Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Edmund G. Brown Jr.
Governor

June 29, 2016

Robert Laughton, LEED AP
Director, Environmental Health and Safety
Los Angeles Unified School District
333 South Beaudry Avenue, Floor 21
Los Angeles, CA 90017

RESULTS OF SOIL SAMPLING AT LORENA STREET ELEMENTARY SCHOOL, 1015 LORENA STREET, LOS ANGELES, CALIFORNIA 90023; EXPANDED AREA SCHOOL SCH-07

Dear Mr. Laughton,

Enclosed with this letter are the results of the soil sampling conducted at the Lorena Street Elementary School (Expanded Area School - SCH-07) located at 1015 South Lorena Street, Los Angeles, California (Property). Avocet Environmental, Incorporated (Avocet) conducted that soil sampling on July 6, 2015 in accordance with the DTSC-approved sampling work plan dated July 26, 2014.[1] The results of the July 6, 2015 sampling are enclosed.

Laboratory analysis of a five-part composite soil sample collected from four depths below ground surface (0-1", 1-3", 3-6"; 6-12", and 12-18"), detected lead at concentrations of 81.7 parts per million (ppm), 87.3 ppm, 81.5 ppm, 66.4, and 17.1 ppm, respectively. In accordance with the approved work plan, since the three surface composite soil samples (SCH-07-01, SCH-07-03, and SCH-07-06) exceeded the *residential screening level* of 80 ppm, 15 discrete samples collected at the 0-1", 1-3", and 3-6" depth interval were analyzed for lead separately. Nine (9) of the 15 discrete surface samples collected at three locations had lead concentrations below 80 ppm; six of the samples had concentrations of lead ranging from 158 to 219 at locations 2D and 3D (see enclosed Avocet report).

In 2009, DTSC adopted the California Environmental Protection Agency Office of Environmental Health Hazard Assessment's (OEHHA) residential soil screening level of 80 ppm for lead. The residential screening level was derived using the modeling spreadsheet "Leadspread," which at 80 ppm predicted an increase in blood lead of 1 microgram per deciliter (ug/dL) at the 90th percentile for a population of children exposed to lead in soils at their home, and a subsequent decrease of one IQ point in the children. However, if the frequency of exposure is adjusted from seven days a week to

[1] Advanced GeoServices Corporation; *"Addendum to the November 15, 2013 Work Plan for Off-site Soil Sampling"*; July 26, 2014.

five days a week (a typical school week), the concentration of lead increases to 110 ppm for a child.

DTSC's Human Health and Ecological Risk Office has reviewed the data and has made recommendations based on the information discussed above and consideration of site-specific parameters in the enclosed memorandum dated June 27, 2016. Since some of these concentrations were above the screening level for a school child (110 mg/kg); DTSC believes that further sampling to delineate the extent of the contamination and to obtain a more robust dataset is warranted.

If you have any questions regarding this letter, please contact me at (916) 255-3630 or at Peter.Ruttan@dtsc.ca.gov.

Sincerely,

Peter Ruttan
Project Manager
Legacy Landfills Office

Enclosures (2)

cc: (via email)
Mr. Pat Schanen, LAUSD
Mr. Bill Piazza, LAUSD

Department of Toxic Substances Control

Mathew Rodriguez
Secretary for
Environmental Protection

Barbara Lee
Director
5796 Corporate Avenue
Cypress, California 90630

Edmund G. Brown Jr.
Governor

TO: Peter Ruttan, P.G.
Project Manager
Department of Toxic Substances Control
Sacramento, California

FROM: Shukla Roy-Semmen, Ph.D.
Staff Toxicologist
Human and Ecological Risk Office

DATE: June 27, 2016

SUBJECT: Review of soils data collected from Lorena Street Elementary School, located in the vicinity of the former Exide secondary smelter in Vernon, California.

PCA: 11006 Site Code: 900291-00

At the request of the program, the Human and Ecological Risk Office (HERO) reviewed soils data collected from the elementary school called Lorena Street School located on 1015 South Lorena Street, Los Angeles, California. The data were presented in "Attachment 1, July 2015 Soil Sampling Field Activities Report, Los Angeles Unified School District Schools, July 31, 2015". The report was prepared for Exide Technologies, by Advanced GeoServices and Avocet, and is dated July 30, 2015. Lorena Street school was one of eleven (11) schools evaluated for lead contamination as part of environmental investigations conducted for the secondary lead smelter, Exide Technologies, located in Vernon California.

Five soil samples from five locations (SCH-07-1D to SCH-07-5D) were collected from five depths (0-1", 1-3", 3-6", 6-12" and 12-18") below ground surface (bgs) at each location, and composited by depth to obtain five composite samples. These composite samples were analyzed for lead and three of the composite samples were found to slightly exceed the residential screening level of 80 ppm: 81.7 ppm @0-1", 87.3 ppm @ 1-3" and 81.5 ppm @ 3-6". To further investigate the source of these elevated levels, the discrete soils samples collected from these three depths were analyzed for lead. Lead concentrations at two locations (SCH07-2D and SCH-07-3D) were significantly above 80 ppm at the three re-sampled depths (213 ppm, 219 ppm and 217 ppm at SCH07-2D 0-1", SCH07-2D 1-3" and SCH07-2D 3-6"; and 170 ppm, 158 ppm and 171

ppm @ SCH07-3D 0-1", SCH07-3D 1-3" and SCH07-3D 3-6"). These levels are higher than a soil screening level of 110 mg/kg, that was derived for a school child who attends the school five days a week, each year.

A review of the figure provided in the report indicates that the Lorena Street School is largely paved with soils accessible for sampling present only in planter and grassy areas. The locations with higher lead levels (SCH07-2D and SCH07-3D) were present in the grassy area on the left side of the school. Since some of these concentrations were significantly above the screening level for a school child (110 mg/kg) and are concentrated within the two sampling locations, HERO recommends further sampling (to delineate the extent of the contamination) to determine whether further action is necessary. At least 8 samples should be collected to allow for statistical analysis of the soils dataset. Alternatively, a site-specific assessment can be presented for DTSC's review.

HERO notes that the decisions made in this document are site specific and should not be construed as a policy decision applicable to other sites. If you have additional questions please feel free to contact me at (714) 484-5448 or SRoysemm@dtsc.ca.gov.

Reviewed by: Jim Polisini, Ph.D.
Supervising Toxicologist
Human and Ecological Risk Office

For J.P.

ATTACHMENT 1

July 2015 Soil Sampling Field Activities Report
Los Angeles Unified School District Schools

July 31, 2015

ADVANCED GeoServices
Engineering for the Environment, Planning for People
1055 Andrew Drive, Suite A, West Chester, PA 19380-4293
tel 610.840.9100 fax 610.840.9199
www.advancedgeoservices.com

July 31, 2015 2013-3007-09

Pat Schanen, Environmental Health Manager
Office of Environmental Health and Safety
Los Angeles Unified School District
333 South Beaudry Avenue, 28th Floor
Los Angeles, CA 90017

RE: Revised Report on LAUSD K-12 School Sampling
Select Areas of Maywood, Huntington Park and Los Angeles, California

Dear Mr. Schanen:

Enclosed is a revised report on the school sampling that Advanced GeoServices performed on behalf of Exide Technologies. The comments that you provided on the report dated July 23 have been incorporated, and a revised table and report is attached. This report is also being provided to the California Department of Toxic Substances Control.

If you have any further questions, please contact me at 610-840-9145 or by email at bforslund@advancedgeoservices.com.

Respectfully submitted,

ADVANCED GEOSERVICES CORP.

Barbara L. Forslund
Consultant

BLF:vm

cc: Peter Ruttan, DTSC
Eileen Ma, LAUSD
Jay Golida, LAUSD
Paul Straman, Advanced GeoServices
Fred Ganster, Exide
John Hogart, Exide
Tom Strang, Exide
Randy Visser, Sheppard Mullin

EXIDE VERNON
2014 - 2015 Residential Soil Sampling
Lead Results

Sample Location(s): SCH-06 through SCH 10
Sample Date: 7/6/2015

Sample Depth	SCH-06	SCH-07	SCH-08	SCH-09	SCH-10
0-1"	29.2	81.7	52.7	68.6	11
1-3"	17	87.3	37.9	70.1	13.8
3-6"	17.6	81.5	47.6	112	13.1
6-12"	43.6	66.4	75.6	52.6	16.2
12-18"	13.6	17.1	25.8	29.9	10.2

Samples are composites
All lead results reported in mg/kg

Sample Location(s): SCH-11 through SCH 16
Sample Date: 7/7/2015

Sample Depth	SCH-11	SCH-12	SCH-13	SCH-14	SCH-15	SCH-16
0-1"	155	12.4	88.1	31.3	43.1	39.5
1-3"	207	19	74.8	19.4	52.2	42.1
3-6"	44.6	28	70.4	17.7	33.4	70.7
6-12"	43.6	27.1	45.3	16.5	23.5	48
12-18"	15.6	12.7	22.1	19.4	16.6	18.4

Samples are composites
All lead results reported in mg/kg

NOTE: Sample locations SCH-01 through SCH-05 are at private schools not owned by LAUSD

AVOCET
ENVIRONMENTAL, INC.

July 30, 2015 Project No. 1325.007

Ms. Barbara Forslund, P.E.
ADVANCED GEOSERVICES CORP.
1055 Andrew Drive, Suite A
West Chester, Pennsylvania 19380

July 2015 Soil Sampling Field Activities Report
Los Angeles Unified School District Schools
Los Angeles County, California

Dear Ms. Forslund:

This letter report documents the soil sampling procedures at 11 Los Angeles Unified School District (LAUSD) schools on July 6 and 7, 2015. The work described herein was performed in association with the Exide Technologies offsite subsurface soil sampling program, which has analyzed lead concentrations on private and public properties throughout many parts of East Los Angeles, Maywood, Huntington Park, and the surrounding communities. Specifics regarding the names and addresses of the individual schools, among other details, are summarized in Table 1. A site vicinity map identifying the locations of the schools is included as Figure 1.

REGULATORY OVERSIGHT

Access to the school properties was made possible by Mr. Bill Piazza, LAUSD's environmental assessment coordinator. Mr. Piazza also managed interactions with school personnel and provided general site supervision on behalf of the LAUSD. Regulatory oversight and public relations were provided by Mr. Peter Ruttan of the California Department of Toxic Substances Control (DTSC). Mr. Piazza and Mr. Ruttan observed the sampling crew at each school to verify the suitability of sample locations and to ensure proper sampling protocol in accordance with Advanced GeoServices Corp.'s (AGC's) November 15, 2013 Work Plan and its July 26, 2014 Addendum.

FIELD METHODS

Avocet was retained by AGC to complete a composite soil sampling program that involved the collection of discrete soil samples from the approximate depths of 1, 3, 6, 12, and 18 inches below ground surface (bgs) at five unique boring locations at each school. For every school, five composite samples, one from each depth interval, were prepared and submitted for chemical analysis. The samples were collected from grassy play areas, sports fields, or other common areas where students are likely to come into contact with exposed soil. For properties with limited exposed soil or where the playground is predominantly asphalt, samples were collected inside of tree wells. The approximate locations of the soil samples collected at each of the schools are illustrated in Figures 2 through 12.

1 Technology Drive, Suite C515 ▪ Irvine, California 92618-5302
Phone 949-296-0977 ▪ Fax 949-296-0978
www.avocetenv.com

Representative soil samples were collected at depth using either a freshly decontaminated trowel or hand auger. The soil was transferred directly into plastic bags that were then sealed and labeled as discrete samples with the sample identification code, date, and the time at which the sample was collected. Each shallow boring was backfilled upon completion with soil cuttings, tamped for light compaction, and topped with planting soil to match grade. Sampling tools were decontaminated between each boring by washing with laboratory-grade, phosphate-free detergent and then rinsed using deionized water. Fresh nitrile gloves were donned by field personnel between each boring and as necessary to prevent cross-contamination between soil samples.

The composite samples submitted for laboratory analysis were collected by measuring equal volumes of soil from each of the five discrete soil samples collected at a given depth throughout the school and then combined and thoroughly mixed in a sealed plastic bag. An aliquot of the mixed composite sample was then transferred into a sterile plastic bag that was sealed, labeled, placed in a cooler, and delivered to the analytical laboratory that same day. In all, five composite samples were collected from each school for laboratory testing, one for each depth interval listed above.

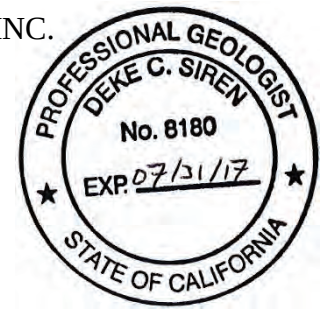
The composite soil samples were submitted, under appropriate chain-of-custody procedures, to Eurofins Calscience, a certified environmental laboratory located in Garden Grove, California, for analysis for lead using U.S. Environmental Protection Agency (EPA) Method 6010B. The remaining discrete soil samples were placed in a labeled container at Exide pending possible future analysis.

In addition to the soil samples, two equipment blank samples, one at the end of each work day, were collected by capturing analytical laboratory-provided water poured across a previously decontaminated hand trowel. The equipment blank samples were also analyzed for lead using EPA Method 6010B.

It should be noted that one discrete sample from the 18-inch depth interval (Location 5D) at Eastman Avenue Elementary School could not be collected due to tree roots. Therefore, the composite sample from the 18-inch depth interval (SCH-11-18) is comprised of equal volumes of soil from four rather than five discrete sample locations.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.



Deke Siren, P.G.
Project Manager

DCS:sh
Attachments

P:\1325 AGC-Exide_Vernon\007_Offsite Soil Sampling\LAUSD Sch Sites\SupportingDocs\LAUSD Sampling Procedures_2015-07-30.docx

Tables

AVOCET
ENVIRONMENTAL, INC.

Table 1
List of LAUSD Schools Sampled
Los Angeles County, California

School ID (for sampling purposes)	**School Name**	**Address**	**Date Sampled**	**Number of Samples**
SCH-06	Oscar De La Hoya Animo High School	1114 South Lorena Street Los Angeles, CA 90023	07/06/15	5
SCH-07	Lorena Street School	1015 South Lorena Street Los Angeles, CA 90023	07/06/15	5
SCH-08	Robert Louis Stevenson Middle School	725 South Indiana Street Los Angeles, CA 90023	07/06/15	5
SCH-09	Rowan Avenue School	600 South Rowan Avenue Los Angeles, CA 90023	07/06/15	5
SCH-10	Amanecer Primary Center	832 South Eastman Avenue Los Angeles, CA 90023	07/06/15	5
SCH-11	Eastman Avenue School	4112 East Olympic Boulevard Los Angeles, CA 90023	07/07/15	5
SCH-12	Maywood School	5200 Cudahy Avenue Maywood, CA 90270	07/07/15	5
SCH-13	Fishburn Avenue Middle School and Clemente Charter	5701 Fishburn Avenue Maywood, CA 90270	07/07/15	5
SCH-14	Huntington Park School	6055 Corona Avenue Huntington Park, CA 90255	07/07/15	5
SCH-15	Chester W. Nimitz Middle School	6021 Carmelita Avenue Huntington Park, CA 90255	07/07/15	5
SCH-16	Loma Vista	3629 East 58th Street Maywood, CA 90270	07/07/15	5

Note: School IDs SCH-01 through SCH-05 are for schools not owned by LAUSD

Figures

AVOCET
ENVIRONMENTAL, INC.

S:\GIS\1325 Exide AGC\1325.007 SCHOOLS\ArcGIS\Aerial Map.mxd\7/30/2015

ROBERT LOUIS STEVENSON MIDDLE SCHOOL (SCH-08)

ROWAN AVENUE ELEMENTARY SCHOOL (SCH-09)

LORENA STREET ELEMENTARY SCHOOL (SCH-07)

AMANACER PRIMARY CENTER (SCH-10)

OSCAR DE LA HOYA AMINO HIGH SCHOOL (SCH-06)

EASTMAN AVENUE ELEMENTARY SCHOOL (SCH-11)

EXIDE FACILITY

MAYWOOD ELEMENTARY SCHOOL (SCH-12)

LOMA VISTA ELEMENTARY SCHOOL (SCH-16)

FISHBURN AVENUE MIDDLE SCHOOL AND CLEMENTE CHARTER SCHOOL (SCH-13)

CHESTER W. NIMITZ MIDDLE SCHOOL (SCH-15)

HUNTINGTON PARK ELEMENTARY SCHOOL (SCH-14)

Calvary Cemetary
Home of Peace Memorial Park
Bristow Park
BNSF-Los Angeles Intermodal
Up-Los Angeles
Los Angeles River
Huntington Park
Hall USARC

N

EXPLANATION

- School Location
- Exide Property

0 1,250 2,500 5,000 FEET

FIGURE 1

LOS ANGELES UNIFIED SCHOOL DISTRICT SITE VICINITY MAP

EXIDE TECHNOLOGIES
2700 SOUTH INDIANA STREET
VERNON, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

S:\GIS\1325 Exide AGC\1325.007 SCHOOLS\ArcGIS\OscarDeLaHoya.mxd\7/23/2015

N

EXPLANATION

Sample Location

68' Distance in Feet

NOTE:
FIGURE NOT TO SCALE

FIGURE 2

OSCAR DE LA HOYA
AMINO CHARTER SCHOOL

EXIDE TECHNOLOGIES
2700 SOUTH INDIANA STREET
VERNON, CALIFORNIA

AVOCET
ENVIRONMENTAL, INC.

S:\GIS\1325 Exide AGC\1325.007 SCHOOLS\ArcGIS\LorenaStreet.mxd\7/23/2015

N

EXPLANATION

Sample Location

68' Distance in Feet

NOTE:
FIGURE NOT TO SCALE

FIGURE 3

LORENA STREET SCHOOL

EXIDE TECHNOLOGIES
2700 SOUTH INDIANA STREET
VERNON, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

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N

EXPLANATION

Sample Location

68' Distance in Feet

NOTE:
FIGURE NOT TO SCALE

FIGURE 4

ROBERT LOUIS STEVENSON MIDDLE SCHOOL

EXIDE TECHNOLOGIES
2700 SOUTH INDIANA STREET
VERNON, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

S:\GIS\1325 Exide AGC\1325.007 SCHOOLS\ArcGIS\RowanAve.mxd\7/23/2015

N

EXPLANATION

Sample Location

68' Distance in Feet

NOTE:
FIGURE NOT TO SCALE

FIGURE 5

ROWAN AVENUE SCHOOL

EXIDE TECHNOLOGIES
2700 SOUTH INDIANA STREET
VERNON, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

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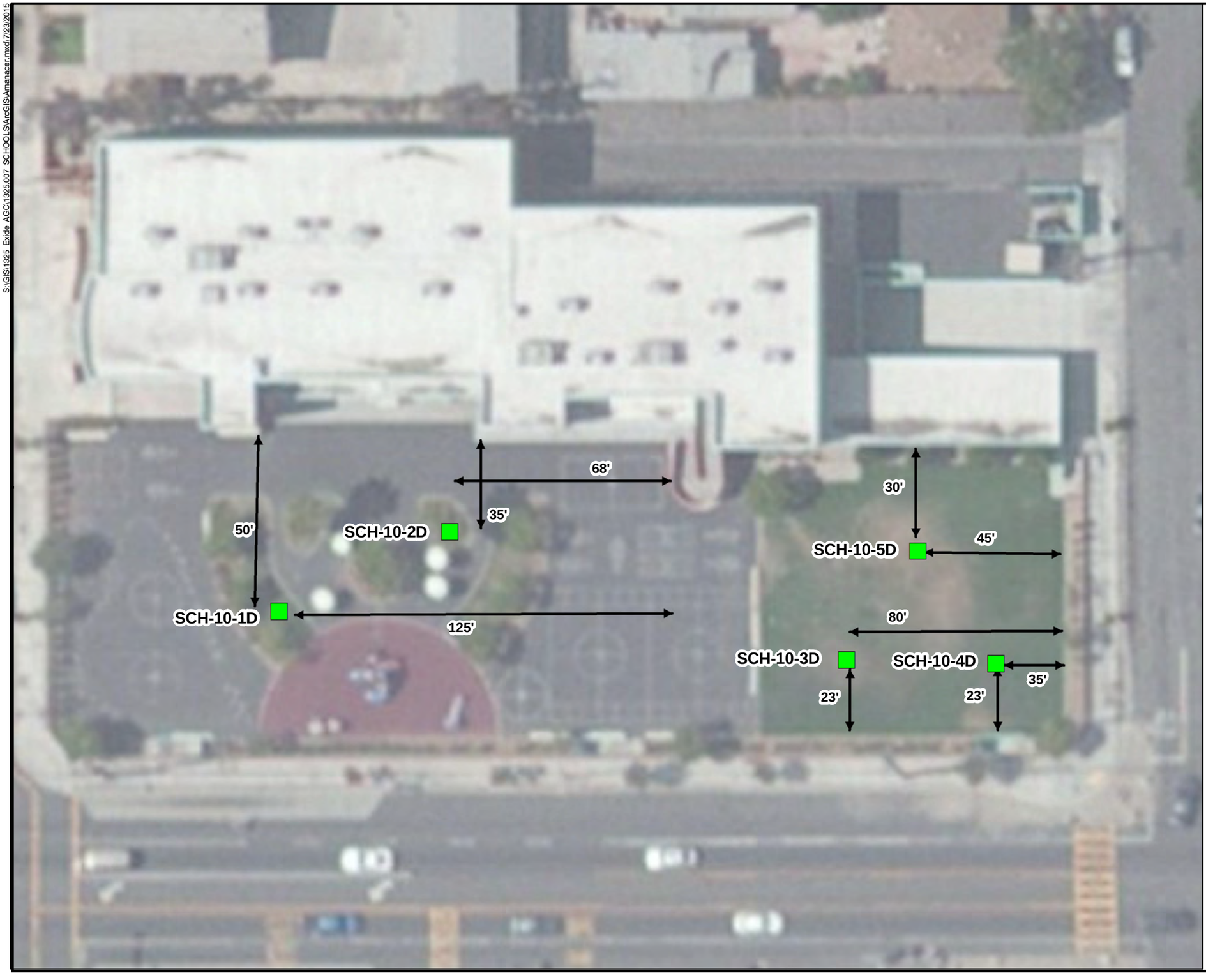

N

EXPLANATION

Sample Location

Distance in Feet

NOTE:
FIGURE NOT TO SCALE

FIGURE 6

AMANACER PRIMARY SCHOOL

EXIDE TECHNOLOGIES
2700 SOUTH INDIANA STREET
VERNON, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

S:\GIS\1325 Exide AGC\1325.007 SCHOOLS\ArcGIS\Eastman.mxd\7/23/2015

N

EXPLANATION

Sample Location

68' Distance in Feet

NOTE:
FIGURE NOT TO SCALE

FIGURE 7

EASTMAN AVENUE ELEMENTARY SCHOOL

EXIDE TECHNOLOGIES
2700 SOUTH INDIANA STREET
VERNON, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

S:\GIS\1325_Exide_AGC\1325.007_SCHOOLS\ArcGIS\Maywood.mxd 7/23/2015

N

EXPLANATION

Sample Location

68' Distance in Feet

NOTE:
FIGURE NOT TO SCALE

FIGURE 8

MAYWOOD ELEMENTARY

EXIDE TECHNOLOGIES
2700 SOUTH INDIANA STREET
VERNON, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

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N

EXPLANATION

Sample Location

68' Distance in Feet

NOTE:
FIGURE NOT TO SCALE

FIGURE 9

FISHBURN AVENUE MIDDLE SCHOOL AND CLEMENTE CHARTER SCHOOL

EXIDE TECHNOLOGIES
2700 SOUTH INDIANA STREET
VERNON, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

S:\GIS\1325 Exide AGC\1325.007 SCHOOLS\ArcGIS\HuntingtonPark.mxd\7/23/2015

N

EXPLANATION

Sample Location

68' Distance in Feet

NOTE:
FIGURE NOT TO SCALE

FIGURE 10

HUNTINGTON PARK ELEMENTARY SCHOOL

EXIDE TECHNOLOGIES
2700 SOUTH INDIANA STREET
VERNON, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

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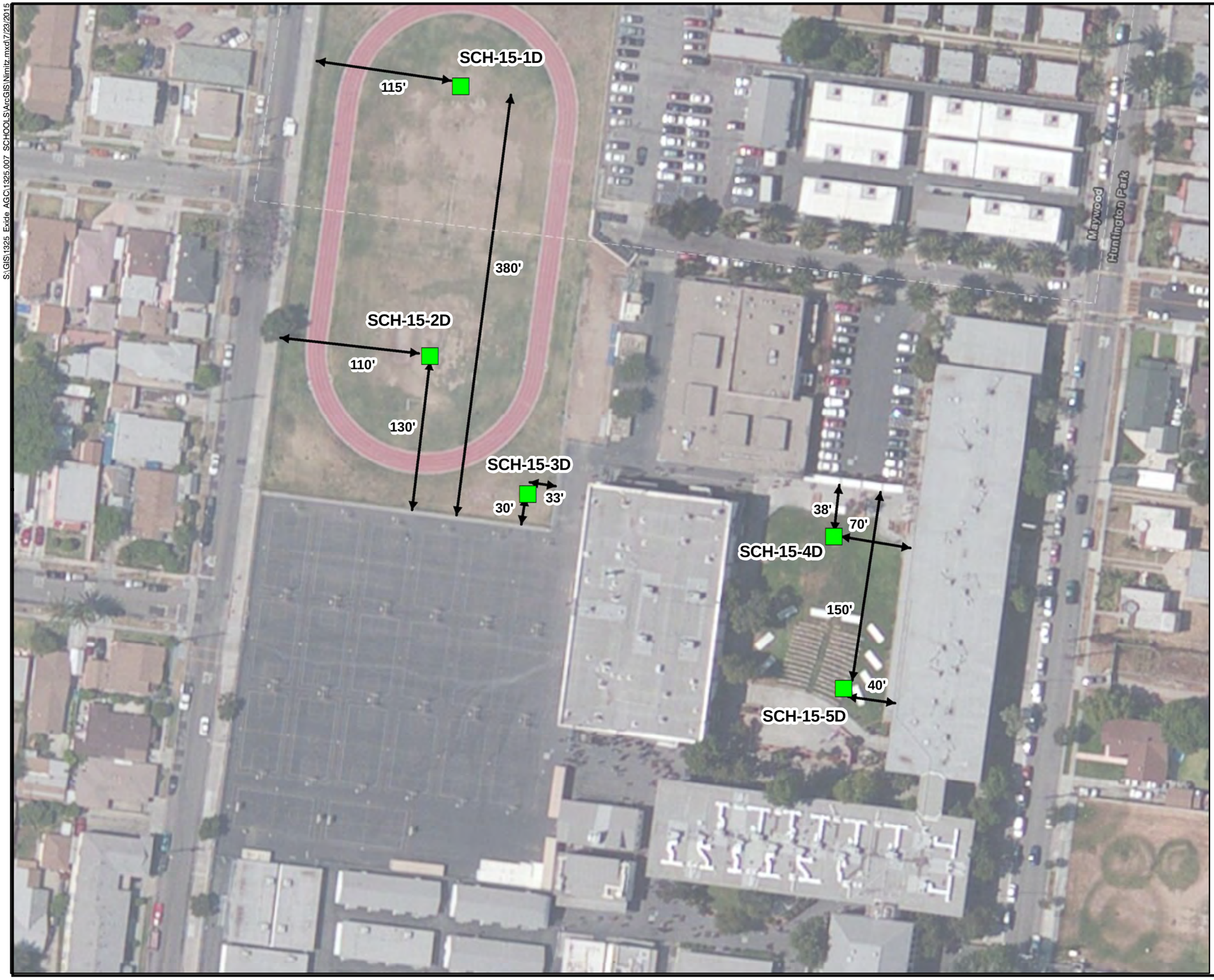

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EXPLANATION

Sample Location

68' Distance in Feet

NOTE:
FIGURE NOT TO SCALE

FIGURE 11

CHESTER W. NIMITZ MIDDLE SCHOOL

EXIDE TECHNOLOGIES
2700 SOUTH INDIANA STREET
VERNON, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

S:\GIS\1325 Exide AGC\1325.007 SCHOOLS\ArcGIS\LomaVista.mxd 7/23/2015

N

EXPLANATION

Sample Location

68' Distance in Feet

NOTE:
FIGURE NOT TO SCALE

FIGURE 12

LOMA VISTA ELEMENTARY SCHOOL

EXIDE TECHNOLOGIES
2700 SOUTH INDIANA STREET
VERNON, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

eurofins | Calscience

WORK ORDER NUMBER: 15-07-0228

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Advanced GeoServices Corporation

Client Project Name: Exide Vernon Offsite / 2013-3007-09

Attention: Adam Doubleday
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Amanda Porter

Approved for release on 07/20/2015 by:
Amanda Porter
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

eurofins | Calscience

Contents

Client Project Name: Exide Vernon Offsite / 2013-3007-09
Work Order Number: 15-07-0228

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Work Order Narrative

Work Order: 15-07-0228 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/06/15. They were assigned to Work Order 15-07-0228.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 07/06/15
Work Order: 15-07-0228
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-06-01	**15-07-0228-1-A**	**07/06/15 08:40**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:42**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	29.2	0.478	0.957	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-06-03	**15-07-0228-2-A**	**07/06/15 08:43**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:45**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	17.0	0.481	0.962	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-06-06	**15-07-0228-3-A**	**07/06/15 08:46**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:45**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	17.6	0.521	1.04	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-06-12	**15-07-0228-4-A**	**07/06/15 08:49**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:46**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	43.6	0.483	0.966	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-06-18	**15-07-0228-5-A**	**07/06/15 08:52**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:47**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	13.6	0.493	0.985	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-01	**15-07-0228-6-A**	**07/06/15 09:50**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:48**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	81.7	0.500	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-03	**15-07-0228-7-A**	**07/06/15 09:53**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:48**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	87.3	0.518	1.04	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-06	**15-07-0228-8-A**	**07/06/15 09:56**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:49**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	81.5	0.498	0.995	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 07/06/15
Work Order: 15-07-0228
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-12	**15-07-0228-9-A**	**07/06/15 09:58**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:50**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	66.4	0.505	1.01	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-18	**15-07-0228-10-A**	**07/06/15 10:05**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:50**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	17.1	0.510	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-08-01	**15-07-0228-11-A**	**07/06/15 11:00**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:51**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	52.7	0.483	0.966	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-08-03	**15-07-0228-12-A**	**07/06/15 11:04**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:54**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	37.9	0.515	1.03	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-08-06	**15-07-0228-13-A**	**07/06/15 11:08**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:55**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	47.6	0.508	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-08-12	**15-07-0228-14-A**	**07/06/15 11:12**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:55**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	75.6	0.521	1.04	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-08-18	**15-07-0228-15-A**	**07/06/15 11:16**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:56**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	25.8	0.524	1.05	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-09-01	**15-07-0228-16-A**	**07/06/15 13:10**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:57**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	68.6	0.510	1.02	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 07/06/15
Work Order: 15-07-0228
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09 Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-09-03	**15-07-0228-17-A**	**07/06/15 13:14**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:57**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	70.1	0.500	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-09-06	**15-07-0228-18-A**	**07/06/15 13:18**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:58**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	112	0.500	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-09-12	**15-07-0228-19-A**	**07/06/15 13:22**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:59**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	52.6	0.510	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-09-18	**15-07-0228-20-A**	**07/06/15 13:26**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:59**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	29.9	0.521	1.04	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-10-01	**15-07-0228-21-A**	**07/06/15 14:25**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 01:00**	**150708L04**

Parameter	Result	RL	DF	Qualifiers
Lead	11.0	0.485	0.971	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-10-03	**15-07-0228-22-A**	**07/06/15 14:28**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 18:14**	**150708L04**

Parameter	Result	RL	DF	Qualifiers
Lead	13.8	0.493	0.985	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-10-06	**15-07-0228-23-A**	**07/06/15 14:32**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 18:16**	**150708L04**

Parameter	Result	RL	DF	Qualifiers
Lead	13.1	0.478	0.957	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-10-12	**15-07-0228-24-A**	**07/06/15 14:35**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 18:18**	**150708L04**

Parameter	Result	RL	DF	Qualifiers
Lead	16.2	0.498	0.995	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 07/06/15
Work Order: 15-07-0228
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-10-18	**15-07-0228-25-A**	**07/06/15 14:40**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 17:11**	**150708L04**

Parameter	Result	RL	DF	Qualifiers
Lead	10.2	0.495	0.990	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-21388**	**N/A**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 13:10**	**150708L03**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.505	1.01	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-21380**	**N/A**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 17:04**	**150708L04**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.500	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Advanced GeoServices Corporation		Date Received:	07/06/15
1055 Andrew Drive, Suite A		Work Order:	15-07-0228
West Chester, PA 19380-4293		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Exide Vernon Offsite / 2013-3007-09			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SCH-06-01	**Sample**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:42**	**150708S03**
SCH-06-01	**Matrix Spike**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:41**	**150708S03**
SCH-06-01	**Matrix Spike Duplicate**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:41**	**150708S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	29.24	25.00	48.12	75	46.04	67	75-125	4	0-20	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Advanced GeoServices Corporation		Date Received:	07/06/15
1055 Andrew Drive, Suite A		Work Order:	15-07-0228
West Chester, PA 19380-4293		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Exide Vernon Offsite / 2013-3007-09			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SCH-10-18	**Sample**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 17:11**	**150708S04**
SCH-10-18	**Matrix Spike**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 17:08**	**150708S04**
SCH-10-18	**Matrix Spike Duplicate**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 17:09**	**150708S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	10.23	25.00	35.37	101	37.18	108	75-125	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Advanced GeoServices Corporation		Date Received:	07/06/15
1055 Andrew Drive, Suite A		Work Order:	15-07-0228
West Chester, PA 19380-4293		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Exide Vernon Offsite / 2013-3007-09			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-21388	**LCS**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 13:13**	**150708L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Lead	25.00	24.85	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Advanced GeoServices Corporation		Date Received:	07/06/15
1055 Andrew Drive, Suite A		Work Order:	15-07-0228
West Chester, PA 19380-4293		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Exide Vernon Offsite / 2013-3007-09			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-21380	**LCS**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 17:06**	**150708L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Lead	25.00	25.94	104	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-07-0228 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	771	ICP 7300	1

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Glossary of Terms and Qualifiers

Work Order: 15-07-0228 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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1055 Andrew Dr. Suite A
West Chester, PA 19380
tel 610.840.9100

ADVANCED GEOSERVICES CORP.
CHAIN OF CUSTODY

15-07-0228

Project Name: Exide Vernon Offsite
AGC Contact: Adam Doubleday
Lab Name/Location: Calscience, Garden Grove, CA
Turnaround Time (circle one) (Standard) 5-Day 72-Hour 24-Hour

Project # 2013-3007-09
Shipment #
Shipment Tracking # ~~courier~~ pick-up Drop off
Deliverables (circle one) Results only (Results/QC summary) CLP-Like

Lab Use Only	Sample ID	Date	Time	Sample Type (C or G)	Matrix	Field Filtered	# of Containers	ANALYSIS: LEAD 6010	ANALYSIS: #60 SEIVE	ANALYSIS	ANALYSIS	Preservatives	REMARKS
1	SCN-06-01	07/06/15	0840	C	S		1	X					
2	SCN-06-03	"	0843	C	S		1	X					
3	SCN-06-06		0846	C	S		1	X					
4	SCN-06-12		0849	C	S		1	X					
5	SCN-06-18		0852	C	S		1	X					
6	SCN-07-01		0950	C	S		1	X					
7	SCN-07-03		0953	C	S		1	X					
8	SCN-07-06		0956	C	S		1	X					
9	SCN-07-12		0958	C	S		1	X					
10	SCN-07-18		1003	C	S		1	X					
11	SCN-08-01		11:00	C	S		1	X					
12	SCN-08-03		1104	C	S		1	X					
13	SCN-08-06		1108	C	S		1	X					
14	SCN-08-12		11:12	C	S		1	X					
15	SCN-08-18		11:16	C	S		1	X					
16	SCN-09-01		13:10	C	S		1	X					
17	SCN-09-03		13:14	C	S		1	X					
18	SCN-09-06		13:18	C	S		1	X					
19	SCN-09-12		13:22	C	S		1	X					
20	SCN-09-18	↓	13:26	C	S		1	X					

Relinquished By: _____ Received By: _____ Date/Time: 15:32 07/06/2015
Relinquished By: _____ Received By: _____ Date/Time: _____
Relinquished By: _____ Received By: _____ Date/Time: _____

Preservative: 1-ice, 2- H_2SO_4, 3-HCl, 4-HNO_3, 5-NaOH, 6-ZnOAC Remarks: EZ - Exclusion Zone
Sample Matrix: SW - Surface Water, GW - Groundwater, Sed - Sediment, S - Soil, Sld - Sludge, A - Air
P:\1325 AGC-Exide_Vernon\007_Offsite Soil Sampling\P

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1055 Andrew Dr. Suite A
West Chester, PA 19380
tel 610.840.9100

ADVANCED GEOSERVICES CORP.
CHAIN OF CUSTODY

0228

Project Name: Exide Vernon Offsite
AGC Contact: Adam Doubleday
Lab Name/Location: Calscience, Garden Grove, CA
Turnaround Time (circle one) (Standard) 5-Day 72-Hour 24-Hour

Project # 2013-3007-09
Shipment #
Shipment Tracking # courier ~~pick-up~~ Drop off
Deliverables (circle one) Results only (Results/QC summary) CLP-Like

Lab Use Only	Sample ID	Date	Time	Sample Type (C or G)	Matrix	Field Filtered	# of Containers	ANALYSIS: LEAD 6010	ANALYSIS: #60 SEIVE	ANALYSIS	ANALYSIS	Preservatives	REMARKS
21	SCN-10-01	07/06/15	14:25	C	S		1	X					
22	SCN-10-03	"	14:28	C	S		1	X					
23	SCN-10-06	"	14:30	C	S		1	X					
24	SCN-10-12	"	14:35	C	S		1	X					
25	SCN-10-18	"	14:40	C	S		1	X					

Relinquished By: _____ Received By: _____ Date/Time: 15:32 07/06/2015
Relinquished By: _____ Received By: _____ Date/Time: _____
Relinquished By: _____ Received By: _____ Date/Time: _____

Preservative: 1-ice, 2- H_2SO_4, 3-HCl, 4-HNO_3, 5-NaOH, 6-ZnOAC Remarks: EZ - Exclusion Zone
Sample Matrix: SW - Surface Water, GW - Groundwater, Sed - Sediment, S - Soil, Sld - Sludge, A - Air
P:\1325 AGC-Exide_Vernon\007_Offsite Soil Sampling\P

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WORK ORDER NUMBER: 15-07- 0228

SAMPLE RECEIPT CHECKLIST

COOLER 0 **OF** 0

CLIENT: Exide

DATE: 07 / 6 **/ 2015**

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 24.9 °C (w/ CF): 24.7 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: ________)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: 836

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☐ Not Present	☑ N/A	Checked by: 836
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☐	☐	☑
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☒ 7/6/15	☑	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: **(Trip Blank Lot Number: ________________)**

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna$_2$ ☐ 100PJ ☐ 100PJna$_2$ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs ☐ 500PB ☐ 1AGB ☐ 1AGBna$_2$ ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ ________ ☐ ________ ☐ ________ ☐ ________

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☑ Z

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ ________ **Other Matrix** (____________): ☐ ________ ☐ ________

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: [illegible]

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WORK ORDER NUMBER: 15-07-0294

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Advanced GeoServices Corporation

Client Project Name: Exide Vernon Offsite / 2013-3007-09

Attention: Adam Doubleday
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Amanda Porter

Approved for release on 07/21/2015 by:
Amanda Porter
Project Manager

ResultLink

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Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Contents

Client Project Name: Exide Vernon Offsite / 2013-3007-09
Work Order Number: 15-07-0294

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Work Order Narrative

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/07/15. They were assigned to Work Order 15-07-0294.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Sieved samples were processed using #60 sieve prior to analysis.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 07/07/15
Work Order: 15-07-0294
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-01	**15-07-0294-1-A**	**07/07/15 09:00**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:29**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	155	0.500	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-03	**15-07-0294-2-A**	**07/07/15 09:03**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:30**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	207	0.508	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-06	**15-07-0294-3-A**	**07/07/15 09:06**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:32**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	44.6	0.524	1.05	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-12	**15-07-0294-4-A**	**07/07/15 09:09**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:33**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	43.6	0.515	1.03	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-18	**15-07-0294-5-A**	**07/07/15 09:12**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:35**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	15.6	0.513	1.03	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-12-01	**15-07-0294-6-A**	**07/07/15 10:20**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:36**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	12.4	0.508	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-12-03	**15-07-0294-7-A**	**07/07/15 10:25**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:41**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	19.0	0.493	0.985	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-12-06	**15-07-0294-8-A**	**07/07/15 10:30**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:43**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	28.0	0.526	1.05	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 07/07/15
Work Order: 15-07-0294
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-12-12	**15-07-0294-9-A**	**07/07/15 10:35**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:45**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	27.1	0.500	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-12-18	**15-07-0294-10-A**	**07/07/15 10:40**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:46**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	12.7	0.481	0.962	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-13-01	**15-07-0294-11-A**	**07/07/15 10:55**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:48**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	88.1	0.490	0.980	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-13-03	**15-07-0294-12-A**	**07/07/15 11:00**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:49**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	74.8	0.526	1.05	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-13-06	**15-07-0294-13-A**	**07/07/15 11:05**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:51**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	70.4	0.505	1.01	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-13-12	**15-07-0294-14-A**	**07/07/15 11:10**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:53**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	45.3	0.513	1.03	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-13-18	**15-07-0294-15-A**	**07/07/15 11:15**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:54**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	22.1	0.500	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-14-01	**15-07-0294-16-A**	**07/07/15 12:10**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:56**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	31.3	0.488	0.976	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 07/07/15
Work Order: 15-07-0294
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-14-03	**15-07-0294-17-A**	**07/07/15 12:14**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:01**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	19.4	0.493	0.985	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-14-06	**15-07-0294-18-A**	**07/07/15 12:18**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:03**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	17.7	0.513	1.03	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-14-12	**15-07-0294-19-A**	**07/07/15 12:22**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:04**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	16.5	0.505	1.01	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-14-18	**15-07-0294-20-A**	**07/07/15 12:26**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:06**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	19.4	0.518	1.04	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-15-01	**15-07-0294-21-A**	**07/07/15 13:45**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 22:21**	**150708L02**

Parameter	Result	RL	DF	Qualifiers
Lead	43.1	0.518	1.04	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-15-03	**15-07-0294-22-A**	**07/07/15 13:50**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:26**	**150708L02**

Parameter	Result	RL	DF	Qualifiers
Lead	52.2	0.495	0.990	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-15-06	**15-07-0294-23-A**	**07/07/15 13:55**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:26**	**150708L02**

Parameter	Result	RL	DF	Qualifiers
Lead	33.4	0.526	1.05	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-15-12	**15-07-0294-24-A**	**07/07/15 14:00**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:27**	**150708L02**

Parameter	Result	RL	DF	Qualifiers
Lead	23.5	0.524	1.05	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 07/07/15
Work Order: 15-07-0294
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-15-18	**15-07-0294-25-A**	**07/07/15 14:05**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:28**	**150708L02**

Parameter	Result	RL	DF	Qualifiers
Lead	16.6	0.524	1.05	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-16-01	**15-07-0294-26-A**	**07/07/15 14:45**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:28**	**150708L02**

Parameter	Result	RL	DF	Qualifiers
Lead	39.5	0.485	0.971	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-16-03	**15-07-0294-27-A**	**07/07/15 14:50**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:29**	**150708L02**

Parameter	Result	RL	DF	Qualifiers
Lead	42.1	0.495	0.990	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-16-06	**15-07-0294-28-A**	**07/07/15 14:55**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:30**	**150708L02**

Parameter	Result	RL	DF	Qualifiers
Lead	70.7	0.505	1.01	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-16-12	**15-07-0294-29-A**	**07/07/15 14:58**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:30**	**150708L02**

Parameter	Result	RL	DF	Qualifiers
Lead	48.0	0.485	0.971	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-16-18	**15-07-0294-30-A**	**07/07/15 15:03**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:31**	**150708L02**

Parameter	Result	RL	DF	Qualifiers
Lead	18.4	0.510	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-01 (sieve)	**15-07-0294-33-A**	**07/07/15 09:00**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:32**	**150708L02**

Comment(s): - The sample was sieved prior to preparation / analysis per client instructions. See case narrative for specific procedure.

Parameter	Result	RL	DF	Qualifiers
Lead	101	0.515	1.03	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 07/07/15
Work Order: 15-07-0294
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-18 (sieve)	**15-07-0294-34-A**	**07/07/15 09:12**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:35**	**150708L02**

Comment(s): - The sample was sieved prior to preparation / analysis per client instructions. See case narrative for specific procedure.

Parameter	Result	RL	DF	Qualifiers
Lead	15.4	0.478	0.957	

SCH-13-01 (sieve)	**15-07-0294-35-A**	**07/07/15 10:55**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:35**	**150708L02**

Comment(s): - The sample was sieved prior to preparation / analysis per client instructions. See case narrative for specific procedure.

Parameter	Result	RL	DF	Qualifiers
Lead	76.0	0.505	1.01	

SCH-14-01 (sieve)	**15-07-0294-36-A**	**07/07/15 12:10**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:36**	**150708L02**

Comment(s): - The sample was sieved prior to preparation / analysis per client instructions. See case narrative for specific procedure.

Parameter	Result	RL	DF	Qualifiers
Lead	24.2	0.500	1.00	

SCH-15-01 (sieve)	**15-07-0294-37-A**	**07/07/15 13:45**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:37**	**150708L02**

Comment(s): - The sample was sieved prior to preparation / analysis per client instructions. See case narrative for specific procedure.

Parameter	Result	RL	DF	Qualifiers
Lead	41.3	0.524	1.05	

SCH-16-01 (sieve)	**15-07-0294-38-A**	**07/07/15 14:45**	**Solid**	**ICP 7300**	**07/08/15**	**07/10/15 00:37**	**150708L02**

Comment(s): - The sample was sieved prior to preparation / analysis per client instructions. See case narrative for specific procedure.

Parameter	Result	RL	DF	Qualifiers
Lead	40.7	0.493	0.985	

Method Blank	**097-01-002-21384**	**N/A**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:22**	**150708L01**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.503	1.01	

Method Blank	**097-01-002-21383**	**N/A**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 22:01**	**150708L02**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.498	0.995	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Project: Exide Vernon Offsite / 2013-3007-09

Date Received: 07/07/15
Work Order: 15-07-0294
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-070615	**15-07-0294-31-A**	**07/06/15 15:45**	**Aqueous**	**ICP 7300**	**07/08/15**	**07/10/15 23:39**	**150708LA7**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.0100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-070715	**15-07-0294-32-A**	**07/07/15 16:30**	**Aqueous**	**ICP 7300**	**07/08/15**	**07/10/15 23:42**	**150708LA7**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.0100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-003-15195**	**N/A**	**Aqueous**	**ICP 7300**	**07/08/15**	**07/09/15 12:41**	**150708LA7**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.0100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Advanced GeoServices Corporation		Date Received:	07/07/15
1055 Andrew Drive, Suite A		Work Order:	15-07-0294
West Chester, PA 19380-4293		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Exide Vernon Offsite / 2013-3007-09			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SCH-11-01	**Sample**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:29**	**150708S01**
SCH-11-01	**Matrix Spike**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:25**	**150708S01**
SCH-11-01	**Matrix Spike Duplicate**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:27**	**150708S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	155.4	25.00	309.0	4X	197.4	4X	75-125	4X	0-20	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Advanced GeoServices Corporation		Date Received:	07/07/15
1055 Andrew Drive, Suite A		Work Order:	15-07-0294
West Chester, PA 19380-4293		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Exide Vernon Offsite / 2013-3007-09			Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SCH-15-01	**Sample**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 22:21**	**150708S02**
SCH-15-01	**Matrix Spike**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 22:17**	**150708S02**
SCH-15-01	**Matrix Spike Duplicate**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 22:19**	**150708S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	43.11	25.00	66.72	94	72.91	119	75-125	9	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Advanced GeoServices Corporation		Date Received:	07/07/15
1055 Andrew Drive, Suite A		Work Order:	15-07-0294
West Chester, PA 19380-4293		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
Project: Exide Vernon Offsite / 2013-3007-09			Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-07-0357-1	**Sample**	**Aqueous**	**ICP 7300**	**07/08/15**	**07/10/15 14:31**	**150708SA7**
15-07-0357-1	**Matrix Spike**	**Aqueous**	**ICP 7300**	**07/08/15**	**07/09/15 12:50**	**150708SA7**
15-07-0357-1	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**07/08/15**	**07/09/15 12:52**	**150708SA7**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	ND	0.5000	0.6132	123	0.5993	120	84-120	2	0-7	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Advanced GeoServices Corporation		Date Received:	07/07/15
1055 Andrew Drive, Suite A		Work Order:	15-07-0294
West Chester, PA 19380-4293		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Exide Vernon Offsite / 2013-3007-09			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-21384	**LCS**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 23:24**	**150708L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Lead	25.00	26.14	105	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Advanced GeoServices Corporation		Date Received:	07/07/15
1055 Andrew Drive, Suite A		Work Order:	15-07-0294
West Chester, PA 19380-4293		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Exide Vernon Offsite / 2013-3007-09			Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-21383	**LCS**	**Solid**	**ICP 7300**	**07/08/15**	**07/09/15 22:03**	**150708L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Lead	25.00	26.24	105	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Advanced GeoServices Corporation		Date Received:	07/07/15
1055 Andrew Drive, Suite A		Work Order:	15-07-0294
West Chester, PA 19380-4293		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
Project: Exide Vernon Offsite / 2013-3007-09			Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-003-15195	**LCS**	**Aqueous**	**ICP 7300**	**07/08/15**	**07/09/15 12:44**	**150708LA7**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Lead	0.5000	0.5527	111	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-07-0294 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3010A Total	771	ICP 7300	1
EPA 6010B	EPA 3050B	771	ICP 7300	1

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Glossary of Terms and Qualifiers

Work Order: 15-07-0294 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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1055 Andrew Dr. Suite A
West Chester, PA 19380
tel 610.840.9100

ADVANCED GEOSERVICES CORP.
CHAIN OF CUSTODY

15-07-0294

Project Name: Exide Vernon Offsite
AGC Contact: Adam Doubleday
Lab Name/Location: Calscience, Garden Grove, CA
Turnaround Time (circle one) (Standard) 5-Day 72-Hour 24-Hour

Project # 2013-3007-09
Shipment # 306 p I
Shipment Tracking # courier pick-up
Deliverables (circle one) Results only (Results/QC summary) CLP-Like

Lab Use Only	Sample ID	Date	Time	Sample Type (C or G)	Matrix	Field Filtered	# of Containers	ANALYSIS: LEAD 6010	ANALYSIS: #60 SEIVE	ANALYSIS	ANALYSIS	Preservatives	REMARKS
1	SCH-11-01	7-7-15	900	C	S	N	1	X	X				33
2	SCH-11-03		903										
3	SCH-11-06		906										
4	SCH-11-12		909										
5	SCH-11-18		912						X				Refusal - 4 point sample mt 34
6	SCH-12-01		1020										
7	SCH-12-03		1025										
8	SCH-12-06		1030										
9	SCH-12-12		1035										
10	SCH-12-18		1040										
11	SCH-13-01		1055						X				35
12	SCH-13-03		1100										
13	SCH-13-06		1105										
14	SCH-13-12		1110										
15	SCH-13-18		1115										
16	SCH-14-01		1210						X				36
17	SCH-14-03		1214										
18	SCH-14-06		1218										
19	SCH-14-12		1222										
20	SCH-14-18		1226										

Relinquished By: [signature] AGC Received By: [signature] CA Date/Time: 7/7/2015 16:30
Relinquished By:________ Received By:________ Date/Time:________
Relinquished By:________ Received By:________ Date/Time:________

Preservative: 1-ice, 2- H_2SO_4, 3-HCl, 4-HNO_3, 5-NaOH, 6-ZnOAC Remarks: EZ - Exclusion Zone
Sample Matrix: SW - Surface Water, GW - Groundwater, Sed - Sediment, S - Soil, Sld - Sludge, A - Air
P:\1325 AGC-Exide_Vernon\007_Offsite Soil Sampling\P

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1055 Andrew Dr. Suite A
West Chester, PA 19380
tel 610.840.9100

ADVANCED GEOSERVICES CORP.
CHAIN OF CUSTODY

~~3 of 3~~ 2 of 2

0294

Project Name: Exide Vernon Offsite
AGC Contact: Adam Doubleday
Lab Name/Location: Calscience, Garden Grove, CA
Turnaround Time (circle one) (Standard) 5-Day 72-Hour 24-Hour

Project # 2013-3007-09
Shipment #
Shipment Tracking # courier pick-up
Deliverables (circle one) Results only (Results/QC summary) CLP-Like

Lab Use Only	Sample ID	Date	Time	Sample Type (C or G)	Matrix	Field Filtered	# of Containers	ANALYSIS: LEAD 6010	ANALYSIS: #60 SEIVE	ANALYSIS	ANALYSIS	Preservatives	REMARKS
21	SCH-15-01	7-7-15	1345	C	S	N	1	X	X				37
22	SCH-15-03	↓	1350	↓	↓	↓	↓	↓					
23	SCH-15-06		1355										
24	SCH-15-12		1400										
25	SCH-15-18		1405										
26	SCH-16-01		1445						X				38
27	SCH-16-03		1450										
28	SCH-16-06		1455										
29	SCH-16-12		1458										
30	SCH-16-18	↓	1503	↓	↓	↓	↓	↓					
31	EB-070615	7-6-15	1545	G	AQ	N	1	X	←				Taken 7/6/15 and [redacted] Forgot to add with shipment #305 pI
32	EB-070715	7-7-15	1630	G	AQ	N	1	X					

Relinquished By: [signature] Accent Received By: [signature] EM Date/Time: 7/7/2015 16:30
Relinquished By: _____ Received By: _____ Date/Time: _____
Relinquished By: _____ Received By: _____ Date/Time: _____

Preservative: 1-ice, 2- H_2SO_4, 3-HCl, 4-HNO_3, 5-NaOH, 6-ZnOAC Remarks: EZ - Exclusion Zone
Sample Matrix: SW - Surface Water, GW - Groundwater, Sed - Sediment, S - Soil, Sld - Sludge, A - Air
P:\1325 AGC-Exide_Vernon\007_Offsite Soil Sampling\P

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WORK ORDER NUMBER: 15-07- 0294

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Exide

DATE: 07 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 16.7 °C (w/ CF): 16.5 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 836

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 836

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: LW3

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☐	☐	☑
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑ 7/7/15	☑	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☑ Z

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: LW3

Reviewed by: 836

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ATTACHMENT 2

DTSC Review of
July 2015 Soil Sampling Field Activities Report
Los Angeles Unified School District Schools

July 31, 2015

Department of Toxic Substances Control

Barbara A. Lee, Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Matthew Rodriquez
Secretary for
Environmental Protection

Edmund G. Brown Jr.
Governor

July 31, 2015

Mr. Fredrick Ganster
Exide Technologies
3000 Montrose Avenue
Reading, Pennsylvania 19605

DTSC REVIEW OF REVISED JULY 2015 SOIL SAMPLING FIELD ACTIVITIES REPORT, LOS ANGELES UNIFIED SCHOOL DISTRICT SCHOOLS, EXIDE TECHNOLOGIES, VERNON, CA (CORRECTIVE ACTION CONSENT ORDER, DOCKET NUMBER P3-01 /02-010)

Dear Mr. Ganster:

The Department of Toxic Substances Control (DTSC) has reviewed the report titled "July 2015 Soil Sampling Field Activities Report, Los Angeles Unified School District Schools" (Report), which was prepared by Avocet Environmental Inc. (Avocet) for Advanced GeoServices Inc. (AGC), a consultant for Exide Technologies, Inc. (Exide). The Report is dated July 30, 2015 and was received by DTSC via email on July 31, 2015. The Report includes a cover letter prepared by AGC, also dated July 31, 2015, and addressed to Mr. Pat Shanen of the Los Angeles County Unified School District (LAUSD). The Report documents the sampling protocol and the results of laboratory analysis of soil samples collected from 11 LAUSD schools on July 6 and 7, 2015. DTSC staff was present during the stated July 6 and July 7, 2015 sampling work, and based on our review of the Report we have concluded that the sampling protocol as stated in the Report is accurate.

The results of laboratory analysis are provided in table format, attached to the AGC cover letter. DTSC cannot validate the tabulated information in the AGC cover letter since the actual laboratory data was not provided in the Report. Exide must provide DTSC with validated laboratory reports that verify the tabulated soil concentrations submitted without delay.

Notwithstanding the above, DTSC has reviewed the information provided in AGC's cover letter and has concluded that additional analysis for lead in soils is necessary to gain a better understanding for lead concentrations exceeding 80 parts-per-million for the composite samples. Based on the tables this additional analysis would include the samples from: SCH-07 (0-1", 1-3", and 3-6"); SCH-09 (3-6"); SCH-11 (0-1" and 1-3"); and SCH-13 (0-1"). The additional laboratory analysis should be performed on an expedited basis.

Should you have any questions regarding this letter, please contact me at 916-255-3630 or Peter.Ruttan@dtsc.ca.gov.

Sincerely,

Peter Ruttan
Project Manager
Office of Permitting

cc: (via e-mail)

Mr. Chuck Giesige, Exide
Mr. Tom Strang, Exide
Mr. John Hogarth, Exide
Ms. Christine Graessle, Exide
Mr. Paul Stratman, AGC
Ms. Barbara Forslund, AGC
Mr. Pat Shanen, LAUSD
Mr. Keith Kihara, DTSC
Mr. Rizgar Ghazi, DTSC
Ms. Suhasini Patel, DTSC
Mr. Richard Sherwood, DTSC
Mr. Todd Wallbom, DTSC
Ms. Dina Kourda
Ms. Yolanda Garza

ATTACHMENT 3

Select Discrete Sample Results

Received August 2015

EXIDE VERNON
2014 - 2015 Residential Soil Sampling
Lead Results

Sample Location(s): SCH-07 (composite)
Sample Date: 7/6/2015

Sample Depth	SCH-07
0-1"	81.7
1-3"	87.3
3-6"	81.5
6-12"	66.4
12-18"	17.1

Samples are composites
All lead results reported in mg/kg

Sample Location: SCH-07 (discrete)
Sample Date: 7/6/2015

Sample Depth	1D	2D	3D	4D	5D
0-1"	35.7	213	170	70.3	66.4
1-3"	65.7	219	158	65.2	58.7
3-6"	78.9	217	171	68.7	23.4
6-12"	NA	NA	NA	NA	NA
12-18"	NA	NA	NA	NA	NA

All lead results reported in mg/kg
NA - Not analyzed. Only discrete samples for the depth intervals with composite results greater than 80 mg/kg were analyzed.

EXIDE VERNON
2014 - 2015 Residential Soil Sampling
Lead Results

Sample Location(s): SCH-09 (composite)
Sample Date: 7/6/2015

Sample Depth	SCH-09
0-1"	68.6
1-3"	70.1
3-6"	112
6-12"	52.6
12-18"	29.9

Samples are composites
All lead results reported in mg/kg

Sample Location: SCH-09 (discrete)
Sample Date: 7/6/2015

Sample Depth	1D	2D	3D	4D	5D
0-1"	NA	NA	NA	NA	NA
1-3"	NA	NA	NA	NA	NA
3-6"	105	19.5	139	163	17.5
6-12"	NA	NA	NA	NA	NA
12-18"	NA	NA	NA	NA	NA

All lead results reported in mg/kg
NA - Not analyzed. Only discrete samples for the depth intervals with composite results greater than 80 mg/kg were analyzed.

EXIDE VERNON
2014 - 2015 Residential Soil Sampling
Lead Results

Sample Location(s): SCH-11 (composite)
Sample Date: 7/7/2015

Sample Depth	SCH-11
0-1"	155
1-3"	207
3-6"	44.6
6-12"	43.6
12-18"	15.6

Samples are composites
All lead results reported in mg/kg

Sample Location: SCH-11 (discrete)
Sample Date: 7/7/2015

Sample Depth	1D	2D	3D	4D	5D
0-1"	481	688	80.8	31.9	29.4
1-3"	220	450	85.2	28.8	29.2
3-6"	NA	NA	NA	NA	NA
6-12"	NA	NA	NA	NA	NA
12-18"	NA	NA	NA	NA	NA

All lead results reported in mg/kg
NA - Not analyzed. Only discrete samples for the depth intervals with composite results greater than 80 mg/kg were analyzed.

EXIDE VERNON
2014 - 2015 Residential Soil Sampling
Lead Results

Sample Location(s): SCH-13 (composite)
Sample Date: 7/7/2015

Sample Depth	SCH-13
0-1"	88.1
1-3"	74.8
3-6"	70.4
6-12"	45.3
12-18"	22.1

Samples are composites
All lead results reported in mg/kg

Sample Location: SCH-13 (discrete)
Sample Date: 7/7/2015

Sample Depth	1D	2D	3D	4D	5D
0-1"	183	144	25.8	29.8	37.9
1-3"	NA	NA	NA	NA	NA
3-6"	NA	NA	NA	NA	NA
6-12"	NA	NA	NA	NA	NA
12-18"	NA	NA	NA	NA	NA

All lead results reported in mg/kg
NA - Not analyzed. Only discrete samples for the depth intervals with composite results greater than 80 mg/kg were analyzed.

DATA VALIDATION SUMMARY
Level I

Site Name: Exide Vernon
Project Number: 2013-3007
Sampling Date(s): 7/6 - 7/7/15

Laboratory: Calscience
Case/Order/SDG #: 15-08-0208

Compound List: Lead

Method: 6010

The following table indicates the data validation criteria examined, any problems identified, and the QA action applied.

Data Validation Criteria:	Accept	FYI	Qualify	Comments
Holding Times	X			
Blank Analysis	X			
Field Duplicate Analysis				NA
Surrogate Recoveries				NA
Matrix Spike Analysis (MS/MSD)		X		Sample conc >4X spike conc
Laboratory Control Sample Analysis (LCS)	X			
Laboratory Duplicate Analysis				NA
Overall Assessment of Data	X			
Other:				

General Comments: cooler temp: 2.1

Accept - No qualification required.
FYI - For your information only, no qualification necessary.
Qualify - Qualify as rejected, estimated or biased.
NR - Not Reviewed
NA - Not Applicable

QA Scientist: 

Date: 8/10/2015

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 08/04/15
Work Order: 15-08-0208
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-1D-01	**15-08-0208-1-A**	**07/06/15 09:15**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:27**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	35.7	0.495	0.990	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-1D-03	**15-08-0208-2-A**	**07/06/15 09:16**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:28**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	65.7	0.488	0.976	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-1D-06	**15-08-0208-3-A**	**07/06/15 09:17**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:31**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	78.9	0.518	1.04	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-2D-01	**15-08-0208-4-A**	**07/06/15 09:20**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:31**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	213	0.503	1.01	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-2D-03	**15-08-0208-5-A**	**07/06/15 09:21**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:32**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	219	0.515	1.03	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-2D-06	**15-08-0208-6-A**	**07/06/15 09:22**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:33**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	217	0.508	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-3D-01	**15-08-0208-7-A**	**07/06/15 09:25**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:34**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	170	0.493	0.985	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-3D-03	**15-08-0208-8-A**	**07/06/15 09:26**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:35**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	158	0.495	0.990	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

8/10/2015

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 08/04/15
Work Order: 15-08-0208
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-3D-06	**15-08-0208-9-A**	**07/06/15 09:27**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:36**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	171	0.483	0.966	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-4D-01	**15-08-0208-10-A**	**07/06/15 09:30**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:37**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	70.3	0.495	0.990	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-4D-03	**15-08-0208-11-A**	**07/06/15 09:31**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:37**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	65.2	0.513	1.03	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-4D-06	**15-08-0208-12-A**	**07/06/15 09:32**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:38**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	68.7	0.498	0.995	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-5D-01	**15-08-0208-13-A**	**07/06/15 09:35**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:41**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	66.4	0.483	0.966	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-5D-03	**15-08-0208-14-A**	**07/06/15 09:36**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:42**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	58.7	0.508	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-5D-06	**15-08-0208-15-A**	**07/06/15 09:37**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:43**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	23.4	0.518	1.04	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-09-1D-06	**15-08-0208-16-A**	**07/06/15 12:27**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:44**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	105	0.503	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 08/04/15
Work Order: 15-08-0208
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09 Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-09-2D-06	**15-08-0208-17-A**	**07/06/15 12:32**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:45**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	19.5	0.483	0.966	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-09-3D-06	**15-08-0208-18-A**	**07/06/15 12:38**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:46**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	139	0.510	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-09-4D-06	**15-08-0208-19-A**	**07/06/15 12:42**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:46**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	163	0.495	0.990	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-09-5D-06	**15-08-0208-20-A**	**07/06/15 12:47**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:47**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	17.5	0.490	0.980	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-1D-01	**15-08-0208-21-A**	**07/07/15 08:20**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:48**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	481	0.495	0.990	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-1D-03	**15-08-0208-22-A**	**07/07/15 08:21**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:49**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	220	0.505	1.01	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-2D-01	**15-08-0208-23-A**	**07/07/15 08:25**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:52**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	688	0.481	0.962	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-2D-03	**15-08-0208-24-A**	**07/07/15 08:26**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:53**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	450	0.513	1.03	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 08/04/15
Work Order: 15-08-0208
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09 Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-3D-01	**15-08-0208-25-A**	**07/07/15 08:30**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:53**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	80.8	0.513	1.03	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-3D-03	**15-08-0208-26-A**	**07/07/15 08:31**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:54**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	85.2	0.508	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-4D-01	**15-08-0208-27-A**	**07/07/15 08:35**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:55**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	31.9	0.476	0.952	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-4D-03	**15-08-0208-28-A**	**07/07/15 08:36**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:56**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	28.8	0.510	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-5D-01	**15-08-0208-29-A**	**07/07/15 08:40**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:57**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	29.4	0.510	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-5D-03	**15-08-0208-30-A**	**07/07/15 08:41**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:58**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	29.2	0.498	0.995	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-13-1D-01	**15-08-0208-31-A**	**07/07/15 10:25**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:58**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	183	0.490	0.980	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-13-2D-01	**15-08-0208-32-A**	**07/07/15 10:30**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:59**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	144	0.510	1.02	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 08/04/15
Work Order: 15-08-0208
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-13-3D-01	**15-08-0208-33-A**	**07/07/15 10:35**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 13:02**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	25.8	0.485	0.971	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-13-4D-01	**15-08-0208-34-A**	**07/07/15 10:40**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 13:03**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	29.8	0.515	1.03	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-13-5D-01	**15-08-0208-35-A**	**07/07/15 10:45**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 13:04**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	37.9	0.518	1.04	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-21548**	**N/A**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:19**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.500	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-21549**	**N/A**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:20**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.500	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Advanced GeoServices Corporation		Date Received:	08/04/15
1055 Andrew Drive, Suite A		Work Order:	15-08-0208
West Chester, PA 19380-4293		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Exide Vernon Offsite / 2013-3007-09			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SCH-11-1D-01	**Sample**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:48**	**150804S08**
SCH-11-1D-01	**Matrix Spike**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:25**	**150804S08**
SCH-11-1D-01	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:26**	**150804S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	481.2	25.00	413.8	4X	295.5	4X	75-125	4X	0-20	Q

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RPD: Relative Percent Difference. CL: Control Limits

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WORK ORDER NUMBER: 15-08-0208

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Advanced GeoServices Corporation

Client Project Name: Exide Vernon Offsite / 2013-3007-09

Attention: Adam Doubleday
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Amanda Porter

Approved for release on 08/05/2015 by:
Amanda Porter
Project Manager

ResultLink

Email your PM

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Client Project Name: Exide Vernon Offsite / 2013-3007-09
Work Order Number: 15-08-0208

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Work Order Narrative

Work Order: 15-08-0208 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 08/04/15. They were assigned to Work Order 15-08-0208.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 08/04/15
Work Order: 15-08-0208
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-1D-01	**15-08-0208-1-A**	**07/06/15 09:15**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:27**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	35.7	0.495	0.990	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-1D-03	**15-08-0208-2-A**	**07/06/15 09:16**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:28**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	65.7	0.488	0.976	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-1D-06	**15-08-0208-3-A**	**07/06/15 09:17**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:31**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	78.9	0.518	1.04	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-2D-01	**15-08-0208-4-A**	**07/06/15 09:20**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:31**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	213	0.503	1.01	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-2D-03	**15-08-0208-5-A**	**07/06/15 09:21**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:32**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	219	0.515	1.03	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-2D-06	**15-08-0208-6-A**	**07/06/15 09:22**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:33**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	217	0.508	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-3D-01	**15-08-0208-7-A**	**07/06/15 09:25**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:34**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	170	0.493	0.985	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-3D-03	**15-08-0208-8-A**	**07/06/15 09:26**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:35**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	158	0.495	0.990	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 08/04/15
Work Order: 15-08-0208
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-3D-06	**15-08-0208-9-A**	**07/06/15 09:27**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:36**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	171	0.483	0.966	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-4D-01	**15-08-0208-10-A**	**07/06/15 09:30**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:37**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	70.3	0.495	0.990	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-4D-03	**15-08-0208-11-A**	**07/06/15 09:31**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:37**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	65.2	0.513	1.03	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-4D-06	**15-08-0208-12-A**	**07/06/15 09:32**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:38**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	68.7	0.498	0.995	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-5D-01	**15-08-0208-13-A**	**07/06/15 09:35**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:41**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	66.4	0.483	0.966	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-5D-03	**15-08-0208-14-A**	**07/06/15 09:36**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:42**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	58.7	0.508	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-07-5D-06	**15-08-0208-15-A**	**07/06/15 09:37**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:43**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	23.4	0.518	1.04	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-09-1D-06	**15-08-0208-16-A**	**07/06/15 12:27**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:44**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	105	0.503	1.01	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 08/04/15
Work Order: 15-08-0208
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-09-2D-06	**15-08-0208-17-A**	**07/06/15 12:32**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:45**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	19.5	0.483	0.966	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-09-3D-06	**15-08-0208-18-A**	**07/06/15 12:38**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:46**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	139	0.510	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-09-4D-06	**15-08-0208-19-A**	**07/06/15 12:42**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:46**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	163	0.495	0.990	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-09-5D-06	**15-08-0208-20-A**	**07/06/15 12:47**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:47**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	17.5	0.490	0.980	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-1D-01	**15-08-0208-21-A**	**07/07/15 08:20**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:48**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	481	0.495	0.990	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-1D-03	**15-08-0208-22-A**	**07/07/15 08:21**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:49**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	220	0.505	1.01	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-2D-01	**15-08-0208-23-A**	**07/07/15 08:25**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:52**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	688	0.481	0.962	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-2D-03	**15-08-0208-24-A**	**07/07/15 08:26**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:53**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	450	0.513	1.03	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 08/04/15
Work Order: 15-08-0208
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09 Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-3D-01	**15-08-0208-25-A**	**07/07/15 08:30**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:53**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	80.8	0.513	1.03	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-3D-03	**15-08-0208-26-A**	**07/07/15 08:31**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:54**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	85.2	0.508	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-4D-01	**15-08-0208-27-A**	**07/07/15 08:35**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:55**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	31.9	0.476	0.952	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-4D-03	**15-08-0208-28-A**	**07/07/15 08:36**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:56**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	28.8	0.510	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-5D-01	**15-08-0208-29-A**	**07/07/15 08:40**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:57**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	29.4	0.510	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-11-5D-03	**15-08-0208-30-A**	**07/07/15 08:41**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:58**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	29.2	0.498	0.995	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-13-1D-01	**15-08-0208-31-A**	**07/07/15 10:25**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:58**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	183	0.490	0.980	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-13-2D-01	**15-08-0208-32-A**	**07/07/15 10:30**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:59**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	144	0.510	1.02	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 08/04/15
Work Order: 15-08-0208
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Exide Vernon Offsite / 2013-3007-09

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-13-3D-01	**15-08-0208-33-A**	**07/07/15 10:35**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 13:02**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	25.8	0.485	0.971	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-13-4D-01	**15-08-0208-34-A**	**07/07/15 10:40**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 13:03**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	29.8	0.515	1.03	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SCH-13-5D-01	**15-08-0208-35-A**	**07/07/15 10:45**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 13:04**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	37.9	0.518	1.04	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-21548**	**N/A**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:19**	**150804L07**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.500	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-21549**	**N/A**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:20**	**150804L08**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.500	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Advanced GeoServices Corporation
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293

Date Received: 08/04/15
Work Order: 15-08-0208
Preparation: EPA 3050B
Method: EPA 6010B

Project: Exide Vernon Offsite / 2013-3007-09

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SCH-07-1D-01	**Sample**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:27**	**150804S07**
SCH-07-1D-01	**Matrix Spike**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:24**	**150804S07**
SCH-07-1D-01	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:24**	**150804S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	35.70	25.00	59.58	96	58.69	92	75-125	2	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Advanced GeoServices Corporation	Date Received:	08/04/15
1055 Andrew Drive, Suite A	Work Order:	15-08-0208
West Chester, PA 19380-4293	Preparation:	EPA 3050B
	Method:	EPA 6010B
Project: Exide Vernon Offsite / 2013-3007-09		Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SCH-11-1D-01	**Sample**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:48**	**150804S08**
SCH-11-1D-01	**Matrix Spike**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:25**	**150804S08**
SCH-11-1D-01	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:26**	**150804S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	481.2	25.00	413.8	4X	295.5	4X	75-125	4X	0-20	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Advanced GeoServices Corporation		Date Received:	08/04/15
1055 Andrew Drive, Suite A		Work Order:	15-08-0208
West Chester, PA 19380-4293		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Exide Vernon Offsite / 2013-3007-09			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-21548	**LCS**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:21**	**150804L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Lead	25.00	26.19	105	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Advanced GeoServices Corporation		Date Received:	08/04/15
1055 Andrew Drive, Suite A		Work Order:	15-08-0208
West Chester, PA 19380-4293		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Exide Vernon Offsite / 2013-3007-09			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-21549	**LCS**	**Solid**	**ICP 8300**	**08/04/15**	**08/05/15 12:22**	**150804L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Lead	25.00	25.92	104	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-08-0208 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	935	ICP 8300	1

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Glossary of Terms and Qualifiers

Work Order: 15-08-0208 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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1055 Andrew Dr. Suite A
West Chester, PA 19380
tel 610.840.9100

ADVANCED GEOSERVICES CORP.
CHAIN OF CUSTODY

Project Name: Exide Vernon Offsite
AGC Contact: Adam Doubleday
Lab Name/Location: Calscience, Garden Grove, CA
Turnaround Time (circle one) Standard 5-Day 72-Hour (24-Hour)

Project # 2013-3007-09
Shipment #
Shipment Tracking # courier pick-up
Deliverables (circle one) Results only (Results/QC summary) CLP-Like

15-08-0208

Lab Use Only	Sample ID	Date	Time	Sample Type (C or G)	Matrix	Field Filtered	# of Containers	ANALYSIS						Preservatives	REMARKS
								Lead							Invoice to Exide
1	SCH-07-1D-01	7/ 6 /15	915	G	S	N	1	X							
2	SCH-07-1D-03	7/ 6 /15	916	G	S	N	1	X							
3	SCH-07-1D-06	7/ 6 /15	917	G	S	N	1	X							
4	SCH-07-2D-01	7/ 6 /15	920	G	S	N	1	X							
5	SCH-07-2D-03	7/ 6 /15	921	G	S	N	1	X							
6	SCH-07-2D-06	7/ 6 /15	922	G	S	N	1	X							
7	SCH-07-3D-01	7/ 6 /15	925	G	S	N	1	X							
8	SCH-07-3D-03	7/ 6 /15	926	G	S	N	1	X							
9	SCH-07-3D-06	7/ 6 /15	927	G	S	N	1	X							
10	SCH-07-4D-01	7/ 6 /16	930	G	S	N	1	X							
11	SCH-07-4D-03	7/ 6 /17	931	G	S	N	1	X							
12	SCH-07-4D-06	7/ 6 /18	932	G	S	N	1	X							
13	SCH-07-5D-01	7/ 6 /19	935	G	S	N	1	X							
14	SCH-07-5D-03	7/ 6 /20	936	G	S	N	1	X							
15	SCH-07-5D-06	7/ 6 /21	937	G	S	N	1	X							

Relinquished By: [signature] Received By: [signature] ECI Date/Time: 8/4/15 1616
Relinquished By: [signature] Received By: [signature] ECI Date/Time: 8/4/15 1800

Preservative: 1-ice, 2- H_2SO_4, 3-HCl, 4-HNO_3, 5-NaOH, 6-ZnOAC
Sample Matrix: SW - Surface Water, GW - Groundwater, Sed - Sediment, S - Soil, Sld - Sludge, A - Air
C:\Users\jbatt\Desktop\Exide Vernon\Test Borings\Chain of Custody - Feed Room Bag

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1055 Andrew Dr. Suite A
West Chester, PA 19380
tel 610.840.9100

ADVANCED GEOSERVICES CORP.
CHAIN OF CUSTODY

0208

Project Name: Exide Vernon Offsite
AGC Contact: Adam Doubleday
Lab Name/Location: Calscience, Garden Grove, CA
Turnaround Time (circle one) Standard 5-Day 72-Hour (24-Hour)

Project # 2013-3007-09
Shipment #
Shipment Tracking # courier pick-up
Deliverables (circle one) Results only (Results/QC summary) DLP-Like

Lab Use Only	Sample ID	Date	Time	Sample Type (C or G)	Matrix	Field Filtered	# of Containers	ANALYSIS						Preservatives	REMARKS
								Lead							Invoice to Exide
16	SCH-09-1D-06	7/6/15	1227	G	S	N	1	X							
17	SCH-09-2D-06	7/6/15	1232	G	S	N	1	X							
18	SCH-09-3D-06	7/6/15	1237	G	S	N	1	X							
19	SCH-09-4D-06	7/6/15	1242	G	S	N	1	X							
20	SCH-09-5D-06	7/6/15	1247	G	S	N	1	X							
21	SCH-11-1D-01	7/7/15	820	G	S	N	1	X							
22	SCH-11-1D-03	7/7/15	821	G	S	N	1	X							
23	SCH-11-2D-01	7/7/15	825	G	S	N	1	X							
24	SCH-11-2D-03	7/7/15	826	G	S	N	1	X							
25	SCH-11-3D-01	7/7/15	830	G	S	N	1	X							
26	SCH-11-3D-03	7/7/15	831	G	S	N	1	X							
27	SCH-11-4D-01	7/7/15	835	G	S	N	1	X							
28	SCH-11-4D-03	7/7/15	836	G	S	N	1	X							
29	SCH-11-5D-01	7/7/15	840	G	S	N	1	X							
30	SCH-11-5D-03	7/7/15	841	G	S	N	1	X							

Relinquished By: John Suttj — Received By: Rudy W ECC — Date/Time: 8/4/15 1616
Relinquished By: Rudy W. — Received By: ECC — Date/Time: 8/4/15 1800

Preservative: 1-ice, 2- H_2SO_4, 3-HCl, 4-HNO_3, 5-NaOH, 6-ZnOAC
Sample Matrix: SW - Surface Water, GW - Groundwater, Sed - Sediment, S - Soil, Sld - Sludge, A - Air
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1055 Andrew Dr. Suite A
West Chester, PA 19380
tel 610.840.9100

ADVANCED GEOSERVICES CORP.
CHAIN OF CUSTODY

0208

Project Name: Exide Vernon Offsite
AGC Contact: Adam Doubleday
Lab Name/Location: Calscience, Garden Grove, CA
Turnaround Time (circle one) Standard 5-Day 72-Hour (24-Hour)

Project # 2013-3007-09
Shipment #
Shipment Tracking # courier pick-up
Deliverables (circle one) Results only (Results/QC summary) LP-Like

Lab Use Only	Sample ID	Date	Time	Sample Type (C or G)	Matrix	Field Filtered	# of Containers	ANALYSIS: Lead	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	Preservatives	REMARKS: Invoice to Exide
31	SCH-13-10-01	7/7/15	1025	G	S	N	1	X							
32	SCH-13-20-01	7/7/15	1030	G	S	N	1	X							
33	SCH-13-30-01	7/7/15	1035	G	S	N	1	X							
34	SCH-13-40-01	7/7/15	1040	G	S	N	1	X							
35	SCH-13-50-01	7/7/15	1045	G	S	N	1	X							
	SCH-	7/ /15		G	S	N	1	X							
	SCH	// /15		G	S	N	1	X							
	SCH	// /15		G	S	N	1	X							
	SCH	// /15		G	S	N	1	X							
	SCH	// /15		G	S	N	1	X							
	SCH	// /15		G	S	N	1	X							
	SCH	// /15		G	S	N	1	X							
	SCH-	// /15		G	S	N	1	X							
	SCH	// /15		G	S	N	1	X							
	SCH	// /15		G	S	N	1	X							

Relinquished By: John Sato — Received By: Rudy W ECI — Date/Time: 8/4/15 1616
Relinquished By: Rudy W — Received By: [illegible] ECI — Date/Time: 8/4/15 1800

Preservative: 1-ice, 2- H_2SO_4, 3-HCl, 4-HNO_3, 5-NaOH, 6-ZnOAC
Sample Matrix: SW - Surface Water, GW - Groundwater, Sed - Sediment, S - Soil, Sld - Sludge, A - Air
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WORK ORDER NUMBER: 15-08- 0204

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: ADVANCED GEOSERVICES CORP.

DATE: 08 / 4 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 2.1 °C (w/ CF): 2.0 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 676

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 676

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☐	☐	☑
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ Zip bag

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: 774

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