



Alpha

Alpha Analytical Laboratories Inc.

208 Mason St. Ukiah, California 95482

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CHEMICAL EXAMINATION REPORT

Page 1 of 13

Sonoma Co. Dept. Public Works Testing Lab
2688 Ventura Ave.
Santa Rosa, CA 95403
Attn: Bill Riley

Report Date: 06/04/07 12:37
Project No: C03410/3501-05
Project ID: Sunset Beach River Access

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
07E0596	05/18/2007 13:30	SCPWTL	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Site #1 26+60 (LT.)	07E0596-01	Soil	05/11/07 08:10	05/18/07 13:30
Site #2 28+10 (RT.)	07E0596-02	Soil	05/11/07 08:30	05/18/07 13:30
Site #3 29+65 (LT.)	07E0596-03	Soil	05/11/07 09:45	05/18/07 13:30
Site #4 30+35 (RT.)	07E0596-04	Soil	05/11/07 10:20	05/18/07 13:30
Site #5 34+40 (RT.)	07E0596-05	Soil	05/11/07 10:45	05/18/07 13:30
Site #6 36+00 (LT.)	07E0596-06	Soil	05/11/07 11:15	05/18/07 13:30

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Laboratory Director

6/4/2007



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2688 Ventura Ave.
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Attn: Bill Riley

Report Date: 06/04/07 12:37
Project No: C03410/3501-05
Project ID: Sunset Beach River Access

Order Number 07E0596 Receipt Date/Time 05/18/2007 13:30 Client Code SCPWTL Client PO/Reference

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Site #1 26+60 (LT.) (07E0596-01)		Sample Type: Soil			Sampled: 05/11/07 08:10		
Metals by EPA 6000/7000 Series Methods							
Lead	EPA 6010	AE72115	05/21/07	05/31/07	1	100 mg/kg	5.0
TPH by EPA/LUFT GC/GCMS Methods							
TPH as Gasoline	8015GRO	AE72210	05/18/07	05/22/07	1	ND mg/kg	1.0
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		107 %	60-156
by EPA/LUFT GC Methods with Modified EPA 3560 Silica Gel Cleanup							
TPH as Diesel	8015DRO	AE72422	05/24/07	05/25/07	1	6.4 mg/kg	1.0 D-09
TPH as Motor Oil	"	"	"	"	"	140 "	2.0
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		61.5 %	20-152
Volatile Organic Compounds by EPA Method 8260B							
Benzene	EPA 8260B	AE72509	05/23/07	05/23/07	1	ND mg/kg	0.0050
Toluene	"	"	"	"	"	ND "	0.0050
Ethylbenzene	"	"	"	"	"	ND "	0.0050
Xylenes (total)	"	"	"	"	"	ND "	0.0050
Surrogate: Bromofluorobenzene	"	"	"	"		90.8 %	69-134
Surrogate: Dibromofluoromethane	"	"	"	"		63.2 %	63-124
Surrogate: Toluene-d8	"	"	"	"		88.8 %	66-135

Site #2 28+10 (RT.) (07E0596-02)		Sample Type: Soil			Sampled: 05/11/07 08:30		
Metals by EPA 6000/7000 Series Methods							
Lead	EPA 6010	AE72115	05/21/07	05/31/07	1	120 mg/kg	5.0

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Order Number Receipt Date/Time Client Code Client PO/Reference
07E0596 05/18/2007 13:30 SCPWTL

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Site #2 28+10 (RT.) (07E0596-02)		Sample Type: Soil			Sampled: 05/11/07 08:30		
TPH by EPA/LUFT GC/GCMS Methods							
TPH as Gasoline	8015GRO	AE72210	05/18/07	05/22/07	1	ND mg/kg	1.0
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		112 %	60-156
TPH by EPA/LUFT GC Methods with Modified EPA 3560 Silica Gel Cleanup							
TPH as Diesel	8015DRO	AE72422	05/24/07	05/25/07	1	4.9 mg/kg	1.0 D-09
TPH as Motor Oil	"	"	"	"	"	110 "	2.0
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		57.0 %	20-152
Volatile Organic Compounds by EPA Method 8260B							
Benzene	EPA 8260B	AE72509	05/23/07	05/23/07	1	ND mg/kg	0.0050
Toluene	"	"	"	"	"	ND "	0.0050
Ethylbenzene	"	"	"	"	"	ND "	0.0050
Xylenes (total)	"	"	"	"	"	ND "	0.0050
Surrogate: Bromofluorobenzene	"	"	"	"		102 %	69-134
Surrogate: Dibromofluoromethane	"	"	"	"		67.6 %	63-124
Surrogate: Toluene-d8	"	"	"	"		90.0 %	66-135

Site #3 29+65 (LT.) (07E0596-03)		Sample Type: Soil			Sampled: 05/11/07 09:45		
Metals by EPA 6000/7000 Series Methods							
Lead	EPA 6010	AE72115	05/21/07	05/31/07	1	36 mg/kg	5.0
TPH by EPA/LUFT GC/GCMS Methods							
TPH as Gasoline	8015GRO	AE72210	05/18/07	05/22/07	1	ND mg/kg	1.0
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		106 %	60-156

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
07E0596	05/18/2007 13:30	SCPWTL	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Site #3 29+65 (LT.) (07E0596-03)		Sample Type: Soil		Sampled: 05/11/07 09:45			
TPH by EPA/LUFT GC Methods with Modified EPA 3560 Silica Gel Cleanup							
TPH as Diesel	8015DRO	AE72422	05/24/07	05/25/07	1	6.1 mg/kg	1.0 D-09
TPH as Motor Oil	"	"	"	"	"	120 "	2.0
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		61.1 %	20-152
Volatile Organic Compounds by EPA Method 8260B							
Benzene	EPA 8260B	AE72509	05/23/07	05/23/07	1	ND mg/kg	0.0050
Stuene	"	"	"	"	"	ND "	0.0050
Ethylbenzene	"	"	"	"	"	ND "	0.0050
Xylenes (total)	"	"	"	"	"	ND "	0.0050
Surrogate: Bromofluorobenzene	"	"	"	"		104 %	69-134
Surrogate: Dibromofluoromethane	"	"	"	"		69.2 %	63-124
Surrogate: Toluene-d8	"	"	"	"		89.6 %	66-135
Site #4 30+35 (RT.) (07E0596-04)		Sample Type: Soil		Sampled: 05/11/07 10:20			
Metals by EPA 6000/7000 Series Methods							
Lead	EPA 6010	AE72115	05/21/07	05/31/07	1	130 mg/kg	5.0
TPH by EPA/LUFT GC/GCMS Methods							
TPH as Gasoline	8015GRO	AE72210	05/18/07	05/22/07	1	ND mg/kg	1.0
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		106 %	60-156
TPH by EPA/LUFT GC Methods with Modified EPA 3560 Silica Gel Cleanup							
TPH as Diesel	8015DRO	AE72422	05/24/07	05/25/07	1	13 mg/kg	1.0
TPH as Motor Oil	"	"	"	"	"	170 "	2.0
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		65.0 %	20-152

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Order Number 07E0596 Receipt Date/Time 05/18/2007 13:30 Client Code SCPWTL Client PO/Reference

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Site #4 30+35 (RT.) (07E0596-04)		Sample Type: Soil		Sampled: 05/11/07 10:20			
Volatile Organic Compounds by EPA Method 8260B							
Benzene	EPA 8260B	AE72509	05/23/07	05/23/07	1	ND mg/kg	0.0050
Toluene	"	"	"	"	"	ND "	0.0050
Ethylbenzene	"	"	"	"	"	ND "	0.0050
Xylenes (total)	"	"	"	"	"	ND "	0.0050
Surrogate: Bromofluorobenzene	"	"	"	"		75.2 %	69-134
Surrogate: Dibromofluoromethane	"	"	"	"		58.4 %	63-124 S-GC
Surrogate: Toluene-d8	"	"	"	"		96.8 %	66-135
Site #5 34+40 (RT.) (07E0596-05)		Sample Type: Soil		Sampled: 05/11/07 10:45			
Metals by EPA 6000/7000 Series Methods							
Lead	EPA 6010	AE72115	05/21/07	05/31/07	1	270 mg/kg	5.0
TPH by EPA/LUFT GC/GCMS Methods							
TPH as Gasoline	8015GRO	AE72210	05/18/07	05/22/07	1	ND mg/kg	1.0
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		104 %	60-156
TPH by EPA/LUFT GC Methods with Modified EPA 3560 Silica Gel Cleanup							
TPH as Diesel	8015DRO	AE72422	05/24/07	05/25/07	1	12 mg/kg	1.0 D-09
TPH as Motor Oil	"	"	"	"	"	280 "	2.0
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		46.8 %	20-152
Volatile Organic Compounds by EPA Method 8260B							
Benzene	EPA 8260B	AE72509	05/23/07	05/23/07	1	ND mg/kg	0.0050
Toluene	"	"	"	"	"	ND "	0.0050
Ethylbenzene	"	"	"	"	"	ND "	0.0050
Xylenes (total)	"	"	"	"	"	ND "	0.0050
Surrogate: Bromofluorobenzene	"	"	"	"		106 %	69-134
Surrogate: Dibromofluoromethane	"	"	"	"		69.6 %	63-124
Surrogate: Toluene-d8	"	"	"	"		88.4 %	66-135

Site #6 36+00 (LT.) (07E0596-06)

Sample Type: Soil

Sampled: 05/11/07 11:15

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07E0596	05/18/2007 13:30	SCPWTL	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Site #6 36+00 (LT.) (07E0596-06)		Sample Type: Soil		Sampled: 05/11/07 11:15			
Metals by EPA 6000/7000 Series Methods							
Lead	EPA 6010	AE72115	05/21/07	05/31/07	1	49 mg/kg	5.0
TPH by EPA/LUFT GC/GCMS Methods							
TPH as Gasoline	8015GRO	AE72210	05/18/07	05/22/07	1	ND mg/kg	1.0
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		113 %	60-156
by EPA/LUFT GC Methods with Modified EPA 3560 Silica Gel Cleanup							
TPH as Diesel	8015DRO	AE72422	05/24/07	05/24/07	1	4.6 mg/kg	1.0 D-09
TPH as Motor Oil	"	"	"	"	"	110 "	2.0
Surrogate: 1,4-Bromofluorobenzene	"	"	"	"		71.7 %	20-152
Volatile Organic Compounds by EPA Method 8260B							
Benzene	EPA 8260B	AE72509	05/23/07	05/23/07	1	ND mg/kg	0.0050
Toluene	"	"	"	"	"	ND "	0.0050
Ethylbenzene	"	"	"	"	"	ND "	0.0050
Xylenes (total)	"	"	"	"	"	ND "	0.0050
Surrogate: Bromofluorobenzene	"	"	"	"		102 %	69-134
Surrogate: Dibromofluoromethane	"	"	"	"		62.0 %	63-124 S-GC
Surrogate: Toluene-d8	"	"	"	"		86.8 %	66-135

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07E0596	05/18/2007 13:30	SCPWTL	

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE72115 - EPA 3051 Microwave										
Blank (AE72115-BLK1)				Prepared: 05/21/07 Analyzed: 05/22/07						
Lead	ND	5.0	mg/kg							
(AE72115-BS1)				Prepared: 05/21/07 Analyzed: 05/22/07						
	23.2	5.0	mg/kg	20.0		116	80-120			
Duplicate (AE72115-DUP1)				Source: 07E0583-01 Prepared: 05/21/07 Analyzed: 05/22/07						
Lead	ND	5.0	mg/kg		ND				20	
Matrix Spike (AE72115-MS1)				Source: 07E0583-01 Prepared: 05/21/07 Analyzed: 05/22/07						
Lead	23.0	5.0	mg/kg	20.0	ND	115	70-130			
Matrix Spike (AE72115-MS2)				Source: 07E0660-01 Prepared: 05/21/07 Analyzed: 05/30/07						
Lead	90.5	5.0	mg/kg	20.0	72	92.5	70-130			
Matrix Spike Dup (AE72115-MSD1)				Source: 07E0583-01 Prepared: 05/21/07 Analyzed: 05/22/07						
Lead	23.5	5.0	mg/kg	20.0	ND	118	70-130	2.15	20	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
07E0596	05/18/2007 13:30	SCPWTL	

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE72210 - VOAs in Soil GC										
Blank (AE72210-BLK1) Prepared & Analyzed: 05/22/07										
TPH as Gasoline	ND	1.0	mg/kg							
Surrogate: 1,4-Bromofluorobenzene	4.18		"	4.00		104	60-156			
(AE72210-BS1) Prepared & Analyzed: 05/22/07										
TPH as Gasoline	17.1	1.0	mg/kg	21.4		79.9	70-130			
Surrogate: 1,4-Bromofluorobenzene	4.06		"	4.00		102	60-156			
Matrix Spike (AE72210-MS1) Source: 07E0594-01 Prepared & Analyzed: 05/22/07										
TPH as Gasoline	20.3	1.0	mg/kg	21.4	ND	91.8	65-161			
Surrogate: 1,4-Bromofluorobenzene	4.08		"	4.00		102	60-156			
Matrix Spike Dup (AE72210-MSD1) Source: 07E0594-01 Prepared & Analyzed: 05/22/07										
TPH as Gasoline	25.6	1.0	mg/kg	21.4	ND	117	65-161	23.1	25	
Surrogate: 1,4-Bromofluorobenzene	3.94		"	4.00		98.5	60-156			

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TPH by EPA/LUFT GC Methods with Modified EPA 3560 Silica Gel Cleanup - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE72422 - CA LUFT - orb shaker										
Blank (AE72422-BLK1) Prepared & Analyzed: 05/24/07										
TPH as Diesel	1.31	1.0	mg/kg							QB-03
TPH as Motor Oil	ND	2.0	"							
Surrogate: 1,4-Bromofluorobenzene	6.78		"	10.5		64.6	20-152			
Blank (AE72422-BLK2) Prepared & Analyzed: 05/24/07										
TPH as Diesel	1.26	1.0	mg/kg							QB-03
TPH as Motor Oil	ND	2.0	"							
Surrogate: 1,4-Bromofluorobenzene	6.57		"	10.5		62.6	20-152			
LCS (AE72422-BS1) Prepared & Analyzed: 05/24/07										
TPH as Diesel	36.0	1.0	mg/kg	40.2		89.6	63-126			
TPH as Motor Oil	35.3	2.0	"	40.2		87.8	57-139			
Surrogate: 1,4-Bromofluorobenzene	9.06		"	10.5		86.3	20-152			
LCS Dup (AE72422-BSD1) Prepared & Analyzed: 05/24/07										
TPH as Diesel	36.2	1.0	mg/kg	40.2		90.0	63-126	0.554	20	
TPH as Motor Oil	35.4	2.0	"	40.2		88.1	57-139	0.283	20	
Surrogate: 1,4-Bromofluorobenzene	8.53		"	10.5		81.2	20-152			
Matrix Spike (AE72422-MS1) Source: 07E0596-06 Prepared & Analyzed: 05/24/07										
TPH as Diesel	39.4	1.0	mg/kg	40.2	4.6	86.6	61-134			
TPH as Motor Oil	103	2.0	"	40.2	110	NR	61-126			QM-04
Surrogate: 1,4-Bromofluorobenzene	9.01		"	10.5		85.8	20-152			
Matrix Spike Dup (AE72422-MSD1) Source: 07E0596-06 Prepared & Analyzed: 05/24/07										
TPH as Diesel	39.8	1.0	mg/kg	40.2	4.6	87.6	61-134	1.01	20	
TPH as Motor Oil	88.3	2.0	"	40.2	110	NR	61-126	15.4	20	QM-04

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TPH by EPA/LUFT GC Methods with Modified EPA 3560 Silica Gel Cleanup - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE72422 - CA LUFT - orb shaker										
Matrix Spike Dup (AE72422-MSD1) Source: 07E0596-06 Prepared & Analyzed: 05/24/07										
Surrogate: 1,4-Bromofluorobenzene	9.32		"	10.5		88.8	20-152			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE72509 - VOAs in Soil GCMS										
Blank (AE72509-BLK1)				Prepared & Analyzed: 05/23/07						
Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Surrogate: Bromofluorobenzene	0.0209		"	0.0250		83.6	69-134			
Surrogate: Dibromofluoromethane	0.0179		"	0.0250		71.6	63-124			
Surrogate: Toluene-d8	0.0208		"	0.0250		83.2	66-135			
LCS (AE72509-BS1)				Prepared & Analyzed: 05/23/07						
Benzene	0.0108	0.0050	mg/kg	0.0100		108	77-120			
Toluene	0.0105	0.0050	"	0.0100		105	78-123			
Ethylbenzene	0.0108	0.0050	"	0.0100		108	86-120			
Xylenes (total)	0.0325	0.0050	"	0.0300		108	79-129			
Surrogate: Bromofluorobenzene	0.0258		"	0.0250		103	69-134			
Surrogate: Dibromofluoromethane	0.0169		"	0.0250		67.6	63-124			
Surrogate: Toluene-d8	0.0207		"	0.0250		82.8	66-135			
Matrix Spike (AE72509-MS1)				Source: 07E0594-01		Prepared & Analyzed: 05/23/07				
Benzene	0.00949	0.0050	mg/kg	0.0100	ND	94.9	29-145			
Toluene	0.00972	0.0050	"	0.0100	ND	97.2	33-148			
Ethylbenzene	0.00932	0.0050	"	0.0100	ND	93.2	23-150			
Xylenes (total)	0.0276	0.0050	"	0.0300	ND	92.0	14-158			
Surrogate: Bromofluorobenzene	0.0235		"	0.0250		94.0	69-134			
Surrogate: Dibromofluoromethane	0.0156		"	0.0250		62.4	63-124			S-GC
Surrogate: Toluene-d8	0.0200		"	0.0250		80.0	66-135			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce Gove
Laboratory Director

6/4/2007



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CHEMICAL EXAMINATION REPORT

Page 12 of 13

Sonoma Co. Dept. Public Works Testing Lab
2688 Ventura Ave.
Santa Rosa, CA 95403
Attn: Bill Riley

Report Date: 06/04/07 12:37
Project No: C03410/3501-05
Project ID: Sunset Beach River Access

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
07E0596	05/18/2007 13:30	SCPWTL	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE72509 - VOAs in Soil GCMS										
Matrix Spike Dup (AE72509-MSD1)		Source: 07E0594-01			Prepared & Analyzed: 05/23/07					
Benzene	0.00819	0.0050	mg/kg	0.0100	ND	81.9	29-145	14.7	25	
Toluene	0.00810	0.0050	"	0.0100	ND	81.0	33-148	18.2	25	
Ethylbenzene	0.00748	0.0050	"	0.0100	ND	74.8	23-150	21.9	25	
nes (total)	0.0226	0.0050	"	0.0300	ND	75.3	14-158	19.9	25	
Surrogate: Bromofluorobenzene	0.0249		"	0.0250		99.6	69-134			
Surrogate: Dibromofluoromethane	0.0161		"	0.0250		64.4	63-124			
Surrogate: Toluene-d8	0.0203		"	0.0250		81.2	66-135			

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Notes and Definitions

- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates.
- QM-04 High RPD and/or poor percent recovery may reflect sample non-homogeneity.
- QB-03 The method blank contains analyte at a concentration above the MRL; sample reporting limits were raised as necessary.
- 9 Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- PQL Practical Quantitation Limit