PARSONS

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Technical Memorandum

Date: 9 November 2016

To: Ms. Sarah Cromie, Sr. Hazardous Substance Scientist
California Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, California 95826-3200

Subject: ***Report for Preliminary Investigation Area Property PIA-06059***
1229 Prado Street
Los Angeles, California 90023

This Technical Memorandum presents a summary of the sample results for 1229 Prado Street (Property), designated as Preliminary Investigation Area (PIA) Property number PIA-06059 (Figure 1). This property was sampled on July 13, 2016. A total of 11 borings were hand-augered up to a maximum depth of 18 inches (Figure 2).

Soil samples were analyzed in the field using a portable X-ray fluorescence (XRF) meter (Table 1). Select soil samples were also submitted to an offsite laboratory, for analysis of lead and other metals (Table 2). In addition, lead-based paint (LBP) was assessed with an XRF meter at six locations on the exterior of the structures at the Property (Figure 3). If loose or flakey paint was observed, samples were also collected and submitted to the laboratory for analysis. The analytical laboratory report is provided in Attachment 1.

DTSC's current level of concern for lead in soil is 80 parts per million (ppm) for residential properties associated with the PIA. Additionally paint with lead above 600 ppm or 0.7 milligrams per square centimeter (mg/cm^2) is considered to be LBP. Analytical results from field XRF sampling are measured in ppm and laboratory analyses are reported in milligrams per kilogram (mg/kg); for the purposes of this report, ppm and mg/kg are used interchangeably.

The XRF meter detected lead concentrations in the soil sampled at your property ranging from 25 to 491 ppm. To compare the data from the two different methods, DTSC applied a linear regression analyses for the assessed homes, which showed excellent correlation between the XRF and laboratory set of data, indicating that results are statistically reliable.

Assessment of locations on this property for LBP using the XRF unit shows that LBP is present at the Property (Table 3). Paint sample results ranged from 0.00 to 4.50 mg/cm^2 on the XRF unit. Loose and flakey paint was observed at the Property. One paint sample was collected and submitted for analysis to the laboratory.

CLOSING

If you have any questions or require further information, please contact me directly.

Sincerely,

Shala Craig, P.E. #C-69804
Parsons Project Manager
Attachments: Table 1 – XRF Results for Lead in Soil Samples
Table 2 – Laboratory Results for Soil Samples
Table 3 – XRF and Laboratory Results for Paint Samples
Figure 1 – Site Location Map
Figure 2 – Soil Sample Location Map
Figure 3 – Paint Sample Location Map
Attachment 1 – Analytical Laboratory Report

cc: Peter Ruttan, DTSC

TABLES

Table 1
XRF Results for Lead in Soil Samples
PIA No. 06059
Date: 7/13/2016

Sample ID		PIA06059-1-3	PIA06059-2-3	PIA06059-3-3	PIA06059-3-6	PIA06059-3-12	PIA06059-3-18	PIA06059-4-3	PIA06059-5-3	PIA06059-6-3	PIA06059-7-3	PIA06059-8-3	PIA06059-8-6	PIA06059-8-12	PIA06059-8-18	PIA06059-9-3	PIA06059-10-3	PIA06059-11DZ-3
Depth (inches)	0-3	**228**	**171**	**281**	NS	NS	NS	**364**	**364**	**351**	**480**	**310**	NS	NS	NS	**318**	**491**	**362**
	3-6	NS	NS	NS	**211**	NS	NS	NS	NS	NS	NS	NS	**219**	NS	NS	NS	NS	NS
	6-12	NS	NS	NS	NS	**76**	NS	NS	NS	NS	NS	NS	NS	**168**	NS	NS	NS	NS
	12-18	NS	NS	NS	NS	NS	**25**	NS	NS	NS	NS	NS	NS	NS	**100**	NS	NS	NS

Notes:
NA = Not Analyzed
NS = Not Sampled
ppm = parts per million
Detected soil concentrations are in **BOLD**
Concentrations >1,000 ppm

Table 2
Laboratory Results for Soil Samples
PIA No. 06059

Sample ID	Date	Laboratory Report	Matrix	Depth (in)	Antimony	Arsenic	Cadmium	Copper	Lead	Zinc
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PIA06059-7-3	7/13/2016	83912	Soil	0-3	**2.36**	**5.55**	**1.71**	**79.4**	**390**	**600**
PIA06059-10-3	7/13/2016	83912	Soil	0-3	**1.97**	**6.25**	**1.46**	**83.3**	**432**	**626**

Notes:
Detection concentrations are in **BOLD** text
ND<____ = Non-detect at the laboratory reporting limit
Lead concentrations > 1,000 mg/kg
Laboratory Detection Limits:
Antimony = 1.0 mg/kg
Arsenic = 1.0 mg/kg
Cadmium = 1.3 mg/kg
Copper = 2.5 mg/kg
Lead = 0.05 to 50 mg/kg
Zinc = 2.0 to 200 mg/kg

Table 3
XRF and Laboratory Results for Paint Samples
PIA No. 06059

Sample ID	Date	Matrix	Location	Media Type (Stucco, Wood, Trim, etc.)	Media Color	Lead (Pb) Result		Comments
						XRF (mg/cm^2)	Laboratory (mg/kg)	
PIA06059-L1	7/13/2016	Paint	East Side of House	Stucco	Yellow	**1.80**	NA	
PIA06059-L2	7/13/2016	Paint	East Side of House	Wood	White	**1.30**	NA	
PIA06059-L3	7/13/2016	Paint	East Side of House	Wood	White	**2.60**	NA	
PIA06059-L4	7/13/2016	Paint	West Side of House	Wood	Yellow	**4.50**	**34100**	
PIA06059-L5	7/13/2016	Paint	East Side of Back House	Wood	Yellow	**0.00**	NA	
PIA06059-L6	7/13/2016	Paint	East Side of Back House	Wood	Brown	**0.00**	NA	

Notes:
mg/cm^2 = milligrams per square centimeter
mg/kg = milligrams per kilogram
NA = Not Analyzed
Exceeds LA County DPH goals (0.7 mg/cm^2 or 600 mg/kg)

FIGURES

Source: Los Angeles County Parcel Viewer, 2016

N

Property Location

0 100 200

APPROXIMATE SCALE IN FEET

SITE LOCATION MAP

CLIENT: DTSC - EXIDE

LOCATION: PIA-06059
1229 Prado St., Los Angeles, CA

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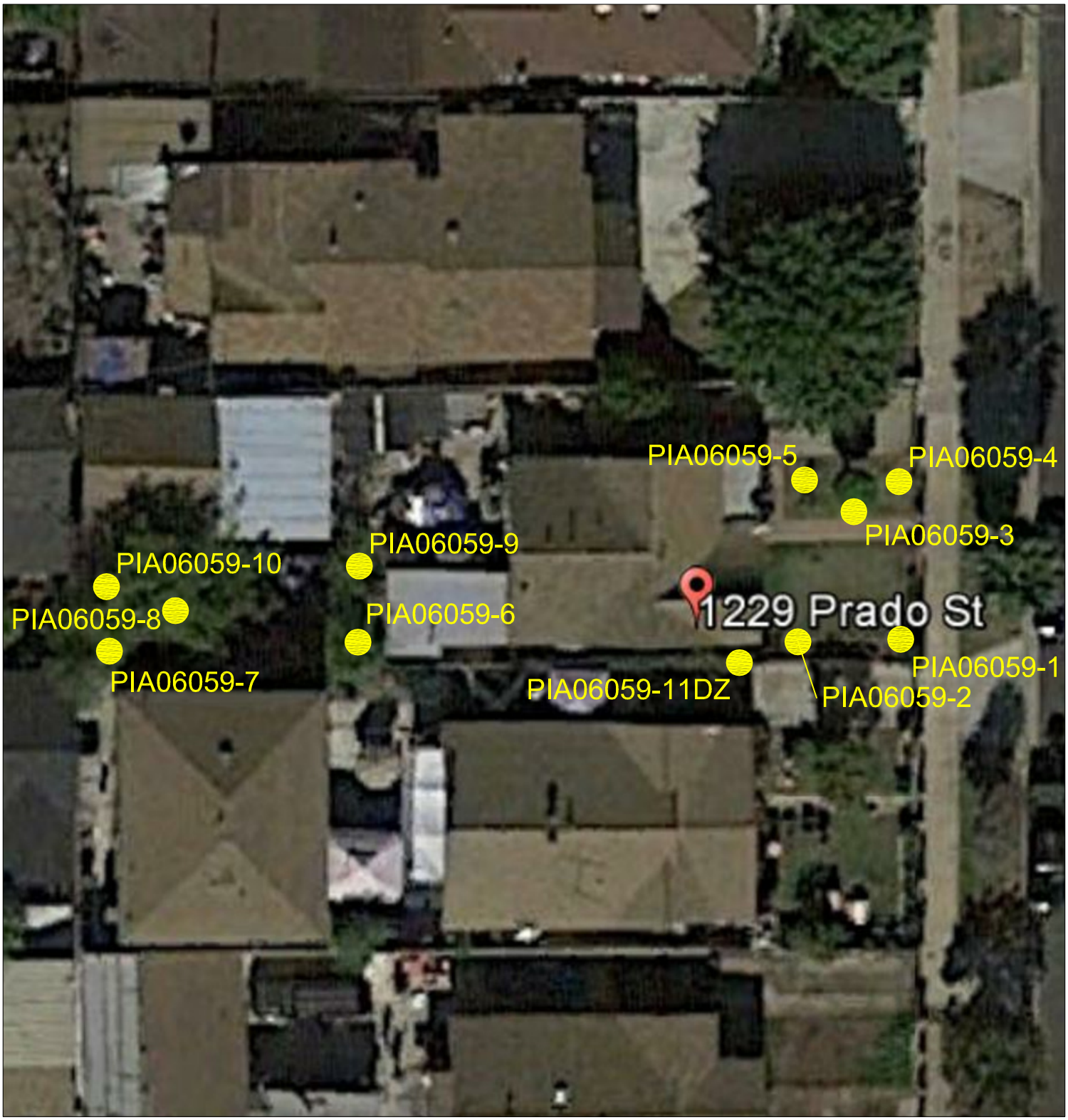
FIGURE: 1

K:\Depts\Dept420\DTSC\Orphan Sites MSA\Exide\Sampling\Reports



Source: Google Earth, 2016

N

Soil Sample Location

0 20 40

APPROXIMATE SCALE IN FEET

SOIL SAMPLE LOCATION MAP

CLIENT: DTSC - EXIDE

LOCATION: PIA-06059
1229 Prado St., Los Angeles, CA

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FIGURE: 2

K:\Depts\Dept426\DTSC\Orphan Sites MSA\Exide\Sampling\Reports

Source: Google Earth, 2016

N

Paint Sample Location

0 20 40

APPROXIMATE SCALE IN FEET

PAINT SAMPLE LOCATION MAP

CLIENT:	DTSC - EXIDE
LOCATION:	PIA-06059 1229 Prado St., Los Angeles, CA

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FIGURE: 3

K:\Depts\Dept420\DTSC\Orphan Sites MSA\Exide\Sampling\Reports

ATTACHMENT 1
ANALYTICAL 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

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Number of Pages	**8**
Date Received	**08/08/2016**
Date Reported	**09/01/2016**

Telephone: (626)440-6161
Attention: Shala Craig

Job Number	Order Date	Client
83912	08/08/2016	PARSNS

Project ID: 449646-01013
Project Name: DTSC Exide Off-Site Sampling
Site: DTSC Exide Off-Site Sampling
PIA06059

Enclosed please find results of analyses of 2 soil and 1 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: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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83912 CHAIN OF CUSTODY RECORD

1 of 1

COMPANY	Parsons	PHONE	626-440-6161
PROJECT MANAGER	Shala Craig	FAX	626-440-2993
PROJECT NAME	DTSC Exide Off-Site Sampling	PROJECT #	449646-01013
SITE NAME and Address	DTSC Exide Off-Site Sampling, PIA06059		

	SAMPLE ID	LAB ID	DATE / TIME	MATRIX	#	PRES.	Pb(6010B)	As, Cd, Cu, Sb, Zn (6010B)	ANALYSIS REQUESTED	COMMENTS
1	PIA06059-10-3	83912-01	7/13/2016@1109	Soil	1	Ice	X	X		
2	PIA06059-7-3	83912-02	7/13/2016@1106	Soil	1	Ice	X	X		
3	PIA06059-L4	83912-03	7/13/2016@1130	Paint	1	Ice	X			
4	EBPIA06059-071316	83912-04	7-13-2016 1100	water	1	Ice	X			
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

SAMPLE RECEIPT – TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	4	NA
CUSTODY SEALS Y / N / NA		NA
RECEIVED IN GOOD COND. Y / N		N

TURN AROUND TIME

X NORMAL O RUSH

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature:	Signature:	Signature:
Printed Name: Cynthia Oppenheimer	Printed Name:	Printed Name: 8/8/16 1630
RECEIVED BY:	RECEIVED BY:	RECEIVED BY: AETL
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Dean Clarke
Date / Time: 8/8/16 1505	Date / Time:	Date / Time: 08/08/16 1630

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Parsons
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Pasadena, CA 91124-

Telephone: (626)440-6161
Attention: Shala Craig

Project ID: 449646-01013
Date Received 08/08/2016
Date Reported 09/01/2016

Job Number	Order Date	Client
83912	08/08/2016	PARSNS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 4 samples with the following specification on 08/08/2016.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
83912.04	EBPIA06059-071316	07/13/2016	Aqueous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
6010B.LEAD	08/15/2016	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
83912.01	PIA06059-10-3	07/13/2016	Soil	1
83912.02	PIA06059-7-3	07/13/2016	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010BSCAN) ^ 6-METALS-2	08/15/2016	2	Normal	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
83912.03	PIA06059-L4	07/13/2016	Solid	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	08/15/2016	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Telephone: (626)440-6161
Attn: Shala Craig

Site

DTSC Exide Off-Site Sampling
PIA06059

Page: **2**

Project ID: 449646-01013
Project Name: DTSC Exide Off-Site Sampling

AETL Job Number	Submitted	Client
83912	08/08/2016	PARSNS

Method: 6010B.LEAD, Lead, ICP

QC Batch No: 0823162C9

Our Lab I.D.			Method Blank	83912.04			
Client Sample I.D.				EBPIA06059-071316			
Date Sampled				07/13/2016			
Date Prepared			08/23/2016	08/23/2016			
Preparation Method			3005A	3005A			
Date Analyzed			08/24/2016	08/24/2016			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	0.05	0.10	ND	ND			

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Page: **3**

Site

DTSC Exide Off-Site Sampling
PIA06059

Project ID: 449646-01013
Project Name: DTSC Exide Off-Site Sampling

AETL Job Number	Submitted	Client
83912	08/08/2016	PARSNS

Method: (6010BSCAN), Sb, As, Cd, Cu, Pb, and Zn Metals by ICP

QC Batch No: 0823162C6

Our Lab I.D.			Method Blank	83912.01	83912.02		
Client Sample I.D.				PIA06059-10-3	PIA06059-7-3		
Date Sampled				07/13/2016	07/13/2016		
Date Prepared			08/23/2016	08/23/2016	08/23/2016		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			08/23/2016	08/24/2016	08/24/2016		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Antimony	1.0	10.0	ND	1.97J	2.36J		
Arsenic	1.0	10.0	ND	6.25J	5.55J		
Cadmium	1.3	2.5	ND	1.46J	1.71J		
Copper	2.5	5.0	ND	83.3	79.4		
Lead	2.5	5.0	ND	432	390		
Zinc	2.5	5.0	ND	626	600		

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ANALYTICAL RESULTS

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Attn: Shala Craig
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Site

DTSC Exide Off-Site Sampling
PIA06059

Project ID: 449646-01013
Project Name: DTSC Exide Off-Site Sampling

AETL Job Number	Submitted	Client
83912	08/08/2016	PARSNS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0823162C7

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/23/2016				
Preparation Method			3050B				
Date Analyzed			08/24/2016				
Matrix			Solid				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.5	5.0	ND				

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ANALYTICAL RESULTS

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Site

DTSC Exide Off-Site Sampling
PIA06059

Page: **5**

Project ID: 449646-01013
Project Name: DTSC Exide Off-Site Sampling

AETL Job Number	Submitted	Client
83912	08/08/2016	PARSNS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0823162C7

Our Lab I.D.			83912.03				
Client Sample I.D.			PIA06059-L4				
Date Sampled			07/13/2016				
Date Prepared			08/23/2016				
Preparation Method			3050B				
Date Analyzed			08/24/2016				
Matrix			Solid				
Units			mg/Kg				
Dilution Factor			500				
Analytes	**MDL**	**PQL**	**Results**				
Lead	1250	2500	34,100				

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QUALITY CONTROL RESULTS

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Telephone: (626)440-6161
Attn: Shala Craig

Site

DTSC Exide Off-Site Sampling
PIA06059

Page: 6

Project ID: 449646-01013
Project Name: DTSC Exide Off-Site Sampling

AETL Job Number	Submitted	Client
83912	08/08/2016	PARSNS

Method: 6010B.LEAD, Lead, ICP

QC Batch No: 0823162C9; Dup or Spiked Sample: 83659.03; LCS: Clean Water; QC Prepared: 08/23/2016; QC Analyzed: 08/24/2016; Units: mg/L

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
Lead	0.00	1.00	0.757	75.7	1.00	0.750	75.0	<1	75-125	<15

QC Batch No: 0823162C9; Dup or Spiked Sample: 83659.03; LCS: Clean Water; QC Prepared: 08/23/2016; QC Analyzed: 08/24/2016; Units: mg/L

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	
Lead	1.00	0.798	79.8	1.00	0.796	79.6	<1	75-125	<15	

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Page: **7**

Site

DTSC Exide Off-Site Sampling
PIA06059

Project ID: 449646-01013
Project Name: DTSC Exide Off-Site Sampling

AETL Job Number	Submitted	Client
83912	08/08/2016	PARSNS

Method: (6010BSCAN), Sb, As, Cd, Cu, Pb, and Zn Metals by ICP

QC Batch No: 0823162C6; Dup or Spiked Sample: 83908.01; LCS: Clean Sand; QC Prepared: 08/23/2016; QC Analyzed: 08/23/2016; 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	45.0	90.0	50.0	44.6	89.2	<1	75-125	<15
Arsenic	3.28	50.0	48.8	91.0	50.0	48.2	89.8	1.3	75-125	<15
Cadmium	0.00	50.0	47.4	94.8	50.0	47.2	94.4	<1	75-125	<15
Copper	36.1	50.0	95.1	118	50.0	96.1	120	1.7	75-125	<15
Lead	389	50.0	516 M	254	50.0	514 M	250	1.6	75-125	<15
Zinc	740	50.0	909 M	338	50.0	914 M	348	2.9	75-125	<15

QC Batch No: 0823162C6; Dup or Spiked Sample: 83908.01; LCS: Clean Sand; QC Prepared: 08/23/2016; QC Analyzed: 08/23/2016; 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	47.2	94.4	50.0	46.6	93.2	1.3	75-125	<15	
Arsenic	50.0	48.9	97.8	50.0	47.8	95.6	2.3	75-125	<15	
Cadmium	50.0	52.5	105	50.0	52.5	105	<1	75-125	<15	
Copper	50.0	51.5	103	50.0	52.0	104	<1	75-125	<15	
Lead	50.0	50.0	100	50.0	49.6	99.2	<1	75-125	<15	
Zinc	50.0	52.0	104	50.0	52.5	105	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Ordered By

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Pasadena, CA 91124-

Telephone: (626)440-6161
Attn: Shala Craig

Site

DTSC Exide Off-Site Sampling
PIA06059

Project ID: 449646-01013
Project Name: DTSC Exide Off-Site Sampling

AETL Job Number	Submitted	Client
83912	08/08/2016	PARSNS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0823162C7; LCS: Blank; LCS Prepared: 08/23/2016; LCS Analyzed: 08/24/2016; 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	
Lead	50.0	49.9	99.8	50.0	50.0	100	<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