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RECEIVED

1:47 pm, Feb 08, 2008

Alameda County
Environmental Health

February 6, 2008

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

RE: Work Plan for Soil and Groundwater Sampling and Remediation
Hanson Radum Plant
Pleasanton, California

Dear Mr. Wickham:

INTRODUCTION

ENV America Incorporated (ENV America) is pleased to submit this work plan to Alameda County Environmental Health Services to conduct soil and groundwater sampling and soil remediation at the above referenced Property (the Property or the Site) (Figure 1). This work is being conducted to further investigate Total Petroleum Hydrocarbons detected as diesel (TPH-d) and motor oil (TPH-mo) in groundwater in the vicinity of boring B-1A, and to specify soil removal and confirmation sampling of contaminated soil in the vicinity of boring EB35 (Figure 2). This work plan is being submitted in compliance with your letter dated November 28, 2007 to Mr. Lee Cover of Hanson Permanente Cement, Inc. (Hanson). That letter also requests re-sampling of monitoring well 3S/1E 10D8. However, this monitoring well was re-sampled by ENV America on August 2, 2007 to confirm the results obtained by Hanson's Consultant LFR, Inc. (LFR), who performed the initial sampling. The results of the resampling are attached to this work plan and discussed below.

This work plan only addresses those items mentioned above. Additional items requested in your November 28, 2008 letter are being addressed by Hanson under separate cover.

BACKGROUND

In July 2007 LFR, on behalf of Hanson, conducted soil and groundwater investigations in areas previously identified as areas of concern (AOCs) at the Hanson Radum facility. To facilitate investigation of the site, LFR divided the site into nine AOCs. A report describing the results of those investigations was submitted to AECH on October 26, 2007. In that document LFR reported detecting total petroleum hydrocarbon quantified as diesel (TPH-d) and motor oil (mo) in a grab groundwater sample from boring B-1A, located in AOC 3 between Hanson's office, the heavy maintenance shop, and the lube shed. In their November 28, 2007 letter AECH requested that

groundwater in the vicinity of this boring be further evaluated to assess whether the results from boring B-1A are representative of groundwater quality in that area and whether a significant subsurface source of petroleum hydrocarbons exists.

Also in AOC 3, TPH quantified as d and mo was detected in some shallow soil samples collected in the vicinity of boring EB35. AECH requested that plans be presented to perform additional investigation of the extent of petroleum hydrocarbons in the shallow soil in that area or present plans for future soil removal and confirmation sampling.

LFR also collected groundwater samples from four groundwater monitoring wells on and in the immediate vicinity of the site. Dissolved mercury was detected in monitoring well 3S/1E 10D8. ACEH requested that the well be resampled and the sample be re-analyzed.

The scope of work presented below describes how each of AECH's requests will be addressed.

SCOPE OF WORK

Pre-Field Activities

Prior to conducting field activities the following tasks will be completed:

- Prepare a Site specific Health and Safety Plan (HASP) to describe any health and safety issues and objectives associated with the proposed scope of work, as well as site conditions.
- Obtain proper permits.
- Mark the location to be excavated and perform underground utility clearance by notifying Underground Service Alert (USA); and
- Contract with a private utility locator to clear the location for underground utilities prior to being excavated.

B-1A Area

One groundwater monitoring well will be installed in the immediate vicinity of boring B-1A to confirm LFR's groundwater grab sample result. The planned depth of the well is 75 feet with a 10 foot well screen, based on LFR's estimated depth to groundwater of 67.5 feet. The actual depth will be assessed in the field based on conditions encountered during drilling. The well will be constructed in an eight-inch boring using two-inch diameter PVC well screen and riser casing. The annular space between the well screen and the borehole wall will be backfilled with appropriately sized filter pack sand to approximately two feet above the well screen. Two feet of bentonite chips will be placed on top of the filter pack sand and hydrated with potable water. The remaining annular space to within one foot of the surface will be filled with a neat cement grout. A flush mounted well box will be concreted in place to form the surface completion.

After a sufficient amount of time to allow the grout to set (24 to 48 hours) the well will be developed to remove fines from the well. After allowing the well to recover for a minimum of 24 hours, a groundwater sample will be collected from the well. Prior to collecting the sample, the well will be purged until the field parameters temperature, pH, and conductivity have stabilized. The groundwater sample collected will be placed in an iced cooler and submitted to a California Certified Laboratory under chain of custody. The sample will be analyzed for TPH-d and mo by EPA Method 8015M.

If analytical results exceeding the San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (ESLs) are detected in the groundwater sample, two additional groundwater monitoring wells will be installed to assess the groundwater flow direction and gradient to help evaluate potential source locations. These additional wells will be located approximately 80 feet west and 80 feet south of the original well location and will be constructed, developed, sampled, and analyzed in the same manner as the original well. Based on groundwater flow direction and analytical results, potential sources can be located and further investigated.

EB35 Area

The shallow soil in the area around EB35 will be excavated using a backhoe or similar excavation device. The excavated soil will be characterized and sent to an appropriate landfill for disposal. Soil confirmation samples will be collected from the bottom and sidewalls of the excavation. Conformation samples will be collected every 20 feet along the sidewalls of the excavation and on a 20-foot grid spacing in the bottom of the excavation. The soil confirmation samples collected will be placed in an iced cooler and submitted to a California Certified Laboratory under chain of custody. The samples will be analyzed for TPH-d and mo by EPA Method 8015M.

Groundwater Monitoring Well 3/S1E 10D8

As noted above, this well was resampled on August 2, 2007. Samples were submitted on the same day to Test America Laboratory (formerly STL) in Pleasanton, CA for analysis. Test America is a California DTSC certified laboratory. Samples were analyzed for semivolatile organic compounds using method EPA/SW846 8270C and for mercury using method SW846 7470A. All results are below the method detection limit (ND). The laboratory results are attached.

REPORTING

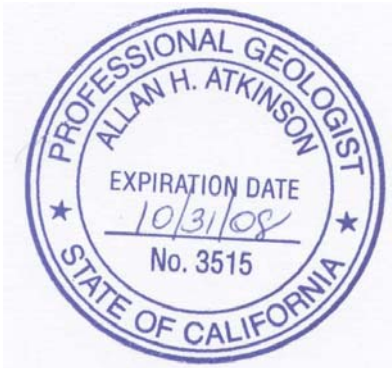
Following the completion of field work at the Site a report will be prepared by ENV America on behalf of Legacy. The report will include a description of field methods, results of laboratory analysis, and conclusions and recommendations. The report will be reviewed and signed by a California professional geologist.

SCHEDULE

ENV America is prepared to commence the above-described soil and groundwater investigation once approval of this work plan has been obtained from ACEH. ENV America will provide a draft of the report within four to six weeks of the completion of field activities. The final report will be provided within one week of receipt of comments, if any, on the draft report. ENV America will provide oral reports as necessary following commencement of work on this project.

Sincerely,
ENV America Incorporated

Voytek Bajsarowicz
Principal



Allan H. Atkinson, PG
Principal Geologist

Attachment: Monitoring Well 3S/1E 10D8 resampling laboratory results

ANALYTICAL REPORT

Job Number: 720-10152-1

Job Description: Legacy Hansen

For:
ENV America, Incorporated
244 California St., Ste 500
San Francisco, CA 94111

Attention: Mr. Alan Atkinson

Dimple Sharma
Project Manager I
dsharma@stl-inc.com
08/03/2007
Revision: 1

cc: Mr. David O Connor
Mr. Charlie Rome

Job Narrative
720-J10152-1

Comments
No additional comments.

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

GC/MS Semi VOA
Method 8270C: The Relative Percent difference(RPD) for batch #24332 exceeded control limits for the following analyte(s): Benzoic acid has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ENV America, Incorporated Job Number: 720-10152-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10152-3	**EB-1**				
Benzyl alcohol		6.3	5.1	ug/L	8270C

METHOD SUMMARY

Client: ENV America, Incorporated Job Number: 720-10152-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	STL SF	SW846 8270C	
Separatory Funnel Liquid-Liquid Extraction	STL SF		SW846 3510C
Mercury in Liquid Waste (Manual Cold Vapor Technique)	STL SF	SW846 7470A	
Mercury in Liquid Waste (Manual Cold Vapor	STL SF		SW846 7470A
Sample Filtration	STL SF		FILTRATION

LAB REFERENCES:

STL 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: ENV America, Incorporated Job Number: 720-10152-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10152-1	3511E 10D8	Water	08/02/2007 1210	08/02/2007 1230
720-10152-2	LAKE-I	Water	08/02/2007 1120	08/02/2007 1230
720-10152-3	EB-1	Water	08/02/2007 1050	08/02/2007 1230

Client: ENV America, Incorporated

Job Number: 720-10152-1

Client Sample ID: 3511E 10D8

Lab Sample ID: 720-10152-1
Client Matrix: Water

Date Sampled: 08/02/2007 1210
Date Received: 08/02/2007 1230

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

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 08/02/2007 2312
Date Prepared: 08/02/2007 1317

Analysis Batch: 720-24373
Prep Batch: 720-24332

Instrument ID: Sat 2K1
Lab File ID: d:\data\200708\080207\720-
Initial Weight/Volume: 970 mL
Final Weight/Volume: 1 mL
Injection Volume:

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: ENV America, Incorporated

Job Number: 720-10152-1

Client Sample ID: 3511E 10D8

Lab Sample ID: 720-10152-1
Client Matrix: Water

Date Sampled: 08/02/2007 1210
Date Received: 08/02/2007 1230

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

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 08/02/2007 2312
Date Prepared: 08/02/2007 1317

Analysis Batch: 720-24373
Prep Batch: 720-24332

Instrument ID: Sat 2K1
Lab File ID: d:\data\200708\080207\720-
Initial Weight/Volume: 970 mL
Final Weight/Volume: 1 mL
Injection Volume:

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	82	6 - 103
Terphenyl-d14	55	36 - 106
2-Fluorophenol	46	1 - 66
Phenol-d5	32	1 - 47
2,4,6-Tribromophenol	86	22 - 124

Client: ENV America, Incorporated

Job Number: 720-10152-1

Client Sample ID: **LAKE-I**

Lab Sample ID: 720-10152-2
Client Matrix: Water

Date Sampled: 08/02/2007 1120
Date Received: 08/02/2007 1230

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

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 08/02/2007 2346
Date Prepared: 08/02/2007 1317

Analysis Batch: 720-24373
Prep Batch: 720-24332

Instrument ID: Sat 2K1
Lab File ID: d:\data\200708\080207\720-
Initial Weight/Volume: 980 mL
Final Weight/Volume: 1 mL
Injection Volume:

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: ENV America, Incorporated

Job Number: 720-10152-1

Client Sample ID: **LAKE-I**

Lab Sample ID: 720-10152-2
Client Matrix: Water

Date Sampled: 08/02/2007 1120
Date Received: 08/02/2007 1230

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

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 08/02/2007 2346
Date Prepared: 08/02/2007 1317

Analysis Batch: 720-24373
Prep Batch: 720-24332

Instrument ID: Sat 2K1
Lab File ID: d:\data\200708\080207\720-
Initial Weight/Volume: 980 mL
Final Weight/Volume: 1 mL
Injection Volume:

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	71	6 - 98
2-Fluorobiphenyl	77	6 - 103
Terphenyl-d14	55	36 - 106
2-Fluorophenol	44	1 - 66
Phenol-d5	30	1 - 47
2,4,6-Tribromophenol	79	22 - 124

Client: ENV America, Incorporated

Job Number: 720-10152-1

Client Sample ID: EB-1

Lab Sample ID: 720-10152-3
Client Matrix: Water

Date Sampled: 08/02/2007 1050
Date Received: 08/02/2007 1230

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

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 08/03/2007 0021
Date Prepared: 08/02/2007 1317

Analysis Batch: 720-24373
Prep Batch: 720-24332

Instrument ID: Sat 2K1
Lab File ID: d:\data\200708\080207\720-
Initial Weight/Volume: 980 mL
Final Weight/Volume: 1 mL
Injection Volume:

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	6.3		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: ENV America, Incorporated

Job Number: 720-10152-1

Client Sample ID: EB-1

Lab Sample ID: 720-10152-3
Client Matrix: Water

Date Sampled: 08/02/2007 1050
Date Received: 08/02/2007 1230

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

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 08/03/2007 0021
Date Prepared: 08/02/2007 1317

Analysis Batch: 720-24373
Prep Batch: 720-24332

Instrument ID: Sat 2K1
Lab File ID: d:\data\200708\080207\720-
Initial Weight/Volume: 980 mL
Final Weight/Volume: 1 mL
Injection Volume:

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	65	6 - 98
2-Fluorobiphenyl	66	6 - 103
Terphenyl-d14	52	36 - 106
2-Fluorophenol	44	1 - 66
Phenol-d5	31	1 - 47
2,4,6-Tribromophenol	73	22 - 124

Client: ENV America, Incorporated

Job Number: 720-10152-1

Client Sample ID: 3511E 10D8

Lab Sample ID:	720-10152-1	Date Sampled:	08/02/2007 1210
Client Matrix:	Water	Date Received:	08/02/2007 1230

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)-Dissolved

Method:	7470A	Analysis Batch: 720-24354		Instrument ID:	FIMS 100
Preparation:	7470A	Prep Batch: 720-24350		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	25 mL
Date Analyzed:	08/02/2007 1811			Final Weight/Volume:	50 mL
Date Prepared:	08/02/2007 1459				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Client: ENV America, Incorporated

Job Number: 720-10152-1

Client Sample ID: LAKE-I

Lab Sample ID: 720-10152-2
Client Matrix: Water

Date Sampled: 08/02/2007 1120
Date Received: 08/02/2007 1230

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 08/02/2007 1812
Date Prepared: 08/02/2007 1459

Analysis Batch: 720-24354
Prep Batch: 720-24350

Instrument ID: FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Client: ENV America, Incorporated

Job Number: 720-10152-1

Client Sample ID: EB-1

Lab Sample ID: 720-10152-3
Client Matrix: Water

Date Sampled: 08/02/2007 1050
Date Received: 08/02/2007 1230

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 08/02/2007 1813
Date Prepared: 08/02/2007 1459

Analysis Batch: 720-24354
Prep Batch: 720-24350

Instrument ID: FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

DATA REPORTING QUALIFIERS

Client: ENV America, Incorporated Job Number: 720-10152-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	*	RPD of the LCS and LCSD exceeds the control limits

Client: ENV America, Incorporated Job Number: 720-10152-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 720-24332					
LCS 720-24332/2-A	Lab Control Spike	T	Water	3510C	
LCSD 720-24332/3-A	Lab Control Spike Duplicate	T	Water	3510C	
MB 720-24332/1-A	Method Blank	T	Water	3510C	
720-10152-1	3511E 10D8	T	Water	3510C	
720-10152-2	LAKE-I	T	Water	3510C	
720-10152-3	EB-1	T	Water	3510C	
Analysis Batch:720-24373					
LCS 720-24332/2-A	Lab Control Spike	T	Water	8270C	720-24332
LCSD 720-24332/3-A	Lab Control Spike Duplicate	T	Water	8270C	720-24332
MB 720-24332/1-A	Method Blank	T	Water	8270C	720-24332
720-10152-1	3511E 10D8	T	Water	8270C	720-24332
720-10152-2	LAKE-I	T	Water	8270C	720-24332
720-10152-3	EB-1	T	Water	8270C	720-24332

Report Basis
T = Total

Metals					
Prep Batch: 720-24350					
LCS 720-24350/2-A	Lab Control Spike	T	Water	7470A	
LCSD 720-24350/3-A	Lab Control Spike Duplicate	T	Water	7470A	
MB 720-24349/1-B	Method Blank	D	Water	7470A	
720-10110-A-6-B MS	Matrix Spike	T	Water	7470A	
720-10110-A-6-C MSD	Matrix Spike Duplicate	T	Water	7470A	
720-10152-1	3511E 10D8	D	Water	7470A	
720-10152-2	LAKE-I	D	Water	7470A	
720-10152-3	EB-1	D	Water	7470A	
Analysis Batch:720-24354					
LCS 720-24350/2-A	Lab Control Spike	T	Water	7470A	720-24350
LCSD 720-24350/3-A	Lab Control Spike Duplicate	T	Water	7470A	720-24350
MB 720-24349/1-B	Method Blank	D	Water	7470A	720-24350
720-10110-A-6-B MS	Matrix Spike	T	Water	7470A	720-24350
720-10110-A-6-C MSD	Matrix Spike Duplicate	T	Water	7470A	720-24350
720-10152-1	3511E 10D8	D	Water	7470A	720-24350
720-10152-2	LAKE-I	D	Water	7470A	720-24350
720-10152-3	EB-1	D	Water	7470A	720-24350

Report Basis
D = Dissolved
T = Total

Client: ENV America, Incorporated

Job Number: 720-10152-1

Method Blank - Batch: 720-24332

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 720-24332/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2007 2238
Date Prepared: 08/02/2007 1317

Analysis Batch: 720-24373
Prep Batch: 720-24332
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200708\080207\mb
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

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: ENV America, Incorporated

Job Number: 720-10152-1

Method Blank - Batch: 720-24332

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 720-24332/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2007 2238
Date Prepared: 08/02/2007 1317

Analysis Batch: 720-24373
Prep Batch: 720-24332
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200708\080207\mb
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

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	73	6 - 98
2-Fluorobiphenyl	74	6 - 103
Terphenyl-d14	53	36 - 106
2-Fluorophenol	47	1 - 66
Phenol-d5	33	1 - 47
2,4,6-Tribromophenol	76	22 - 124

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

Client: ENV America, Incorporated

Job Number: 720-10152-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-24332

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 720-24332/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2007 2130
Date Prepared: 08/02/2007 1317

Analysis Batch: 720-24373
Prep Batch: 720-24332
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200708\080207\lcs
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

LCSD Lab Sample ID: LCSD 720-24332/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2007 2204
Date Prepared: 08/02/2007 1317

Analysis Batch: 720-24373
Prep Batch: 720-24332
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200708\080207\lcsd
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Phenol	37	35	12 - 89	5	35		
Bis(2-chloroethyl)ether	73	77	43 - 126	5	35		
2-Chlorophenol	69	71	23 - 134	3	25		
1,3-Dichlorobenzene	58	59	17 - 153	2	35		
1,4-Dichlorobenzene	58	58	36 - 97	0	30		
Benzyl alcohol	74	76	10 - 130	3	35		
1,2-Dichlorobenzene	60	61	37 - 92	1	35		
2-Methylphenol	69	72	10 - 130	4	35		
4-Methylphenol	63	64	10 - 130	2	35		
N-Nitrosodi-n-propylamine	71	76	10 - 130	7	34		
Hexachloroethane	56	56	30 - 103	1	35		
Nitrobenzene	76	75	48 - 106	0	35		
Isophorone	73	77	47 - 180	5	35		
2-Nitrophenol	76	79	45 - 166	4	35		
2,4-Dimethylphenol	76	74	42 - 109	3	35		
Bis(2-chloroethoxy)methane	80	71	43 - 164	12	35		
2,4-Dichlorophenol	81	80	53 - 121	2	35		
1,2,4-Trichlorobenzene	70	69	44 - 142	2	35		
Naphthalene	69	67	36 - 119	2	35		
4-Chloroaniline	43	45	10 - 130	5	35		
Hexachlorobutadiene	58	60	38 - 102	4	35		
4-Chloro-3-methylphenol	78	80	22 - 147	2	31		
2-Methylnaphthalene	71	69	10 - 130	3	35		
Hexachlorocyclopentadiene	89	79	10 - 130	12	35		
2,4,6-Trichlorophenol	80	66	47 - 108	19	35		
2,4,5-Trichlorophenol	74	70	20 - 120	5	35		
2-Chloronaphthalene	77	70	10 - 130	10	35		
2-Nitroaniline	83	76	10 - 130	9	35		
Dimethyl phthalate	88	85	10 - 130	4	35		
Acenaphthylene	90	89	54 - 126	2	35		
3-Nitroaniline	92	75	10 - 130	21	35		
Acenaphthene	74	67	48 - 104	11	30		

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

Client: ENV America, Incorporated

Job Number: 720-10152-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-24332

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 720-24332/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2007 2130
Date Prepared: 08/02/2007 1317

Analysis Batch: 720-24373
Prep Batch: 720-24332
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200708\080207\lcs
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

LCSD Lab Sample ID: LCSD 720-24332/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2007 2204
Date Prepared: 08/02/2007 1317

Analysis Batch: 720-24373
Prep Batch: 720-24332
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200708\080207\lcsd
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2,4-Dinitrophenol	101	92	10 - 130	9	35		
4-Nitrophenol	58	51	1 - 132	13	35		
Dibenzofuran	72	67	10 - 130	7	35		
2,4-Dinitrotoluene	81	79	39 - 139	3	35		
2,6-Dinitrotoluene	82	78	10 - 130	6	35		
Diethyl phthalate	81	73	10 - 130	11	35		
4-Chlorophenyl phenyl ether	77	72	39 - 144	8	35		
Fluorene	79	73	55 - 111	9	35		
4-Nitroaniline	96	91	10 - 130	5	35		
2-Methyl-4,6-dinitrophenol	87	93	53 - 110	7	35		
N-Nitrosodiphenylamine	78	79	14 - 170	1	35		
4-Bromophenyl phenyl ether	74	78	10 - 130	6	35		
Hexachlorobenzene	72	84	8 - 140	15	35		
Pentachlorophenol	87	91	45 - 125	5	35		
Phenanthrene	76	78	44 - 125	3	35		
Anthracene	76	81	44 - 118	6	35		
Di-n-butyl phthalate	77	78	9 - 111	1	35		
Fluoranthene	70	87	43 - 121	21	35		
Pyrene	79	81	52 - 115	2	35		
Butyl benzyl phthalate	79	83	10 - 139	6	35		
3,3'-Dichlorobenzidine	69	78	9 - 212	13	35		
Benzo[a]anthracene	73	79	42 - 133	8	35		
Bis(2-ethylhexyl) phthalate	82	85	29 - 136	3	35		
Chrysene	75	82	42 - 139	9	35		
Di-n-octyl phthalate	68	77	10 - 130	13	35		
Benzo[b]fluoranthene	80	79	42 - 140	1	35		
Benzo[a]pyrene	89	86	32 - 148	3	35		
Benzo[k]fluoranthene	77	75	26 - 145	2	35		
Indeno[1,2,3-cd]pyrene	90	83	10 - 150	8	35		
Benzo[g,h,i]perylene	83	82	10 - 140	1	35		
Benzoic acid	31	19	10 - 130	49	35		*
Azobenzene	71	66	12 - 89	7	35		

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

Client: ENV America, Incorporated

Job Number: 720-10152-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-24332

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 720-24332/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2007 2130
Date Prepared: 08/02/2007 1317

Analysis Batch: 720-24373
Prep Batch: 720-24332
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200708\080207\lcs
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

LCSD Lab Sample ID: LCSD 720-24332/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2007 2204
Date Prepared: 08/02/2007 1317

Analysis Batch: 720-24373
Prep Batch: 720-24332
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200708\080207\lcsd
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dibenz(a,h)anthracene	91	84	10 - 130	9	35		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Nitrobenzene-d5	79	76	6 - 98
2-Fluorobiphenyl	73	72	6 - 103
Terphenyl-d14	79	84	36 - 106
2-Fluorophenol	46	47	1 - 66
Phenol-d5	34	34	1 - 47
2,4,6-Tribromophenol	81	83	22 - 124

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

Client: ENV America, Incorporated

Job Number: 720-10152-1

Method Blank - Batch: 720-24350

Method: 7470A
Preparation: 7470A
Dissolved

Lab Sample ID: MB 720-24349/1-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2007 1807
Date Prepared: 08/02/2007 1459

Analysis Batch: 720-24354
Prep Batch: 720-24350
Units: mg/L

Instrument ID: FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Mercury	ND		0.00020

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-24350

Method: 7470A
Preparation: 7470A

LCS Lab Sample ID: LCS 720-24350/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2007 1808
Date Prepared: 08/02/2007 1459

Analysis Batch: 720-24354
Prep Batch: 720-24350
Units: mg/L

Instrument ID: FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-24350/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2007 1809
Date Prepared: 08/02/2007 1459

Analysis Batch: 720-24354
Prep Batch: 720-24350
Units: mg/L

Instrument ID: FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	100	103	85 - 115	4	20		

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

Client: ENV America, Incorporated

Job Number: 720-10152-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-24350

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	720-10110-A-6-B MS	Analysis Batch: 720-24354	Instrument ID: FIMS 100
Client Matrix:	Water	Prep Batch: 720-24350	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 25 mL
Date Analyzed:	08/02/2007 1815		Final Weight/Volume: 50 mL
Date Prepared:	08/02/2007 1459		

MSD Lab Sample ID:	720-10110-A-6-C MSD	Analysis Batch: 720-24354	Instrument ID: FIMS 100
Client Matrix:	Water	Prep Batch: 720-24350	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 25 mL
Date Analyzed:	08/02/2007 1817		Final Weight/Volume: 50 mL
Date Prepared:	08/02/2007 1459		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	97	100	85 - 115	3	20		

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

ENV AMERICA

~~250 Goddard~~
~~Irvine, California 92618~~
~~TEL (949) 453-0191~~ 415-957-9153
~~FAX (949) 453-9292~~ 415-989-9934

244 California St Suite 500
San Francisco, CA 94111

1016526 Sheet 1 of 1

CHAIN OF CUSTODY RECORD

720-10152

Project Information:	
Site Name	Hanson
Site Address	Pleasanton, CA
Project No.	LPC 0624
Project Manager	A. Atkinson
Sampled By	CFR / BB
Date	8/2/07

Sample Identification	Sample Date	Sample Time	Matrix	No. of Containers	Lab I.D. Number
35/1E 1008	8/2/07	1210	W	2	
Lake-1	↓	1120	W	2	
EB-1	↓	1050	W	2	

Analysis

TPH (g) (Mod 8015)	TPH (d) (MOD 8015)	BTEX/MTBE (8021B)	BTEX (8260B)	MTBE (8260B) Confirmation	VOCs (8260B)	PAHs (8310)	17 CAM (Title 22) Metals	General Minerals	Mercury 7471 (250 calymples)	SVOCs 8270 (Liquid only)	24 hour Rush	Lab filter Mercury
									X	X	X	X
									X	X	X	X
									X	X	X	X

CFR
8/2/07

RUSH

Relinquished by		Company	Received by		Company
Printed Name: Charles Rome	Date: 8/2/07	ENV America Inc	Printed Name: J. Bullock	Date: 8/2/07	
Signature: Charles Rome	Time: 1230		Signature: J. Bullock	Time: 1230	
Printed Name:	Date:		Printed Name:	Date:	
Signature:	Time:		Signature:	Time:	
Printed Name:	Date:		Printed Name:	Date:	
Signature:	Time:		Signature:	Time:	

Sample Receipt		Billing Information	Special Instructions
Total Containers: 6	TAT: 24 hour Rush	Bill To: ENV America	Rush, Lab Filter for Mercury
Temperature: °C / °F	Lab No.	Company:	Temp 24°C <4HTS
COC Seal (Y/N/NA)	Intact (Y/N)	Address: 244 California St Suite 500 San Francisco, CA 94111	

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ENV America, Incorporated

Job Number: 720-10152-1

Login Number: 10152

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
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	