Test America)</u>
<u>1355</u>	<u>Water level still low but > 2 hrs has past = <u>Sample</u></u>
<u>1430</u>	<u>cleaned up & off site</u>
<u>1503</u>	<u>Samples delivered to Test America</u>

continue on reverse as needed

Route Copies To: _____

SIGNED [Signature] 1-29-09

Project No. 001-09567- Date: 1-29-09 Page 1 of 1
 Project Name: Hanson Radium Sampling Location: _____
 Sampler's Name: Bob Moniz Sample No.: MW-3 FB
 Sampling Plan By: _____ Dated: _____ C.O.C. No.: _____ DUP
 Purge Method: Centrifugal Pump Disposable Bailer Hand Bailer Submersible Pump Teflon Bailer Other Low-Flow
 Purge Water Storage Container Type: 55 gal Drum Storage Location: _____
 Date Purge Water Disposed: _____ Where Disposed: _____

Analyses Requested: TPH demo w/ Silica Gel No. and Type of Bottles Used: 1 L Amber (1)
BTEX 100's (3)

Lab Name: Test America
 Delivery By Courier Hand

Well No. MW-3 Depth of Water 45.55'
 Well Diameter: 2" Well Depth 71.00'
 2" (0.16 gal/feet) 5" (1.02 gal/feet) Water Column Height 25.45'
 4" (0.65 gal/feet) 6" (1.47 gal/feet) Well Volume 4.07 gal
w/ pump in

Handwritten calculations:

$$\begin{array}{r} 66 \\ 71.00 \\ - 45.55 \\ \hline 25.45 \\ \hline 25.45 \\ + 1.16 \\ \hline 26.61 \\ \hline 254.50 \\ \hline 4.0720 \end{array}$$

 80% DTW 50.64'

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	DO (mg/L)	Temperature (C°)	PH (SU)	Cond (uS/cm C)	ORP (mV)	Remarks	
1040	~65'	43.55	—	—	—	—	—	—	Begin	
1046		48.50	0.5	2.01	17.79	6.24	2024	-189.6		
1050		49.50	0.75	1.57	18.04	6.38	2025	-179.0		
1055		50.7	1.00	1.01	18.23	6.51	2025	-172.0		
1100		51.1	1.25	0.85	18.55	6.60	2224	-171.7		
1104		52.4	1.50	0.78	18.90	6.60	2039	-172.8		
1108		53.3	2.0	0.70	19.86	6.62	2036	-187.3		
1111		54.3	2.25	0.67	20.40	6.64	2033	-190.4	- Pump cleared?	
1115		55.7	2.50	0.70	26.50	6.64	2060	-200.4	rate of flow increased dramatically.	
1120		56.1	~4.5	Increase flow rate + draw water well						No Sample, wait to recharge 80% or 2 hrs
1230		64.50	2.50	—	—	—	—	—		
1353		62.18	2.75	3.37	18.82	6.87	2021	-120.7		
1355									Sample by bailer	
									H ₂ O is hazier than when pumping...	

Continue remarks on reverse, if needed.

TestAmerica

TESTAMERICA San Francisco Chain of Custody
 1220 Quarry Lane • Pleasanton CA 94566-4756
 Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

THE LEADER IN ENVIRONMENTAL TESTING

Date 1-29-09 Page 1 of 1

Report To					Analysis Request																			
Attn: <u>Jason Triolo + Ken Golobkow</u>																								
Company: <u>LPR</u>																								
Address: <u>1900 Powell St. Emeryville CA</u>																								
Phone: <u>510-652-4500</u> Email: _____																								
Bill To: <u>LPR</u>		Sampled By: <u>Rob Maniz</u>																						
Attn: _____		Phone: _____																						
Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA 8015M* <input type="checkbox"/> 8260B	Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTEX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 8260B	TEPH EPA 8015M* <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other _____	Fuel Tests EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Five Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Chloroform	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 601074707471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: _____	Low Level Metals by EPA 200.8/6020 (ICP-MS): _____	W.E.T (STLC) <input type="checkbox"/> TCLP <input type="checkbox"/>	Hexavalent Chromium pH (24h hold time for H ₂ O) <input type="checkbox"/> <input type="checkbox"/>	Spec Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS <input type="checkbox"/>	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄		
<u>MW-3</u>	<u>1-29-09</u>	<u>1355</u>	<u>H₂O</u>	<u>HCl</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																
<u>TB-012909</u>	<u>1-29-09</u>	<u>-</u>	<u>H₂O</u>	<u>HCl</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
<u>COPY</u>																								

-Silica gel cleanup
 -Decant samples before sampling

Project Info.		Sample Receipt	
Project Name: <u>Hanson Radon</u>	# of Containers: <u>6</u> <u>can</u>		
Project#: <u>001-09567-01</u>	Head Space: _____		
PO#: _____	Temp: <u>13.9°C</u> <u>24HRS</u>		
Credit Card#: _____	Conforms to record: _____		
T A T	<u>5</u> Day	72h	48h
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EDF <input type="checkbox"/> Global ID _____		Special Instructions / Comments: _____	

1) Relinquished by: <u>Rob Maniz</u> <u>1503</u> Signature _____ Time _____ <u>Rob Maniz</u> Printed Name _____ Date _____ <u>LPR</u> <u>1-29-09</u> Company _____
1) Received by: <u>JT Bullock</u> <u>15:03</u> Signature _____ Time _____ <u>T Bullock</u> <u>1/29/09</u> Printed Name _____ Date _____ <u>TEST AMERICA</u> Company _____

2) Relinquished by: Signature _____ Time _____ Printed Name _____ Date _____ Company _____
2) Received by: Signature _____ Time _____ Printed Name _____ Date _____ Company _____

3) Relinquished by: Signature _____ Time _____ Printed Name _____ Date _____ Company _____
3) Received by: Signature _____ Time _____ Printed Name _____ Date _____ Company _____

See Terms and Conditions on reverse
 *TestAmerica SF reports 8015M from C₉-C₂₄ (Industry norm). Default for 8015B is C₁₀-C₂₈



WATER-QUALITY SAMPLING LOG

Project No. 001-09567-06 Date 1/12/09 Page 1 of 1
 Project Name Hanson Radon Sampling Location MW-4
 Sampler's Name Tom Collins Sample No. MW-4 FB
 Sampling Plan By _____ 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 _____
 Date Purge Water Disposed _____ Where Disposed _____

Analyses Requested _____ No. and Type of Bottles Used _____

 Lab Name TLST American
 Delivery By Courier Hand

Well No. MW-4 Depth of Water 24.87
 Well Diameter: 2" Well Depth 30'
 2" (0.16 gal/feet) 5" (1.02 gal/feet) Water Column Height _____
 4" (0.65 gal/feet) 6" (1.47 gal/feet) Well Volume _____

AOC-8

80% DTW _____

Time	Inlet Depth	Depth to Water	Volume Purged (gal)	Totalizer Reading	Temperature (C°)	pH (SU)	Cond (µmhos)	Turb (NTU)	Remarks
9:55			Start	Purge					
10:07		25.66	41 gal	-223.8	20.86	6.94	1.783	3.48	
1014		26.27		-201.6	21.04	7.02	1.809	4.11	
1020		26.61		-201.1	21.2	7.02	1.814	4.20	
1023		26.7		-153.3	20.57	7.14	1.786	3.07	
1024		26.83		-146.2	21.31	7.12	1.814	3.19	
1039		26.96		-143.	22.52	7.06	1.874	2.37	
1043		27.30		-142.6	23.58	7.07	1.921	2.59	
1046		27.48		-141.3	22.85	7.09	1.897	3.16	
1050		27.60		-126.9	21.93	7.10	1.959	2.74	
1056		27.95		-128.5	22.23	7.12	1.857	3.55	
1106		Sample							

TRC