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By dehloptoxic at 8:42 am, Jan 31, 2007

STRATUS
ENVIRONMENTAL, INC.

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

January 23, 2007
Project No. 2007-0057-01

Ms. Mirtha Ninayahuar
East Bay Municipal Utility District
Environmental Services Division, MS 702
P. O. Box 24055
Oakland, CA 94623-1055

Re: Self-Monitoring Report for June 2006 to December 2006
Permit Number: 50546352
Former USA Station No. 57
10700 MacArthur Boulevard
Oakland, California

Dear Ms. Ninayahuar:

Stratus Environmental Inc. (Stratus) has prepared this report, on behalf of USA Gasoline Corporation (USA), to present the results of dual phase extraction (DPE) events conducted during the second half of 2006 at former USA Station No. 57, located at 10700 MacArthur Boulevard, Oakland, California. This report has been prepared in accordance with the requirements identified in the East Bay Municipal Utility District (EBMUD) *Wastewater Discharge Permit* (dated May 31, 2005).

One DPE petroleum hydrocarbon mass removal event was completed at the site during the reporting period of June 2006 through December 2006. The DPE event was conducted between July 17 and August 10, 2006. During the DPE event, petroleum hydrocarbon laden soil vapors and groundwater were concurrently extracted from multiple wells (EX-1, EX-2, EX-3, and EX-4) using a 15-horsepower (hp) liquid ring pump of a CBA Equipment, LLC (CBA) DPE system. Soil vapors and groundwater were separated in the 100-gallon knockout tank, in-built on the trailer-mounted DPE system. Groundwater from the knockout tank was then treated using two 500 pound (lb) granular activated carbon (GAC) vessels, in series, containing virgin coconut shell carbon; the treated groundwater was discharged to the sanitary sewer clean out. The soil vapors were abated in the thermal oxidizer of the DPE system prior to the discharge to the atmosphere.

FLOW SUMMARY

The DPE event was conducted between July 17, 2006, and August 10, 2006, for approximately 24.05 days. During this event, approximately 1,990 gallons of groundwater were extracted, treated, and discharged to the sanitary sewer (Table 1). The treated groundwater was discharged to the sanitary sewer at flow rates in the range of 0.04 to 1.31 gallons per minute (gpm).

ANALYTICAL RESULTS

Two influent, one mid-fluent (between carbon vessels), and one effluent water samples were collected between July 17 and August 10, 2006, and forwarded to Alpha Analytical, Inc. (ELAP #2019) for chemical analysis. These water samples were analyzed for gasoline range organics (GRO) using United States Environmental Protection Agency (USEPA) Method SW8015B, and for benzene, toluene, ethyl benzene, and total xylenes (BTEX), tertiary butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), and tertiary amyl ether (TAME) using USEPA Method 8260B. Certified analytical reports with chain-of-custody documentation are included in Appendix A.

Petroleum hydrocarbons and fuel oxygenates were not reported in any of the mid-fluent or effluent water samples collected during this DPE event. The GRO, benzene, and MTBE concentrations in the influent water samples were reported in the range of 150 to 900 micrograms per liter (µg/L), less than 0.50 to 170 µg/L, and 0.79 to 34 µg/L, respectively (Table 2).

DISCUSSION

One DPE event was conducted at the site during the reporting period of June through December 2006, to reduce the petroleum hydrocarbon mass. A total of approximately 1,990 gallons of treated groundwater were discharged to the sanitary sewer during this reporting period. Petroleum hydrocarbons or fuel oxygenates were not reported in any of the mid-fluent or effluent water samples collected during the DPE event.

Certification

"I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment or both."

January 23, 2007

If you have any questions or comments, please call Gowri Kowtha at (530) 676-6001.

Sincerely,

STRATUS ENVIRONMENTAL INC.,

Sonia Nandi

Sonia Nandi
Staff Engineer

Gowri S. Kowtha, P.E.
Project Manager

REGISTERED PROFESSIONAL ENGINEER
GOWRI SHANKAR KOWTHA
No. C 63413
Exp. 9/30/08
CIVIL
STATE OF CALIFORNIA

Attachments:

Table 1	DPE Event Field Observation Summary, July/August 2006
Table 2	Groundwater Analytical Results, July/August 2006
Appendix A	Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Charles Miller, USA Gasoline Corporation
Mr. Barney Chan, Alameda County Health Care Services
Mr. Ken Phares, Jay-Phares Corporation
Mr. Peter McIntyre, AEI Consultants

TABLE 1
DPE EVENT FIELD OBSERVATION SUMMARY
July/August 2006
Former USA Station No. 57
10700 MacArthur Boulevard
Oakland, California

Date	Hour Meter Reading	TE days	Appl Vac "Hg	Air Flow[1] cfm	Totalizer Reading gallons	GW Ext Rate gpm	Inf PID ppmv	Oper Temp deg F	Depth to Water, feet bgs and Induced Vacuum, "WC													
									S-1		S-2		MW-3		MW-6			MW-7			MW-8	
									DTW	DD	DTW	DD	DTW	DD	Vac	DTW	DD	Vac	DTW	DD	Vac	DTW	DD
7/17/06 7:00	**Begin sixth DPE event using wells EX-1, EX-2, EX-3, and EX-4. Hour Meter Reading = 4,410.7. Totalizer reading = 121,580 gallons**																					
7/17/06 7:00	4,410.70	0.00	18.00	113.1	121,580	--	106	1,479	11.00	--	12.98	--	10.08	--	0.00	12.75	--	0.00	9.94	--	0.00	13.08	--
7/17/06 8:30	4,412.10	0.06	18.00	113.4	121,690	1.31	105	1,470	NM	--	NM	--	NM	--	NM	NM	--	NM	NM	--	NM	NM	--
7/21/06 5:00	4,505.10	3.93	18.00	111.5	122,200	0.09	100	1,450	NM	--	NM	--	NM	--	NM	NM	--	NM	NM	--	NM	NM	--
7/25/06 9:45	4,605.60	8.12	16.50	70.7	122,518	0.05	98	1,450	11.53	0.53	13.47	0.49	11.05	0.97	NM	13.13	0.38	NM	10.35	0.41	NM	13.51	0.43
7/27/06 6:00	4,651.40	10.03	17.00	59.9	122,633	0.04	77	1,457	NM	--	NM	--	NM	--	NM	NM	--	NM	NM	--	NM	NM	--
8/3/06 5:00	4,818.10	16.98	16.50	114.8	123,070	0.04	23	1,450	11.95	0.95	13.90	0.92	11.66	1.58	0.00	13.56	0.81	0.00	10.83	0.89	0.00	14.10	1.02
8/10/06 6:45	4,988.00	24.05	17.50	88.9	123,570	0.05	20	1,460	12.25	1.25	14.22	1.24	11.93	1.85	0.00	13.85	1.10	0.00	11.15	1.21	0.00	14.35	1.27
8/10/06 7:00	Discontinue sixth DPE event.																						
Average	--	--	**17.36**	**96.05**	--	**0.06**	**75.6**	**1,459**															
Distance to Nearest Extraction Well, feet									**20**		**27**		**15**		**75**			**33**			**62**		
Screening Interval : EX-1=EX-2=EX-3=EX-4= 5 to 25 feet bgs									**20 - 40**		**20 - 40**		**24 - 44**		**10 - 40.5**			**10 - 40**			**10 - 35**		

Notes:

TE - Time Elapsed calculated as difference of hour meter readings, days
Appl - Applied
Oper - Operating
Vac - Vacuum
DTW - depth to groundwater
" WC - Inches water column
Ext. - Extraction
GW Ext - Groundwater Extraction
GW Ext Rate = Difference of Totalizer Readings, gallons

cfm - cubic feet per minute
Inf - Influent
DD - Drawdown
bgs - below ground surface
gpm - gallons per minute
"Hg - Inches Mercury

Temp - Temperature
deg F - degree Farenheit
PID - Photo Ionization Detector
ppmv - parts per million by volume
NM - Not measured
-- = Not applicable

[1] Flow rate measured using a digital anemometer at 3" diameter steel pipe;
flow rate = velocity X area of pipe (e.g.: flow rate = 600 feet per minute X 0.05 sq.ft)

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
July/August 2006
Former USA Station No. 57
10700 MacArthur Boulevard
Oakland, California

Sample Date	Sample Time	Sample ID	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	DIPE	ETBE	TAME
07/17/06	8:10	USA57WINF	**900**	**170**	**56**	**13**	**130**	**34**	**130**	<5.0[1]	<5.0[1]	<5.0[1]
08/03/06	5:55	USA57WEFF	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
08/03/06	5:57	USA57WGAC1	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
08/03/06	5:59	USA57WINF	**150**	<0.50	<0.50	<0.50	**17.9**	**0.79**	**18**	<1.0	<1.0	<1.0

Notes:
All water sample values reported in micrograms per liter (µg/L)
GRO = Gasoline Range Organics (C4-C13)
BTEX = Benzene, toluene, ethylbenzene, and total xylenes
MTBE = Methyl tertiary butyl ether
TBA = Tertiary butyl alcohol
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether

Analytical Laboratory
Alpha Analytical , Inc. (ELAP #2019)

Analytical Methods
GRO analyzed by EPA Method SW8015B/DHS LUFT Manual
BTEX, MTBE, TBA, DIPE, ETBE, & TAME analyzed by
EPA Method SW8260B

[1] = Reporting limits were increased due to high concentrations of target analytes

APPENDIX A

CERTIFIED ANALYTICAL REPORTS AND

CHAIN-OF-CUSTODY DOCUMENTATION

Alpha Analytical, Inc.

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

FILE COPY

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 07/18/06

AUG 0 3 2006

Job#: USA 57

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B
Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration		Reporting Limit	Date Sampled	Date Analyzed
Client ID :	TPH-P (GRO)	900		500 µg/L	07/17/06	07/19/06
USA57 W INF	Tertiary Butyl Alcohol (TBA)	130		50 µg/L	07/17/06	07/19/06
Lab ID :	Methyl tert-butyl ether (MTBE)	34		2.5 µg/L	07/17/06	07/19/06
STR06071805-01A	Di-isopropyl Ether (DIPE)	ND	V	5.0 µg/L	07/17/06	07/19/06
	Ethyl Tertiary Butyl Ether (ETBE)	ND	V	5.0 µg/L	07/17/06	07/19/06
	Benzene	170		2.5 µg/L	07/17/06	07/19/06
	Tertiary Amyl Methyl Ether (TAME)	ND	V	5.0 µg/L	07/17/06	07/19/06
	Toluene	56		2.5 µg/L	07/17/06	07/19/06
	Ethylbenzene	13		2.5 µg/L	07/17/06	07/19/06
	m,p-Xylene	86		2.5 µg/L	07/17/06	07/19/06
	o-Xylene	44		2.5 µg/L	07/17/06	07/19/06

Gasoline Range Organics (GRO) C4-C13
Reported in micrograms per liter, per client request.
V = Reporting Limits were increased due to high concentrations of target analytes.
ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

7/25/06
Report Date

Alpha Analytical, Inc.

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

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

VOC Sample Preservation Report

Work Order: STR06071805 **Project:** USA 57

Alpha's Sample ID	Client's Sample ID	Matrix	pH
06071805-01A	USA57 W INF	Aqueous	5

7/25/06

Report Date

Alpha Analytical, Inc.

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

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

Date: 26-Jul-06

QC Summary Report

Work Order: 06071805

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B**

File ID: **C:\HPCHEM\MS10\DATA\060719\06071905.D** Batch ID: **MS10W0719B** Analysis Date: **07/19/2006 09:17**

Sample ID: **MBLK MS10W0719B** Units : **µg/L** Run ID: **MSD_10_060719A** Prep Date: **07/19/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10.8		10		108	76	127			
Surr: Toluene-d8	9.9		10		99	84	113			
Surr: 4-Bromofluorobenzene	10.3		10		103	79	119			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B**

File ID: **C:\HPCHEM\MS10\DATA\060719\06071903.D** Batch ID: **MS10W0719B** Analysis Date: **07/19/2006 08:34**

Sample ID: **GLCS MS10W0719B** Units : **µg/L** Run ID: **MSD_10_060719A** Prep Date: **07/19/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	383	50	400		96	78	127			
Surr: 1,2-Dichloroethane-d4	11		10		110	76	127			
Surr: Toluene-d8	9.72		10		97	84	113			
Surr: 4-Bromofluorobenzene	10.4		10		104	79	119			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B**

File ID: **C:\HPCHEM\MS10\DATA\060719\06071909.D** Batch ID: **MS10W0719B** Analysis Date: **07/19/2006 10:43**

Sample ID: **06071731-03AGS** Units : **µg/L** Run ID: **MSD_10_060719A** Prep Date: **07/19/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1680	250	2000	0	84	70	139			
Surr: 1,2-Dichloroethane-d4	54.7		50		109	76	127			
Surr: Toluene-d8	50.4		50		101	84	113			
Surr: 4-Bromofluorobenzene	53		50		106	79	119			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B**

File ID: **C:\HPCHEM\MS10\DATA\060719\06071910.D** Batch ID: **MS10W0719B** Analysis Date: **07/19/2006 11:05**

Sample ID: **06071731-03AGSD** Units : **µg/L** Run ID: **MSD_10_060719A** Prep Date: **07/19/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1630	250	2000	0	81	70	139	1681	3.2(12)	
Surr: 1,2-Dichloroethane-d4	53.9		50		108	76	127			
Surr: Toluene-d8	50		50		100	84	113			
Surr: 4-Bromofluorobenzene	53.2		50		106	79	119			

Comments:

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

Reported in micrograms per liter, per client request.

Alpha Analytical, Inc.

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

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

Date: 26-Jul-06

QC Summary Report

Work Order: 06071805

Method Blank

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

File ID: **C:\HPCHEM\MS10\DATA\060719\06071905.D** Batch ID: **MS10W0719A** Analysis Date: **07/19/2006 09:17**

Sample ID: **MBLK MS10W0719A** Units : **µg/L** Run ID: **MSD_10_060719A** Prep Date: **07/19/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	10								
Methyl tert-butyl ether (MTBE)	ND	0.5								
Di-isopropyl Ether (DIPE)	ND	1								
Ethyl Tertiary Butyl Ether (ETBE)	ND	1								
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND	1								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	10.8		10		108	76	127			
Surr: Toluene-d8	9.9		10		99	84	113			
Surr: 4-Bromofluorobenzene	10.3		10		103	79	119			

Laboratory Control Spike

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

File ID: **C:\HPCHEM\MS10\DATA\060719\06071904.D** Batch ID: **MS10W0719A** Analysis Date: **07/19/2006 08:55**

Sample ID: **LCS MS10W0719A** Units : **µg/L** Run ID: **MSD_10_060719A** Prep Date: **07/19/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	9.79	0.5	10		98	81	122			
Toluene	9.59	0.5	10		96	80	120			
Ethylbenzene	10.2	0.5	10		102	80	120			
m,p-Xylene	9.99	0.5	10		99.9	80	129			
o-Xylene	9.86	0.5	10		99	80	129			
Surr: 1,2-Dichloroethane-d4	11.3		10		113	76	127			
Surr: Toluene-d8	9.63		10		96	84	113			
Surr: 4-Bromofluorobenzene	10.5		10		105	79	119			

Sample Matrix Spike

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

File ID: **C:\HPCHEM\MS10\DATA\060719\06071907.D** Batch ID: **MS10W0719A** Analysis Date: **07/19/2006 10:00**

Sample ID: **06071731-03AMS** Units : **µg/L** Run ID: **MSD_10_060719A** Prep Date: **07/19/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	47.9	1.3	50	0	96	74	125			
Toluene	46.1	1.3	50	0	92	76	120			
Ethylbenzene	48.6	1.3	50	0	97	77	124			
m,p-Xylene	47.1	1.3	50	0	94	73	130			
o-Xylene	47.6	1.3	50	0	95	74	131			
Surr: 1,2-Dichloroethane-d4	60.7		50		121	76	127			
Surr: Toluene-d8	45.4		50		91	84	113			
Surr: 4-Bromofluorobenzene	49.9		50		99.8	79	119			

Sample Matrix Spike Duplicate

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

File ID: **C:\HPCHEM\MS10\DATA\060719\06071908.D** Batch ID: **MS10W0719A** Analysis Date: **07/19/2006 10:21**

Sample ID: **06071731-03AMSD** Units : **µg/L** Run ID: **MSD_10_060719A** Prep Date: **07/19/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	47.5	1.3	50	0	95	74	125	47.93	0.8(13)	
Toluene	46.4	1.3	50	0	93	76	120	46.05	0.7(13)	
Ethylbenzene	49.3	1.3	50	0	99	77	124	48.55	1.5(13)	
m,p-Xylene	47.4	1.3	50	0	95	73	130	47.11	0.6(14)	
o-Xylene	47.4	1.3	50	0	95	74	131	47.57	0.3(13)	
Surr: 1,2-Dichloroethane-d4	58		50		116	76	127			
Surr: Toluene-d8	47.7		50		95	84	113			
Surr: 4-Bromofluorobenzene	52.2		50		104	79	119			

Comments:

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

Alpha Analytical, Inc.

Phone : (775) 355-1044 FAX : (775) 355-0406

Sample Receipt Checklist

Date Report is due to Client : **7/26/2006** Date of Notice : **7/18/2006 1:14:11 P**

Please take note of any NO check marks. If we receive no response concerning these items within 24 hours of the date of this notice, all of the samples will be analyzed as requested.

Client Name: **Stratus Environmental**	Project ID : **USA 57**	
Project Manager: **Gowri Kowtha**	Client's EMail: **gkowtha@stratusinc.net**	
	Client's Phone: **(530) 676-6001**	Client's FAX: **(530) 676-6005**
Work Order Number: **STR06071805**	Date Received: **7/18/2006**	Received by: Elizabeth Sauvageau

Chain of Custody (COC) Information

Carrier name: FedEx

Chain of custody present ?	Yes ☑	No ☐	
Custody seals intact on shippping container/cooler ?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles ?	Yes ☐	No ☐	Not Present ☑
Chain of custody signed when relinquished and received ?	Yes ☑	No ☐	
Chain of custody agrees with sample labels ?	Yes ☑	No ☐	
Sample ID noted by Client on COC ?	Yes ☑	No ☐	
Date and time of collection noted by Client on COC ?	Yes ☑	No ☐	
Samplers's name noted on COC ?	Yes ☑	No ☐	
Internal Chain of Custody (COC) requested ?	Yes ☐	No ☑	
Sub Contract Lab Used :	None ☑	SEM ☐	Other (see comments) ☐

Sample Receipt Information

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance (0-6°C)?	Yes ☑	No ☐	Cooler Temperature 4 °C
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TOC Water - pH acceptable upon receipt (H2SO4 pH<2)?	Yes ☐	No ☐	N/A ☑

Analytical Requirement Information

Are non-Standard or Modified methods requested ?	Yes ☐	No ☑	
Are there client specific Project requirements ?	Yes ☐	No ☑	If YES : see the Chain of Custody (COC)

Comments :

Billing Information :

CHAIN-OF-CUSTODY RECORD

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

CA

WorkOrder : STR06071805

Report Due By : 5:00 PM On : 26-Jul-06

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

Report Attention : Gowri Kowtha
CC Report :

Gowri Kowtha
TEL : (530) 676-6001 x
FAX : (530) 676-6005
EMail gkowtha@stratusinc.net

Job : USA 57
PO :

Client's COC # : 8377

EDD Required : **Yes**

Sampled by : C. Hill

Cooler Temp	Samples Received	Date Printed
4 °C	18-Jul-06	18-Jul-06

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles ORG	SUB	TAT	PWS #	Requested Tests TPH/P_W	VOC_W						Sample Remarks
STR06071805-01A	USA57 W INF	AQ	07/17/06 08:10	5	0	6		GAS-C	BTEX/OXY_C						

Comments: Security seals intact. Frozen ice. Send copy of receipt checklist with final report. ;

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Sauvageau	Elizabeth Sauvageau	**Alpha Analytical, Inc.**	7-18-06 1320

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

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

Billing Information:
Name Stratus EWV
Address 3330 Cameron Pk DR
City, State, Zip Cameron Pk
Phone Number 5306766004 Fax 5306766005

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

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

8377

Client Name USA 57	P.O. #	Job #
Address	EMail Address	
City, State, Zip Oakland	Phone #	Fax #

Sampled by: CHILL
Report Attention: Bowni

Analyses Required: TPH/BTEX; 5 OXYS

Required QC Level? I II III IV
EDD / EDF? YES ___ NO ___
Global ID # ___

Time Sampled	Date Sampled	Matrix* See Key Below	Office Use Only Lab ID Number	Sample Description	TAT	Field Filtered	Total and type of containers ** See below	TPH/BTEX	5 OXYS						REMARKS
0510	7/17/06	AQ	STR06071805-01	USA57 W INF	STD		5-V	X	X						

ADDITIONAL INSTRUCTIONS:

	Signature	Print Name	Company	Date	Time
Relinquished by	[signature]	CHILL	Stratus	71706	1344
Received by	[signature]	Lisa Brylw	ALPHA	71706	1344
Relinquished by					
Received by	Elizabeth Sauvageau	Elizabeth Sauvageau	Alpha	7-18-06	1320
Relinquished by					
Received by					

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

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

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FILE COPY

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 08/04/06

Job#: USA 57

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B
Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	TPH-P (GRO)	150	50 µg/L	08/03/06	08/08/06
USA 57 W Inf	Tertiary Butyl Alcohol (TBA)	18	10 µg/L	08/03/06	08/08/06
Lab ID :	Methyl tert-butyl ether (MTBE)	0.79	0.50 µg/L	08/03/06	08/08/06
STR06080412-01A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	08/03/06	08/08/06
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	08/03/06	08/08/06
	Benzene	ND	0.50 µg/L	08/03/06	08/08/06
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	08/03/06	08/08/06
	Toluene	ND	0.50 µg/L	08/03/06	08/08/06
	Ethylbenzene	ND	0.50 µg/L	08/03/06	08/08/06
	m,p-Xylene	9.4	0.50 µg/L	08/03/06	08/08/06
	o-Xylene	8.5	0.50 µg/L	08/03/06	08/08/06
Client ID :	TPH-P (GRO)	ND	50 µg/L	08/03/06	08/08/06
USA 57 W GAC 1	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	08/03/06	08/08/06
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	08/03/06	08/08/06
STR06080412-02A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	08/03/06	08/08/06
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	08/03/06	08/08/06
	Benzene	ND	0.50 µg/L	08/03/06	08/08/06
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	08/03/06	08/08/06
	Toluene	ND	0.50 µg/L	08/03/06	08/08/06
	Ethylbenzene	ND	0.50 µg/L	08/03/06	08/08/06
	m,p-Xylene	ND	0.50 µg/L	08/03/06	08/08/06
	o-Xylene	ND	0.50 µg/L	08/03/06	08/08/06
Client ID :	TPH-P (GRO)	ND	50 µg/L	08/03/06	08/08/06
USA 57 W Eff	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	08/03/06	08/08/06
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	08/03/06	08/08/06
STR06080412-03A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	08/03/06	08/08/06
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	08/03/06	08/08/06
	Benzene	ND	0.50 µg/L	08/03/06	08/08/06
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	08/03/06	08/08/06
	Toluene	ND	0.50 µg/L	08/03/06	08/08/06
	Ethylbenzene	ND	0.50 µg/L	08/03/06	08/08/06
	m,p-Xylene	ND	0.50 µg/L	08/03/06	08/08/06
	o-Xylene	ND	0.50 µg/L	08/03/06	08/08/06

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Gasoline Range Organics (GRO) C4-C13
Reported in micrograms per liter, per client request.
ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

8/11/06
Report Date

Alpha Analytical, Inc.

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

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

VOC Sample Preservation Report

Work Order: STR06080412 **Project:** USA 57

Alpha's Sample ID	Client's Sample ID	Matrix	pH
06080412-01A	USA 57 W Inf	Aqueous	2
06080412-02A	USA 57 W GAC 1	Aqueous	2
06080412-03A	USA 57 W Eff	Aqueous	2

8/11/06

Report Date

Alpha Analytical, Inc.

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

Date: 11-Aug-06

QC Summary Report

Work Order: 06080412

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B**

File ID: **06080821.D** Batch ID: **MS08W0808B** Analysis Date: **08/08/2006 18:48**

Sample ID: **MBLK MS08W0808B** Units : **µg/L** Run ID: **MSD_08_060808A** Prep Date: **08/08/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10		10		100	76	127			
Surr: Toluene-d8	10.3		10		103	84	113			
Surr: 4-Bromofluorobenzene	10.8		10		108	79	119			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B**

File ID: **06080814.D** Batch ID: **MS08W0808B** Analysis Date: **08/08/2006 15:56**

Sample ID: **GLCS MS0W80808B** Units : **µg/L** Run ID: **MSD_08_060808A** Prep Date: **08/08/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	443	50	400		111	78	127			
Surr: 1,2-Dichloroethane-d4	10.5		10		105	76	127			
Surr: Toluene-d8	9.34		10		93	84	113			
Surr: 4-Bromofluorobenzene	10		10		100	79	119			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B**

File ID: **06080818.D** Batch ID: **MS08W0808B** Analysis Date: **08/08/2006 17:39**

Sample ID: **06080453-01AGS** Units : **µg/L** Run ID: **MSD_08_060808A** Prep Date: **08/08/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2130	250	2000	0	106	70	139			
Surr: 1,2-Dichloroethane-d4	49.4		50		99	76	127			
Surr: Toluene-d8	46.6		50		93	84	113			
Surr: 4-Bromofluorobenzene	52		50		104	79	119			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B**

File ID: **06080819.D** Batch ID: **MS08W0808B** Analysis Date: **08/08/2006 18:02**

Sample ID: **06080453-01AGSD** Units : **µg/L** Run ID: **MSD_08_060808A** Prep Date: **08/08/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2160	250	2000	0	108	70	139	2125	1.8(12)	
Surr: 1,2-Dichloroethane-d4	49.7		50		99	76	127			
Surr: Toluene-d8	46.6		50		93	84	113			
Surr: 4-Bromofluorobenzene	52.4		50		105	79	119			

Comments:

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

Reported in micrograms per liter, per client request.

Alpha Analytical, Inc.

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Date: 11-Aug-06

QC Summary Report

Work Order: 06080412

Method Blank

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

File ID: **06080821.D** Batch ID: **MS08W0808A** Analysis Date: **08/08/2006 18:48**

Sample ID: **MBLK MS08W0808A** Units : **µg/L** Run ID: **MSD_08_060808A** Prep Date: **08/08/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	10								
Methyl tert-butyl ether (MTBE)	ND	0.5								
Di-isopropyl Ether (DIPE)	ND	1								
Ethyl Tertiary Butyl Ether (ETBE)	ND	1								
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND	1								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	10		10		100	76	127			
Surr: Toluene-d8	10.3		10		103	84	113			
Surr: 4-Bromofluorobenzene	10.8		10		108	79	119			

Laboratory Control Spike

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

File ID: **06080815.D** Batch ID: **MS08W0808A** Analysis Date: **08/08/2006 16:20**

Sample ID: **LCS MS0W80808A** Units : **µg/L** Run ID: **MSD_08_060808A** Prep Date: **08/08/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	10.1	0.5	10		101	81	122			
Toluene	8.78	0.5	10		88	80	120			
Ethylbenzene	9.31	0.5	10		93	80	120			
m,p-Xylene	8.13	0.5	10		81	80	129			
o-Xylene	7.98	0.5	10		80	80	129			
Surr: 1,2-Dichloroethane-d4	10.8		10		108	76	127			
Surr: Toluene-d8	9.31		10		93	84	113			
Surr: 4-Bromofluorobenzene	9.83		10		98	79	119			

Sample Matrix Spike

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

File ID: **06080816.D** Batch ID: **MS08W0808A** Analysis Date: **08/08/2006 16:52**

Sample ID: **06080453-01AMS** Units : **µg/L** Run ID: **MSD_08_060808A** Prep Date: **08/08/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	51.5	1.3	50	0	103	74	125			
Toluene	47.8	1.3	50	0	96	76	120			
Ethylbenzene	50.4	1.3	50	0	101	77	124			
m,p-Xylene	44.1	1.3	50	0	88	73	130			
o-Xylene	43.6	1.3	50	0	87	74	131			
Surr: 1,2-Dichloroethane-d4	51.6		50		103	76	127			
Surr: Toluene-d8	47.4		50		95	84	113			
Surr: 4-Bromofluorobenzene	46.8		50		94	79	119			

Sample Matrix Spike Duplicate

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

File ID: **06080817.D** Batch ID: **MS08W0808A** Analysis Date: **08/08/2006 17:15**

Sample ID: **06080453-01AMSD** Units : **µg/L** Run ID: **MSD_08_060808A** Prep Date: **08/08/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	49.1	1.3	50	0	98	74	125	51.47	4.8(13)	
Toluene	46	1.3	50	0	92	76	120	47.75	3.8(13)	
Ethylbenzene	48.4	1.3	50	0	97	77	124	50.36	4.1(13)	
m,p-Xylene	42.3	1.3	50	0	85	73	130	44.09	4.1(14)	
o-Xylene	42.6	1.3	50	0	85	74	131	43.61	2.3(13)	
Surr: 1,2-Dichloroethane-d4	54		50		108	76	127			
Surr: Toluene-d8	48.9		50		98	84	113			
Surr: 4-Bromofluorobenzene	46.9		50		94	79	119			

Comments:

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

Alpha Analytical, Inc.

Phone : (775) 355-1044 FAX : (775) 355-0406

Sample Receipt Checklist

Date Report is due to Client : **8/14/2006** Date of Notice : **8/4/2006 2:03:19 PM**

Please take note of any NO check marks. If we receive no response concerning these items within 24 hours of the date of this notice, all of the samples will be analyzed as requested.

Client Name: **Stratus Environmental**	Project ID : **USA 57**	
Project Manager: **Gowri Kowtha**	Client's EMail: **gkowtha@stratusinc.net**	
	Client's Phone: **(530) 676-6001**	Client's FAX: **(530) 676-6005**
Work Order Number: **STR06080412**	Date Received: **8/4/2006**	Received by: Elizabeth Sauvageau

Chain of Custody (COC) Information

Carrier name: FedEx

Chain of custody present ?	Yes ☑	No ☐	
Custody seals intact on shippping container/cooler ?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles ?	Yes ☐	No ☐	Not Present ☑
Chain of custody signed when relinquished and received ?	Yes ☑	No ☐	
Chain of custody agrees with sample labels ?	Yes ☑	No ☐	
Sample ID noted by Client on COC ?	Yes ☑	No ☐	
Date and time of collection noted by Client on COC ?	Yes ☑	No ☐	
Samplers's name noted on COC ?	Yes ☑	No ☐	
Internal Chain of Custody (COC) requested ?	Yes ☐	No ☑	
Sub Contract Lab Used :	None ☑	SEM ☐	Other (see comments) ☐

Sample Receipt Information

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance (0-6°C)?	Yes ☑	No ☐	Cooler Temperature 4 °C
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TOC Water - pH acceptable upon receipt (H2SO4 pH<2)?	Yes ☐	No ☐	N/A ☑

Analytical Requirement Information

Are non-Standard or Modified methods requested ?	Yes ☐	No ☑	
Are there client specific Project requirements ?	Yes ☐	No ☑	If YES : see the Chain of Custody (COC)

Comments :

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : STR06080412

Report Due By : 5:00 PM On : 14-Aug-06

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

Report Attention : Gowri Kowtha
CC Report :

Gowri Kowtha
TEL : (530) 676-6001 x
FAX : (530) 676-6005
EMail gkowtha@stratusinc.net

Job : USA 57
PO :

Client's COC # : 8382

EDD Required : **Yes**

Sampled by : C. Hill

Cooler Temp	Samples Received	Date Printed
4 °C	04-Aug-06	04-Aug-06

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles ORG	SUB	TAT	PWS #	Requested Tests TPH/P_W	VOC_W						Sample Remarks
STR06080412-01A	USA 57 W Inf	AQ	08/03/06 05:59	5	0	6		GAS-C	BTEX/OXY_C						
STR06080412-02A	USA 57 W GAC 1	AQ	08/03/06 05:57	5	0	6		GAS-C	BTEX/OXY_C						
STR06080412-03A	USA 57 W Eff	AQ	08/03/06 05:55	5	0	6		GAS-C	BTEX/OXY_C						

Comments: Security seals intact. Frozen ice. Send copy of receipt checklist with final report. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Sauvageau	Elizabeth Sauvageau	Alpha Analytical, Inc.	8-4-06 1407

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

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

Billing Information:
Name Straka Env
Address 3330 Cameron Pk
City, State, Zip Cameron Pk
Phone Number 5306766004 Fax 5306766005

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

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

Page # 1 of 1

8382

Client Name USA 57
Address
City, State, Zip Oakland
P.O. #
Job #
EMail Address
Phone #
Fax #
Sampled by CHILL
Report Attention Cameron

Analyses Required

Required QC Level? I II III IV
EDD / EDF? YES ___ NO ___
Global ID # ___

Time Sampled	Date Sampled	Matrix* See Key Below	Office Use Only Lab ID Number	Sample Description	TAT	Field Filtered	Total and type of containers ** See below	TPHG-BTEX	5 Oxys						REMARKS
0554	8-3-06	AQ	STR06080412-01	USA 57 W INF	Std		5-V	X	X						
0557	)	)	-02	USA 57 W GAC 1	Std		5-V	X	X						
0555	)	)	-03	USA 57 W EFF	Std		5-V	X	X						

ADDITIONAL INSTRUCTIONS:

	Signature	Print Name	Company	Date	Time
Relinquished by	[signature]	CHILL	Straka	8306	1000
Received by	[signature]	Mike Giltshaw	Alpha	8306	1000
Relinquished by					
Received by	Elizabeth Sauvageau	Elizabeth Sauvageau	Alpha	8-4-06	1407
Relinquished by					
Received by					

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other

**: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

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