



CITADEL ENVIRONMENTAL SERVICES, INC.

assess
resolve
strengthen

October 28, 2016

Mr. Chuck Valdez
Chief Financial Officer
MOLE-RICHARDSON CO., LTD.
12154 Montague Street
Pacoima, California 91331

Re: CITADEL Project No. 0765.1069.0
Weekly Summary
October 24 - 28, 2016
Former Mole-Richardson Property
953 N. Sycamore Avenue
Los Angeles, California

Dear Mr. Valdez:

This letter summarizes monitoring by Citadel Environmental Services (Citadel) during onsite activities conducted by for Mole-Richardson Co., Ltd. at the above referenced property on October 24 through 28, 2016.

Citadel representative Mr. Jay Schneider provided oversight and documentation during onsite activities on October 26, 2016.

Onsite activities for this week focused on removal of an underground storage tank (UST) encountered at the Site and excavation of soil in the vicinity of the UST. Citadel collected samples of the contents of the UST and the soil excavated from a depth of two feet below the UST. The samples were analyzed for total petroleum hydrocarbons by EPA Method 8015, volatile organic compounds by EPA Method 8260, and Title 22 by EPA Method 6010B.

Laboratory report for the UST contents and soil samples, are included as Appendix A.

Please let me know if you have any questions or concerns at this time. Thank you.

Sincerely,

CITADEL ENVIRONMENTAL SERVICES, INC.

T. Michael Pendergrass, PG
Senior Project Geologist

Attachments

Appendix A Laboratory Reports



CITADEL
ENVIRONMENTAL SERVICES, INC.

Appendix A

Laboratory Reports



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Citadel Environmental Services, Inc
1725 Victory Boulevard
Glendale, CA 91201-

Number of Pages 16
Date Received 10/22/2016
Date Reported 10/28/2016

Telephone: (818)246-2707
Attention: Mark Drollinger

Job Number	Order Date	Client
84993	10/26/2016	CES

Project ID: 0765.1069.0
Project Name: 937 N Sycamore
Site: 937 N Sycamore Ave.
Los Angeles, CA 90038

Enclosed please find results of analyses of 2 solid samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



American Environmental Testing Laboratory Inc.

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Page: 1 A

Ordered By

Citadel Environmental Services, Inc
1725 Victory Boulevard
Glendale, CA 91201-

Project ID: 0765.1069.0
Date Received 10/22/6201
Date Reported 10/28/2016

Telephone: (818) 246-2707
Attention: Mark Drollinger

Job Number	Order Date	Client
84993	10/26/2016	CES

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 10/26/2016.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
84993.01	S-1	10/26/2016	Solid	2
84993.02	UST-6	10/26/2016	Solid	2

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM)	10/27/2016	2	Rush	mg/Kg
(8260B)	10/27/2016	2	Rush	ug/Kg
(M8015D) ^ C13-C40	10/27/2016	2	Rush	mg/Kg
(M8015G)	10/27/2016	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.
Laboratory Director



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ANALYTICAL RESULTS

Ordered By

Citadel Environmental Services, Inc
1725 Victory Boulevard
Glendale, CA 91201-

Site

937 N Sycamore Ave.
Los Angeles, CA 90038

Telephone: (818)246-2707

Attn: Mark Drollinger

Page: 2

Project ID: 0765.1069.0

Project Name: 937 N Sycamore

AETL Job Number	Submitted	Client
84993	10/22/6201	CES

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1026162A1

Our Lab I.D.		Method Blank				
Client Sample I.D.						
Date Sampled						
Date Prepared		10/26/2016				
Preparation Method		5030				
Date Analyzed		10/26/2016				
Matrix		Solid				
Units		ug/Kg				
Dilution Factor		1				
Analytes	MDL	PQL	Results			
Acetone	25	50	ND			
Benzene	1.0	10.0	ND			
Bromobenzene (Phenyl bromide)	5.0	10.0	ND			
Bromochloromethane	5.0	10.0	ND			
Bromodichloromethane	5.0	10.0	ND			
Bromoform (Tribromomethane)	25	50	ND			
Bromomethane (Methyl bromide)	15	30	ND			
2-Butanone (MEK)	25	50	ND			
n-Butylbenzene	5.0	10.0	ND			
sec-Butylbenzene	5.0	10.0	ND			
tert-Butylbenzene	5.0	10.0	ND			
Carbon Disulfide	25	50	ND			
Carbon tetrachloride	5.0	10.0	ND			
Chlorobenzene	5.0	10.0	ND			
Chloroethane	15	30	ND			
2-Chloroethyl vinyl ether	50	50	ND			
Chloroform (Trichloromethane)	5.0	10.0	ND			
Chloromethane (Methyl chloride)	15	30	ND			
2-Chlorotoluene	5.0	10.0	ND			
4-Chlorotoluene	5.0	10.0	ND			
1,2-Dibromo-3-chloropropane (DBCP)	25	50	ND			
Dibromochloromethane	5.0	10.0	ND			
1,2-Dibromoethane (EDB)	5.0	10.0	ND			
Dibromomethane	5.0	10.0	ND			
1,2-Dichlorobenzene	5.0	10.0	ND			
1,3-Dichlorobenzene	5.0	10.0	ND			
1,4-Dichlorobenzene	5.0	10.0	ND			
Dichlorodifluoromethane	15	30	ND			



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ANALYTICAL RESULTS

Page: 3

Project ID: 0765.1069.0
Project Name: 937 N Sycamore

AETL Job Number	Submitted	Client
84993	10/22/6201	CES

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1026162A1

Our Lab I.D.		Method Blank				
Client Sample I.D.						
Date Sampled						
Date Prepared		10/26/2016				
Preparation Method		5030				
Date Analyzed		10/26/2016				
Matrix		Solid				
Units		ug/Kg				
Dilution Factor		1				
Analytes	MDL	PQL	Results			
1,1-Dichloroethane	5.0	10.0	ND			
1,2-Dichloroethane (EDC)	5.0	10.0	ND			
1,1-Dichloroethene	5.0	10.0	ND			
cis-1,2-Dichloroethene	5.0	10.0	ND			
trans-1,2-Dichloroethene	5.0	10.0	ND			
1,2-Dichloropropane	5.0	10.0	ND			
1,3-Dichloropropane	5.0	10.0	ND			
2,2-Dichloropropane	5.0	10.0	ND			
1,1-Dichloropropene	5.0	10.0	ND			
cis-1,3-Dichloropropene	5.0	10.0	ND			
trans-1,3-Dichloropropene	5.0	10.0	ND			
Ethylbenzene	1.0	10.0	ND			
Hexachlorobutadiene	15	30	ND			
2-Hexanone	25	50	ND			
Iodomethane	5.0	10.0	ND			
Isopropylbenzene	5.0	10.0	ND			
p-Isopropyltoluene	5.0	10.0	ND			
4-Methyl-2-pentanone (MIBK)	25	50	ND			
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND			
Methylene chloride (DCM)	25	50	ND			
Naphthalene	5.0	10.0	ND			
n-Propylbenzene	5.0	10.0	ND			
Styrene	5.0	10.0	ND			
1,1,1,2-Tetrachloroethane	5.0	10.0	ND			
1,1,2,2-Tetrachloroethane	5.0	10.0	ND			
Tetrachloroethene	2.0	10.0	ND			
Toluene (Methyl benzene)	1.0	10.0	ND			
1,2,3-Trichlorobenzene	5.0	10.0	ND			
1,2,4-Trichlorobenzene	5.0	10.0	ND			
1,1,1-Trichloroethane	5.0	10.0	ND			
1,1,2-Trichloroethane	5.0	10.0	ND			
Trichloroethene	1.5	10.0	ND			
Trichlorofluoromethane	5.0	10.0	ND			
1,2,3-Trichloropropane	5.0	10.0	ND			



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ANALYTICAL RESULTS

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Project ID: 0765.1069.0
Project Name: 937 N Sycamore

AETL Job Number	Submitted	Client
84993	10/22/6201	CES

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1026162A1

Our Lab I.D.		Method Blank				
Client Sample I.D.						
Date Sampled						
Date Prepared		10/26/2016				
Preparation Method		5030				
Date Analyzed		10/26/2016				
Matrix		Solid				
Units		ug/Kg				
Dilution Factor		1				
Analytes	MDL	PQL	Results			
1,2,4-Trimethylbenzene	5.0	10.0	ND			
1,3,5-Trimethylbenzene	5.0	10.0	ND			
Vinyl Acetate	25	50	ND			
Vinyl chloride (Chloroethene)	5.0	10.0	ND			
o-Xylene	1.0	10.0	ND			
m,p-Xylenes	1.0	20.0	ND			
Our Lab I.D.		Method Blank				
Surrogates	%Rec.Limit	% Rec.				
Bromofluorobenzene	75-125	96.6				
Dibromofluoromethane	75-125	102				
Toluene-d8	75-125	103				



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ANALYTICAL RESULTS

Ordered By

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Glendale, CA 91201-

Site

937 N Sycamore Ave.
Los Angeles, CA 90038

Telephone: (818)246-2707

Attn: Mark Drollinger

Page: 5

Project ID: 0765.1069.0

Project Name: 937 N Sycamore

AETL Job Number	Submitted	Client
84993	10/22/6201	CES

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1026162A1

Our Lab I.D.			84993.01	84993.02			
Client Sample I.D.			S-1	UST-6			
Date Sampled			10/26/2016	10/26/2016			
Date Prepared			10/26/2016	10/26/2016			
Preparation Method			5030	5030			
Date Analyzed			10/26/2016	10/26/2016			
Matrix			Solid	Solid			
Units			ug/Kg	ug/Kg			
Dilution Factor			5	5			
Analytes	MDL	PQL	Results	Results			
Acetone	125	250	ND	ND			
Benzene	5	50	ND	92.5			
Bromobenzene (Phenyl bromide)	25	50	ND	ND			
Bromochloromethane	25	50	ND	ND			
Bromodichloromethane	25	50	ND	ND			
Bromoform (Tribromomethane)	125	250	ND	ND			
Bromomethane (Methyl bromide)	75	150	ND	ND			
2-Butanone (MEK)	125	250	ND	ND			
n-Butylbenzene	25	50	960	1,770			
sec-Butylbenzene	25	50	ND	1,210			
tert-Butylbenzene	25	50	ND	ND			
Carbon Disulfide	125	250	ND	ND			
Carbon tetrachloride	25	50	ND	ND			
Chlorobenzene	25	50	ND	ND			
Chloroethane	75	150	ND	ND			
2-Chloroethyl vinyl ether	250	250	ND	ND			
Chloroform (Trichloromethane)	25	50	ND	ND			
Chloromethane (Methyl chloride)	75	150	ND	ND			
2-Chlorotoluene	25	50	ND	ND			
4-Chlorotoluene	25	50	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	125	250	ND	ND			
Dibromochloromethane	25	50	ND	ND			
1,2-Dibromoethane (EDB)	25	50	ND	ND			
Dibromomethane	25	50	ND	ND			
1,2-Dichlorobenzene	25	50	ND	ND			
1,3-Dichlorobenzene	25	50	ND	ND			
1,4-Dichlorobenzene	25	50	ND	ND			
Dichlorodifluoromethane	75	150	ND	ND			



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ANALYTICAL RESULTS

Page: 6

Project ID: 0765.1069.0
Project Name: 937 N Sycamore

AETL Job Number	Submitted	Client
84993	10/22/6201	CES

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1026162A1

Our Lab I.D.			84993.01	84993.02			
Client Sample I.D.			S-1	UST-6			
Date Sampled			10/26/2016	10/26/2016			
Date Prepared			10/26/2016	10/26/2016			
Preparation Method			5030	5030			
Date Analyzed			10/26/2016	10/26/2016			
Matrix			Solid	Solid			
Units			ug/Kg	ug/Kg			
Dilution Factor			5	5			
Analytes	MDL	PQL	Results	Results			
1,1-Dichloroethane	25	50	ND	ND			
1,2-Dichloroethane (EDC)	25	50	ND	ND			
1,1-Dichloroethene	25	50	ND	ND			
cis-1,2-Dichloroethene	25	50	ND	ND			
trans-1,2-Dichloroethene	25	50	ND	ND			
1,2-Dichloropropane	25	50	ND	ND			
1,3-Dichloropropane	25	50	ND	ND			
2,2-Dichloropropane	25	50	ND	ND			
1,1-Dichloropropene	25	50	ND	ND			
cis-1,3-Dichloropropene	25	50	ND	ND			
trans-1,3-Dichloropropene	25	50	ND	ND			
Ethylbenzene	5	50	125	159			
Hexachlorobutadiene	75	150	ND	ND			
2-Hexanone	125	250	ND	ND			
Iodomethane	25	50	ND	ND			
Isopropylbenzene	25	50	367	446			
p-Isopropyltoluene	25	50	585	1,250			
4-Methyl-2-pentanone (MIBK)	125	250	ND	ND			
Methyl-tert-butyl ether (MTBE)	10	50	ND	ND			
Methylene chloride (DCM)	125	250	ND	ND			
Naphthalene	25	50	363	111			
n-Propylbenzene	25	50	1,250	1,620			
Styrene	25	50	ND	ND			
1,1,1,2-Tetrachloroethane	25	50	ND	ND			
1,1,2,2-Tetrachloroethane	25	50	ND	ND			
Tetrachloroethene	10	50	ND	471			
Toluene (Methyl benzene)	5	50	ND	181			
1,2,3-Trichlorobenzene	25	50	ND	ND			
1,2,4-Trichlorobenzene	25	50	ND	ND			
1,1,1-Trichloroethane	25	50	ND	ND			
1,1,2-Trichloroethane	25	50	ND	ND			
Trichloroethene	7	50	ND	142			
Trichlorofluoromethane	25	50	ND	ND			
1,2,3-Trichloropropane	25	50	ND	ND			



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ANALYTICAL RESULTS

Page: 7

Project ID: 0765.1069.0
Project Name: 937 N Sycamore

AETL Job Number	Submitted	Client
84993	10/22/6201	CES

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1026162A1

Our Lab I.D.			84993.01	84993.02			
Client Sample I.D.			S-1	UST-6			
Date Sampled			10/26/2016	10/26/2016			
Date Prepared			10/26/2016	10/26/2016			
Preparation Method			5030	5030			
Date Analyzed			10/26/2016	10/26/2016			
Matrix			Solid	Solid			
Units			ug/Kg	ug/Kg			
Dilution Factor			5	5			
Analytes	MDL	PQL	Results	Results			
1,2,4-Trimethylbenzene	25	50	3,300	8,600			
1,3,5-Trimethylbenzene	25	50	1,090	2,540			
Vinyl Acetate	125	250	ND	ND			
Vinyl chloride (Chloroethene)	25	50	ND	ND			
o-Xylene	5	50	193	482			
m,p-Xylenes	5	100	297	630			
Our Lab I.D.			84993.01	84993.02			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Bromofluorobenzene	75-125		105	85.2			
Dibromofluoromethane	75-125		122	122			
Toluene-d8	75-125		109	113			



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Page: 8

Project ID: 0765.1069.0

Project Name: 937 N Sycamore

AETL Job Number	Submitted	Client
84993	10/22/6201	CES

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 1026160B1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			10/26/2016				
Preparation Method			5030				
Date Analyzed			10/26/2016				
Matrix			Solid				
Units			mg/Kg				
Dilution Factor			1				
Analytes	MDL	PQL	Results				
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND				
Our Lab I.D.			Method Blank				
Surrogates	%Rec.Limit		% Rec.				
Bromofluorobenzene	75-125		98.0				



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Page: 9

Project ID: 0765.1069.0

Project Name: 937 N Sycamore

AETL Job Number	Submitted	Client
84993	10/22/6201	CES

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 1026160B1

Our Lab I.D.			84993.01	84993.02			
Client Sample I.D.			S-1	UST-6			
Date Sampled			10/26/2016	10/26/2016			
Date Prepared			10/26/2016	10/26/2016			
Preparation Method			5030	5030			
Date Analyzed			10/26/2016	10/26/2016			
Matrix			Solid	Solid			
Units			mg/Kg	mg/Kg			
Dilution Factor			500	500			
Analytes	MDL	PQL	Results	Results			
TPH as Gasoline and Light HC. (C4-C12)	50	500	1,500	2,158			
Our Lab I.D.			84993.01	84993.02			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Bromofluorobenzene	75-125		96.0	103			



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Telephone: (818)246-2707

Attn: Mark Drollinger

Page: 10

Project ID: 0765.1069.0

Project Name: 937 N Sycamore

AETL Job Number	Submitted	Client
84993	10/22/6201	CES

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 102716DB1

Our Lab I.D.			Method Blank	84993.01	84993.02		
Client Sample I.D.				S-1	UST-6		
Date Sampled				10/26/2016	10/26/2016		
Date Prepared			10/27/2016	10/27/2016	10/27/2016		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			10/27/2016	10/27/2016	10/27/2016		
Matrix			Solid	Solid	Solid		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
TPH as Diesel (C13-C22)	1.0	5.0	ND	5.60	15.0		
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND		
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	5.60	15.0		
Our Lab I.D.			Method Blank	84993.01	84993.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Chlorobenzene	75-125		99.8	96.2	90.2		



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Attn: Mark Drollinger

Page: 11

Project ID: 0765.1069.0

Project Name: 937 N Sycamore

AETL Job Number	Submitted	Client
84993	10/22/6201	CES

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1027162C1

Our Lab I.D.			Method Blank	84993.01	84993.02		
Client Sample I.D.				S-1	UST-6		
Date Sampled				10/26/2016	10/26/2016		
Date Prepared			10/27/2016	10/27/2016	10/27/2016		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			10/27/2016	10/27/2016	10/27/2016		
Matrix			Solid	Solid	Solid		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Antimony	1.0	5.0	ND	ND	ND		
Arsenic	1.0	5.0	ND	ND	ND		
Barium	2.5	5.0	ND	65.8	94.3		
Beryllium	1.3	2.5	ND	ND	ND		
Cadmium	1.3	2.5	ND	ND	ND		
Chromium	2.5	5.0	ND	17.9	36.6		
Cobalt	2.5	5.0	ND	6.42	12.7		
Copper	2.5	5.0	ND	15.4	16.1		
Lead	2.5	5.0	ND	6.88	2.55J		
Mercury (By EPA 7471)	0.1	0.2	ND	ND	ND		
Molybdenum	2.5	5.0	ND	ND	ND		
Nickel	2.5	5.0	ND	11.4	22.9		
Selenium	1.0	5.0	ND	ND	ND		
Silver	2.5	5.0	ND	ND	ND		
Thallium	1.0	5.0	ND	ND	ND		
Vanadium	2.5	5.0	ND	25.7	49.5		
Zinc	2.5	5.0	ND	45.8	45.7		



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Citadel Environmental Services, Inc
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Glendale, CA 91201-

Site

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Los Angeles, CA 90038

Telephone: (818)246-2707

Attn: Mark Drollinger

Page: 12

Project ID: 0765.1069.0

Project Name: 937 N Sycamore

AETL Job Number	Submitted	Client
84993	10/22/6201	CES

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1026162A1; Dup or Spiked Sample: B1026162A1; LCS: Blank; QC Prepared: 10/26/2016; QC Analyzed: 10/26/2016;

Units: ug/Kg

Analytes	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit	
Benzene	50.0	51.2	102	50.0	51.4	103	<1	75-125	<20	
Chlorobenzene	50.0	52.1	104	50.0	52.4	105	<1	75-125	<20	
1,1-Dichloroethene	50.0	50.8	102	50.0	50.8	102	<1	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	58.5	117	50.0	58.2	116	<1	75-125	<20	
Toluene (Methyl benzene)	50.0	52.4	105	50.0	52.1	104	<1	75-125	<20	
Trichloroethene	50.0	54.2	108	50.0	53.8	108	<1	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	48.4	96.8	50.0	49.2	98.3	1.55	75-125	<20	
Dibromofluoromethane	50.0	46.3	92.7	50.0	52.8	106	14.3	75-125	<20	
Toluene-d8	50.0	49.5	99.0	50.0	48.9	97.8	1.21	75-125	<20	

QC Batch No: 1026162A1; Dup or Spiked Sample: B1026162A1; LCS: Blank; QC Prepared: 10/26/2016; QC Analyzed: 10/26/2016;

Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	50.0	48.9	97.8	50.0	51.3	103	5.18	75-125	<20	
Chlorobenzene	50.0	49.8	99.6	50.0	52.2	104	4.32	75-125	<20	
1,1-Dichloroethene	50.0	57.3	115	50.0	52.2	104	10.0	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	56.8	114	50.0	58.9	118	3.45	75-125	<20	
Toluene (Methyl benzene)	50.0	50.6	101	50.0	52.8	106	4.83	75-125	<20	
Trichloroethene	50.0	51.2	102	50.0	53.5	107	4.78	75-125	<20	
LCS										
Chloroform (Trichloromethane)	50.0	51.2	102	50.0	54.4	109	6.64	75-125	<20	
Ethylbenzene	50.0	48.6	97.2	50.0	51.1	102	4.82	75-125	<20	
1,1,1-Trichloroethane	50.0	50.5	101	50.0	52.2	104	2.93	75-125	<20	
o-Xylene	50.0	47.8	95.6	50.0	50.5	101	5.49	75-125	<20	
m,p-Xylenes	100	93.3	93.3	100	97.9	97.9	4.81	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	48.2	96.5	50.0	48.5	96.9	<1	75-125	<20	
Dibromofluoromethane	50.0	53.2	106	50.0	53.6	107	<1	75-125	<20	
Toluene-d8	50.0	48.8	97.5	50.0	49.3	98.6	1.13	75-125	<20	



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Page: 13

Project ID: 0765.1069.0

Project Name: 937 N Sycamore

AETL Job Number	Submitted	Client
84993	10/22/6201	CES

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 102616OB1; Dup or Spiked Sample: 84993.01; LCS: Blank; QC Prepared: 10/26/2016; QC Analyzed: 10/26/2016;
Units: mg/Kg

Analytes	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.950	95.0	1.00	0.990	99.0	4.1	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	47.5	95.0	50.0	46.2	92.3	2.9	75-125	<20	

QC Batch No: 102616OB1; Dup or Spiked Sample: 84993.01; LCS: Blank; QC Prepared: 10/26/2016; QC Analyzed: 10/26/2016;
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.900	90.0	1.00	0.910	91.0	1.1	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	46.0	92.0	50.0	46.0	92.0	<1	75-125	<20	



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Project ID: 0765.1069.0

Project Name: 937 N Sycamore

AETL Job Number	Submitted	Client
84993	10/22/6201	CES

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 102716DB1; Dup or Spiked Sample: 85002.02; LCS: Blank; QC Prepared: 10/27/2016; QC Analyzed: 10/27/2016;
Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	365 #	73.0	500	359 #	71.8	1.7	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	85.1	85.1	100	85.2	85.2	<1	75-125	<20

QC Batch No: 102716DB1; Dup or Spiked Sample: 85002.02; LCS: Blank; QC Prepared: 10/27/2016; QC Analyzed: 10/27/2016;
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	625	125	500	625	125	<1	75-125	<20	
Surrogates										
Chlorobenzene	100	92.5	92.5	100	91.6	91.6	<1	75-125	<20	



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Page: 15

Project ID: 0765.1069.0

Project Name: 937 N Sycamore

AETL Job Number	Submitted	Client
84993	10/22/6201	CES

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1027162C1; Dup or Spiked Sample: 84993.01; LCS: Blank; QC Prepared: 10/27/2016; QC Analyzed: 10/27/2016;
Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	43.0	86.0	50.0	42.8	85.6	<1	75-125	<15
Arsenic	0.00	50.0	43.8	87.6	50.0	43.4	86.8	<1	75-125	<15
Barium	65.8	50.0	114	96.4	50.0	112	92.4	4.24	75-125	<15
Beryllium	0.00	50.0	48.7	97.4	50.0	47.9	95.8	1.66	75-125	<15
Cadmium	0.00	50.0	41.8	83.6	50.0	41.1	82.2	1.69	75-125	<15
Chromium	17.9	50.0	69.4	103	50.0	68.9	102	<1	75-125	<15
Cobalt	6.42	50.0	49.6	86.4	50.0	49.4	86.0	<1	75-125	<15
Copper	15.4	50.0	62.6	94.4	50.0	61.0	91.2	3.45	75-125	<15
Lead	6.88	50.0	40.1 M	66.4	50.0	39.6 M	65.4	1.52	75-125	<15
Mercury (By EPA 7471)	0.00	0.500	0.680M	136	0.500	0.695M	139	2.2	75-125	<15
Molybdenum	0.00	50.0	41.6	83.2	50.0	41.7	83.4	<1	75-125	<15
Nickel	11.4	50.0	53.1	83.4	50.0	52.3	81.8	1.94	75-125	<15
Selenium	0.00	50.0	32.3 M	64.6	50.0	31.5 M	63.0	2.51	75-125	<15
Silver	0.00	50.0	42.0	84.0	50.0	41.3	82.6	1.68	75-125	<15
Thallium	0.00	50.0	34.3 M	68.6	50.0	34.3 M	68.6	<1	75-125	<15
Vanadium	25.7	50.0	78.2	105	50.0	77.2	103	1.92	75-125	<15
Zinc	45.8	50.0	85.4	79.2	50.0	83.2 M	74.8	5.71	75-125	<15

QC Batch No: 1027162C1; Dup or Spiked Sample: 84993.01; LCS: Blank; QC Prepared: 10/27/2016; QC Analyzed: 10/27/2016;
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	
Arsenic	50.0	49.9	99.8	50.0	50.5	101	1.20	75-125	<15	
Barium	50.0	50.5	101	50.0	51.0	102	<1	75-125	<15	
Beryllium	50.0	55.0	110	50.0	55.0	110	<1	75-125	<15	
Cadmium	50.0	52.0	104	50.0	52.5	105	<1	75-125	<15	
Chromium	50.0	50.0	100	50.0	50.5	101	<1	75-125	<15	
Cobalt	50.0	50.5	101	50.0	51.5	103	1.96	75-125	<15	
Copper	50.0	48.3	96.6	50.0	48.4	96.8	<1	75-125	<15	
Lead	50.0	49.7	99.4	50.0	50.0	100	<1	75-125	<15	



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QUALITY CONTROL RESULTS

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Project ID: 0765.1069.0
Project Name: 937 N Sycamore

AETL Job Number	Submitted	Client
84993	10/22/6201	CES

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1027162C1; Dup or Spiked Sample: 84993.01; LCS: Blank; QC Prepared: 10/27/2016; QC Analyzed: 10/27/2016;
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.550	110	0.500	0.530	106	3.7	75-125	<15	
Molybdenum	50.0	48.9	97.8	50.0	49.7	99.4	1.62	75-125	<15	
Nickel	50.0	50.5	101	50.0	51.0	102	<1	75-125	<15	
Selenium	50.0	49.9	99.8	50.0	51.0	102	2.18	75-125	<15	
Silver	50.0	51.0	102	50.0	51.5	103	<1	75-125	<15	
Thallium	50.0	51.0	102	50.0	51.5	103	<1	75-125	<15	
Vanadium	50.0	51.0	102	50.0	51.0	102	<1	75-125	<15	
Zinc	50.0	52.5	105	50.0	53.0	106	<1	75-125	<15	



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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference
