Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
5796 Corporate Avenue
Cypress, California 90630

Edmund G. Brown Jr.
Governor

November 8, 2016

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

REVIEW OF PHASE 2 SOIL REMOVAL ACTIVITIES-
ROWAN AVENUE SCHOOL, LOS ANGELES UNIFIED SCHOOL DISTRICT,
600 S. ROWAN AVENUE, LOS ANGELES, CALIFORNIA 90023

Dear Mr. Laughton:

The California Department of Toxic Substances Control (DTSC) has reviewed the *"Rowan Avenue Phase 2 Removal Activities Letter Report"* (Report). The Report is dated October 14, 2016 and was prepared by AECOM for the Los Angeles Unified School District. The Report provides details associated with the soil removal activities performed in accordance with the AECOM's Technical Memorandum work plan dated September 12, 2016.

The activities included removal of 50 cubic yards of previously identified lead-impacted soil from two landscaped areas. The soil was removed to 0.5 feet below ground surface. After the removal, a geotextile fiber was placed at the bottom of the 0.5 feet excavation to separate the clean fill soil. In accordance with the Report, clean fill was imported from the Whittier Fertilizer Company in Pico Rivera, California. DTSC notes that the work plan indicated that the fill material will be imported from Legacy High School. DTSC understands that the change in source of the fill material was because of material handling issues including an abundance of aggregate material, and the need to incorporate additional soil amendments to the fill from Legacy High School.

Based on our review of the Report, DTSC concludes that the work was completed in accordance with AECOM's Technical Memorandum dated September 12, 2016. If you have any questions, please do not hesitate to contact me at (714) 484-5449 or at rafat.abbasi@dtsc.ca.gov.

Sincerely,

Rafat Abbasi, P.E.
Exide Field Operations
Brownfields and Environmental Restoration Program

cc: (via e-mail)

Zoe Bayar
Division Chief-Exide Project
Brownfields and Environmental Restoration (Cleanup) Program
zoe.bayar@dtsc.ca.gov

Tamara Zielinski
Branch Chief
Exide Project Division
Brownfields and Environmental Restoration (Cleanup) Program
tamara.zielinski@dtsc.ca.gov

Hortensia Muniz-Ghazi
Exide Project Division
Brownfields and Environmental Restoration (Cleanup) Program
hortensia.muniz-ghazi@dtsc.ca.gov

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Los Angeles Unified School District
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Los Angeles, California 90017
pat.schanen@lausd.net

Anthony Espinoza
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anthony.espinoza@lausd.net

cc: Bill Piazza
Office of Environmental Health and Safety
Los Angeles Unified School District
333 South Beaudry Avenue, Floor 21
Los Angeles, California 90017
bill.piazza@lausd.net

AECOM
999 Town and Country Road
Orange, CA 92868
www.aecom.com
Tel: 714 567 2400

October 14, 2016

Mr. Patrick Schanen
Office of Environmental Health and Safety
Los Angeles Unified School District
333 S. Beaudry Avenue, 21st Floor
Los Angeles, California 90017

Re: Rowan Phase 2 Soil Removal Activities

Rowan Avenue Elementary School
600 S. Rowan Avenue
Los Angeles, California 90023

AECOM is pleased to submit this letter report to the Los Angeles Unified School District (LAUSD) Office of Environmental Health and Safety (OEHS) documenting the Phase 2 soil removal activities conducted at Rowan Avenue Elementary School (Rowan ES) on Saturday October 1, 2016 and Sunday October 2, 2016. The soil removal activities were conducted in accordance with the AECOM's Technical Memorandum work plan dated September 12, 2016 and received Department of Toxic Substances Control (DTSC) concurrence on September 20, 2016. The school layout and the excavation areas are illustrated on Figure 1.

The landscaping areas identified for the Phase 2 soil removal activities were represented by Parsons' soil samples SCH-09-3D, SCH-09-4D, and SCH-09-11. Lead concentrations above the DTSC-approved lead screening level of 110 milligrams per kilogram (mg/kg) were detected at these locations. Rowan ES photographs showing the proposed soil removal areas are presented in Attachment A. The lead soil sampling results in mg/kg are summarized below:

Sample Depth (inches below ground surface)	SCH-09-03D	SCH-09-04D	SCH-09-11
0-1	NA	NA	108
1-3	NA	NA	**119**
3-6	**139**	**163**	110

Pre-Field Activities

A general encroachment permit was obtained from the County of Los Angeles Department of Public Works for sidewalk closure along Rowan Avenue and for work on Sunday October 2, 2016. A copy of the permit is included as Attachment B.

A work notice for the upcoming field activities was prepared in both English and Spanish and was laminated and placed on gates/fences around the perimeter of school. Copies of the work notice were also distributed to nearby residents, businesses, school faculty/staff, and students.

Prior to beginning field work, AECOM prepared a site-specific health and safety plan (HSP) pursuant to Title 29 Code of Federal Regulations, Section 1910.120. The HSP was also prepared according to

California Occupational Safety and Health Administration (Cal-OSHA) requirements. AECOM field personnel reviewed the HSP prior to commencing fieldwork, and a copy of the HSP was kept onsite during excavation activities at all times. A Site safety briefing was conducted prior to the field work to identify potential physical and chemical hazards and outline measures to be taken in the event of an emergency.

During field activities, all personnel wore appropriate Level D personal protective equipment (PPE) including steel-toed boots, gloves, hardhats, safety glasses, and safety vests. No incidents or emergency actions occurred during the field program.

Prior to commencement of field activities, Underground Services Alert (USA) was notified of our intent to conduct soil removal activities at least 48 hours prior to initiation of intrusive field tasks.

Soil Removal and Backfill Activities

In accordance with the work plan, previously identified lead-impacted soil from the two landscaping areas was removed to approximately 0.5 feet below ground surface (bgs) using either an excavator or by hand in areas around tree roots and utilities as shown in Attachment A. Excavated soils were contained in super sacks and then transported offsite in four trucks. Each super sack contains approximately 1 cubic yard of soil. Fifty super sacks were used for the project. Therefore, a total of approximately 50 cubic yards of soil was excavated at Rowan ES.

After the soil removal was completed, a geotextile fabric was laid at the bottom of the 6-inch excavation to separate the clean fill soil. Clean fill was imported from Whittier Fertilizer Company located at 9441 Kruse Rd, Pico Rivera, California. The import facility was identified by LAUSD and provides lawn topping for LAUSD landscaping needs. Approximately 5 inches of clean topsoil was placed and compacted using a vibration compactor. A copy of the soil certifications are provided in Attachment F. Sod was installed on October 5, 2016. The fencing will remain in place until the sod is established. Photographs of different stages of field activities are included in Attachment A.

During soil removal and backfill activities, water was applied to reduce dust generation. An exclusion zone was also set up for the immediate excavation areas.

Airborne dust monitoring was conducted to verify and document the effectiveness of dust suppression measures in conformance with South Coast Air Quality Management District (SCAQMD) Rule 403 for fugitive dust emissions. Based on the total volume of soil to be excavated and disposed offsite, notification or filing of a Fugitive Dust Emission Control Plan was not required.

Dust monitoring was conducted during soil handling activities using portable dust monitors (PDR 1000) to verify and document dust suppression efforts. Air monitoring for dust was performed during the soil excavation, stockpiling, loading, and backfilling activities at the perimeter of Rowan ES work areas utilizing an upwind/downwind sampling approach to ensure compliance with the SCAQMD Rule 403 for fugitive dust control, with one upwind and two downwind locations. Dust monitoring was conducted with continuous real-time particulate dust monitors, which remained in upwind and downwind locations during all soil handling activities (maps showing the perimeter monitoring locations are included in Attachment C). The real-time particulate readings were checked and recorded

by onsite personnel approximately every 30 minutes. In addition, a fourth portable dust monitor was used to monitor particulate levels within the excavation area.

The SCAQMD Rule 403 action level for the difference in dust readings between upwind and downwind locations is 50 micrograms per cubic meter (µg/m^3), based on dust particles measuring 10 micrometers or less (PM10). This action level (50 µg/m^3) was selected as the action level for dust monitoring activities at the perimeter of the property (difference between upwind and downwind readings). A dust Site Action Level for the equipment operators and workers was selected at 1.0 milligrams per cubic meter (mg/m^3) steady for 5 minutes. This action level triggers increased dust suppression activities to mitigate dust levels below 1.0 mg/m^3 and respiratory protection for the equipment operators if dust levels exceed 1.0 mg/m^3 for greater than 5 minutes.

The dust monitoring logs recording the upwind and downwind perimeter readings, as well as the excavation area, are included in Attachment C. The calibration logs for the dust monitors are also included in Attachment C. The particulate readings are presented in mg/m^3. As noted in the logs, the difference between the upwind and downwind readings did not exceed the SCAQMD Rule 403 action level of 50 µg/m^3 (0.05 mg/m^3) during field activities. The Site Action Level of 1.0 mg/m^3 for the equipment operators and workers was also not exceeded (Attachment C).

Waste Profiling and Disposal

A sample was collected from the excavation area on August 27, 2016 and analyzed for the following for waste profiling purposes:

- Title 22 metals by U.S. Environmental Protection Agency (EPA) Method 6010B/7471A
- Volatile organic compounds (VOCs) by EPA Method 8260
- Total petroleum hydrocarbons (TPH) by EPA Method 8015M
- Soluble lead by the Waste Extract Test for comparison to the Soluble Threshold Limit Concentration (STLC), and
- Soluble lead by the Toxic Characteristic Leaching Procedure (TCLP).

Offsite chemical analysis was performed by TestAmerica of Irvine, California. TestAmerica is certified by California's Environmental Laboratory Accreditation Program (ELAP). A copy of the laboratory report is included as Attachment D.

Based on the waste profile sample analytical results, the soil removed from Rowan ES was classified as non-hazardous waste for disposal.

As shown in Attachment A, the excavated soils were staged in 1-yard super sacks and placed on plastic. At the end of the work day, the super sacks were covered with plastic. On Sunday October 2, 2016, the super sacks were loaded into transport trucks for offsite disposal.

Copies of the non-hazardous waste manifests and weight tickets for the removed soil are provided in Attachment E.

CLOSING

If you have any questions regarding this letter, please do not hesitate to contact Cynthia Shen at (714) 689-7192.

Sincerely,
AECOM

REGISTERED PROFESSIONAL ENGINEER
SI SHEN
No. 70875
EXPIRES 6/30/2017
CIVIL
STATE OF CALIFORNIA

Cynthia (Si) Shen, P.E.
Project Manager
Professional Civil Engineer No. 70875

Brian Jacobs, P.G., C.HG.
Program Manager
P.G. Registration No. 6652

cc: Mr. Anthony Espinoza – LAUSD OEHS
Mr. Bill Piazza – LAUSD OEHS

Attachments

Figure 1 – Rowan ES Soil Removal Area
Attachment A – Site Photographs
Attachment B – County of Los Angeles Encroachment Permit
Attachment C – Dust Monitoring Records
Attachment D – Waste Profile Analytical Laboratory Report
Attachment E – Waste Disposal Manifests
Attachment F – Soil Certification

FIGURES

Source: Google Earth, 2016

LEGEND

- SOIL SAMPLE LOCATIONS, 2015
- SOIL SAMPLE LOCATIONS, Aug. 2016

0 150

APPROXIMATE SCALE IN FEET

N

ROWAN ES SOIL REMOVAL AREA

CLIENT: LAUSD

LOCATION: Rowan Avenue Elementary School
600 South Rowan Avenue, Los Angeles, CA

AECOM

FIGURE: 1

ATTACHMENT A

SITE PHOTOGRAPHS

Photograph 1

View to the northeast of the larger landscaping area at Rowan Avenue Elementary School before soil removal.

Photograph 2

View to the northeast of the smaller landscaping area at Rowan Avenue Elementary School before soil removal.

Photograph 3

View to the northeast of the larger landscaping area at Rowan Avenue Elementary School during soil removal.

Photograph 4

View to the northeast of the smaller landscaping area at Rowan Avenue Elementary School during soil removal.

Photograph 5

View to the northeast of the larger landscaping area at Rowan Avenue Elementary School during soil removal.

Photograph 6

View to the northeast of the larger landscaping area at Rowan Avenue Elementary School during soil removal.

Photograph 7

View of super sacks used for soil transport.

Photograph 8

View of geotextile being laid prior to backfilling.

Photograph 9

View to the north of the larger landscaping area at Rowan Avenue Elementary School after backfilling.

Photograph 10

View to the north of the larger landscaping area at Rowan Avenue Elementary School at completion.

Photograph 11

View to the northeast of the smaller landscaping area at Rowan Avenue Elementary School after backfilling.

Photograph 12

View to the northwest of the smaller landscaping area at Rowan Avenue Elementary School at completion.

ATTACHMENT B

COUNTY OF LOS ANGELES ENCROACHMENT PERMIT

INSPECTION NOTIFICATION ON 9/28 @ 0915AM

Tract #:

Permit #: **PCEN 201602842**

Issued By: WNEZART
Issued Date: 26-SEP-16

Permit Office: 6

PC-GENENCR
GENERAL ENCROACHMENT

COUNTY OF LOS ANGELES-DPW
Department Of Public Works
Alhambra, CA 91803 - (626)458-3129

Encroachment Permit

CUSTOMER COPY

Individual's / Company Name	Address / City, State Zip	Work Phone	Home Phone
(APP) LOS ANGELES UNIFIED SCHOOL	333 S. BEAUDRY AVE, 21ST FLOOR	(213)241-5487	
ANTHONY ESPINOZA	LOS ANGELES, CA 90017		
(CNT) INNOVATIVE CONSTRUCTION SOL	40011 W CHANDLER AVENUE	(714)893-6366	
CHARLES PARADA	SANTA ANA, CA 92704		

Emergency Contact

CHARLES PARADA (714) 893-6366

Location

Site Address: ROWAN AV - HUBBARD ST / 3RD ST

Description: LAC - 600 SOUTH ROWAN AVENUE, EAST LOS ANGELES (PCA - L201602842)

Scope of Work

PURPOSE: Sidewalk closure for onsite soil removal as shown on the attached plans. All side walk panels removed or damaged MUST be replaced from score line to score line to the satisfaction of the Inspector.

1- Los Angeles Unified School District assumes full responsibility for the restoration of the road right away.

2- Permittee shall maintain traffic flow at all times and shall follow the traffic control requirements set forth in the most recent edition of the California MUTCD Part 6 (California Manual of Temporary Traffic Controls).

3- Only Innovative Construction Solutions is permitted to do work under this permit. No other contractor shall be allowed to work under this permit without submittal and approval of its insurance by the County as stipulated in section 7-3 and 7-4 of the "GREENBOOK" and "GRAYBOOK". It is the responsibility of the permittee/owner to submit the proper insurance documents (general liability, workers comp, and additional insured endorsement showing LA County as an additional insured) prior to the start of construction.

4- Should evidence of the renewal or replacement of the contractor's insurance policy not be filed with the County prior to the expiration or cancellation date, the County will stop all work and no further work shall be performed until new insurance coverage has been obtained by the Contractor, as stipulated in section 7-3 and 7-4 of the "GREENBOOK" and "GRAYBOOK".

Permit Detail

ATTACHMENT :	LAPWRP612R - PCBMPATTACH - STD RD PERMIT PROVISIONS
INSPECTION CHARGE #:	L201602842
INSURANCE EXPIRE	GL 10/01/17, WC 10/01/16
PLAN CHECK CHARGE #	LRDPRCS
ROAD DEPARTMENT NO. :	142 - P.O.4
THOMAS GUIDE :	635 - D7

Comments

WNEZART	15-SEP-16	RECEIPT NO. 16-0003738.
DTOVAR	16-SEP-16	Los Angeles Unified School District is the financially responsible party.

Fees	Fee Code	Acount Code	Amount
ENCROACHMENT-ACTUAL COST DEPOSIT-NEW PCA	PCTF277017	B03_8320	$1,000.00
ISSUANCE FEE ENCROACHMENT PERMIT	PCISSENC	B03_8333	$152.00
PERMIT PROCESSING - ROAD PERMIT	PCRDPRCS	B03_9158	$278.00
		Total Fees:	$1,430.00

CHECK

PCEN 201602842

REPORT: lapwrp028

Tract #:

Permit #: **PCEN 201602842**

Issued By: WNEZART
Issued Date: 26-SEP-16

Permit Office: 6

Permittee is hereby permitted to perform the scope of work described above at the location described above, subject to all applicable provisions of the County of Los Angeles Highway Permit Ordinance (Division 1 of Title 16, Los Angeles County Code), and/or any Municipal Code or Ordinance governing the area where this work is to be done. Permittee's activities in connection with this Permit shall also be subject to the provisions and conditions contained in this Permit and any attachments, which are incorporated herein. This Permit is revocable by the County if the County determines that the public interest and welfare require such revocation and shall be deemed void if the Permittee is not in compliance with Section 3800 of the Labor Code.

Performance of the work of activity under this permit is tantamount to agreeing to the conditions of this permit. A copy of this permit shall be kept at the work site during the period of operation within road right of way and shall be shown to the County's representative or any law enforcement officer upon demand.

INSPECTION REQUIRED

CALL PERMIT OFFICE AT LEAST ONE (1) WORKING DAY BEFORE STARTING WORK UNDER THIS PERMIT. FAILURE TO DO SO IS CAUSE FOR REVOCATION OF THIS PERMIT. THIS PERMIT IS VOID IF WORK IS NOT STARTED WITHIN 60 DAYS FROM THE DATE OF ISSUANCE.

PERMIT OFFICE NO. 4
Hollydale Office
11282 SOUTH GARFIELD AVENUE
HOLLYDALE, CA 90242
PHONE NO. 562-869-0218
FAX NO. 562-869-2895

PCEN 201602842

REPORT: lapwrp028

STANDARD ROAD PERMIT PROVISIONS

A. This Permit is valid only for the purpose specified herein. No change of purpose or deviation from the drawings attached to this permit is permitted except upon prior written permission of the Director or his/her representative.

B. Activities and uses authorized under this Permit are subject to any instructions of the Director or his/her representative. ALL INSTRUCTIONS MUST BE STRICTLY OBSERVED.

C. The Permittee (including its contractors and subcontractors) shall indemnify, defend (with counsel reasonably satisfactory to the County of Los Angeles), and hold harmless the County of Los Angeles, and its elected and appointed officers, employees, and agents, from and against any and all claims, expenses (including court costs and reasonable attorney and expert witness fees) demands, liabilities, losses, or causes of action of whatsoever nature or character, for injury, illness or death or loss of, damage to, or destruction of property which arises out of, or is in any way connected to, the activities of the Permittee described in this Permit.

This indemnification shall survive in its entirety the termination or revocation of this Permit, and shall remain in full force and effect in perpetuity, unless agreed to otherwise in writing by the County of Los Angeles.

D. Any damage caused to County structures by reason of exercise of this Permit shall be repaired, at the Permittee's sole expense, to the satisfaction of the County. Should the Permittee neglect to promptly make repairs, the County may perform such work or have others perform the work, and the Permittee agrees to reimburse the County for all costs of the work so performed upon receipt of a statement thereof.

E. Any facility, structure or portions thereof or plantings placed on County rights of way or which affect County structures must be removed, revised, and/or relocated by Permittee without cost to the County, or any other public agency the County shall so designate, should future activities or policy so require.

F. This Permit is subject to all prior unexpired permits, agreements, easements, privileges, or other rights, whether recorded or unrecorded, in the area specified by this Permit. Permittee shall make his own arrangements with holders of such prior rights.

G. Unless otherwise specified herein, this Permit may be revoked or canceled at any time by the Director or his/her representative when required for County purposes.

H. Upon written notice of cancellation or revocation of this Permit for any cause whatsoever, Permittee shall, if directed by County, restore County right of way and structures to their condition prior to commencement of work under this Permit, including the removal of any improvements installed by Permittee, and then shall vacate County property. Should Permittee neglect to restore the premises or structures to a condition reasonably satisfactory to the Director or his/her representative, the County may perform such work or have others perform the work, and the Permittee agrees to reimburse the County for all costs of the work so performed upon receipt of a statement thereof.

I. In the event of a County employee work stoppage, the Director or his/her representative reserves the right to suspend all activity authorized under this Permit which requires inspection by the County. Activity authorized by this Permit shall not resume until County approval to do so is given.

J. Unless otherwise specifically provided, all costs incurred by Permittee as a result of the conditions of this Permit or exercise by County of any right, authority, or reservation contained therein shall be the sole responsibility of and shall be borne entirely by the Permittee.

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

Construction and Encroachment Permit Requirements

THESE REQUIREMENTS ARE ATTACHED TO AND MADE A PART OF PERMIT NO. PCEN 201602842

DATE: September 26, 2016

GENERAL REQUIREMENTS

1. All work shall comply with the current "GREENBOOK" (Standard Specifications for Public Works Construction) and "GRAYBOOK" (Additions and Amendments to the Standard Specifications for Public Works Construction), and applicable State and Local laws.

2. If at any time, subsequent to the exercising of this permit, it becomes necessary to repair such surface due to settlement or any other cause directly attributed to this permit, the permittee shall pay the Director the cost of such additional repair or the Director may require the permittee to make the repair. (Highway Permit Ordinance Section 16.14.040)

3. Authorization for excavations for removal or construction of substructures by this permit require the Permittee to receive a "Ticket Number" from Underground Service Alert, telephone number 1-800-422-4133, and said "Ticket Number" is entered on the face of the permit by the permittee. Underground Service Alert requires a minimum of 48 hours notice prior to the beginning of excavation to verify the location of existing underground facilities, "GREENBOOK" (Section 5)

TRAFFIC REQUIREMENTS

1. Special Traffic Control Provisions must comply with current "GREENBOOK" (Section 7-10) and "GRAYBOOK" (Section 7-10.3.1) requirements unless a specific control plan is approved as part of the permit.

2. No roadway shall be closed without prior approval of the Director or authorized representative. An application, along with a traffic control plan prepared by a registered civil engineer, must be submitted to the County of Los Angeles Department of Public Works, Attention: Construction Division - Permits, P.O. Box 1460, Alhambra, CA 91802-1460.

3. Streets to be posted as, "TEMPORARY NO PARKING", must be posted at least 48 hours prior to start date. Only County approved "TEMPORARY NO PARKING" signs shall be used, otherwise local parking enforcement agencies may not cite vehicle and /or have the vehicle removed. Signs are available for purchase at each Department of Public Works Permit Office.

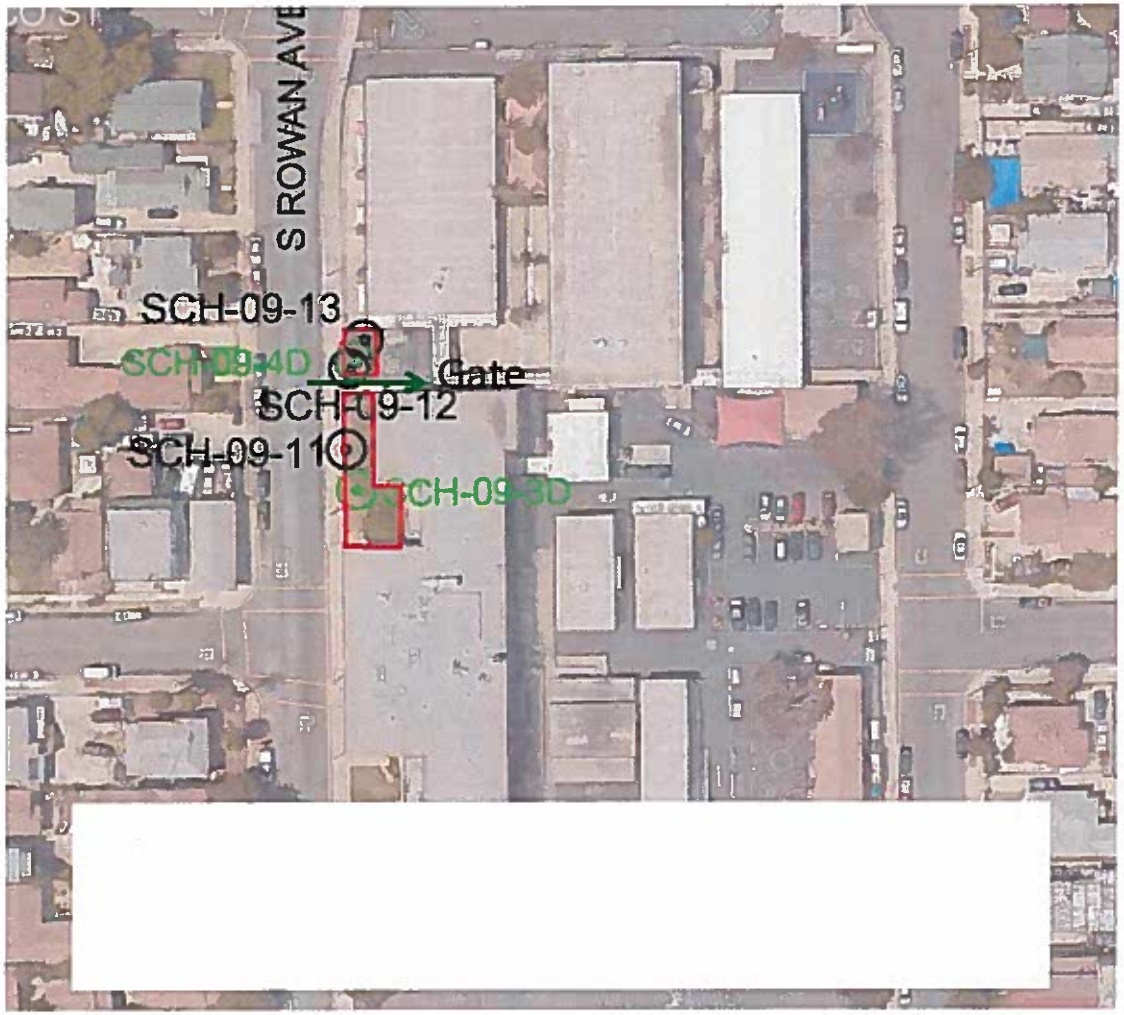
REQUIREMENTS FOR PAVEMENT RESURFACING IN HIGHWAY PERMITTEE TO REPAIR

1. Installation of temporary or new pavement resurfacing must comply with applicable subsections of the current "GREENBOOK" and "GRAYBOOK" (Sections 302-5, 302-6 and 303-5).

CUSTOMER COPY

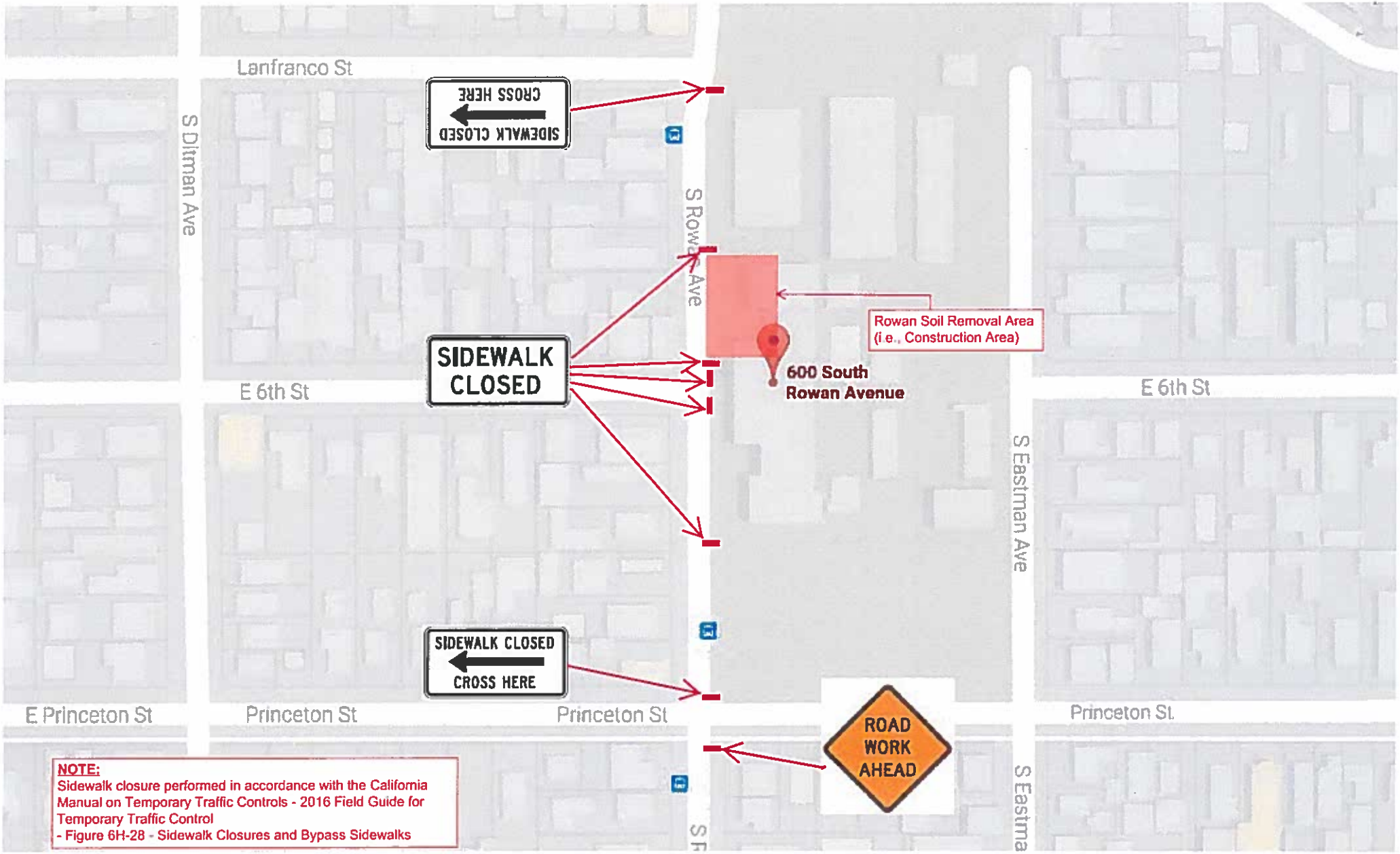
NOTE: THIS DRAWING IS ATTACHED TO AND MADE PART OF PERMIT NO. 20160284Z
ANY DEVIATION FROM THE ATTACHED DRAWING WITHOUT WRITTEN AUTHORIZATION FROM THIS DEPARTMENT WILL VOID THIS PERMIT.

Rowan Soil Removal Area



- Exclusion Zone Setup
- Dust Control
- Sidewalk Closure
- Geofabric

FOR INFORMATION PURPOSES ONLY



Notes for Figure 6H-28—Typical Application 28
Sidewalk Closures and Bypass Sidewalks

Standard:

1. **When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.**

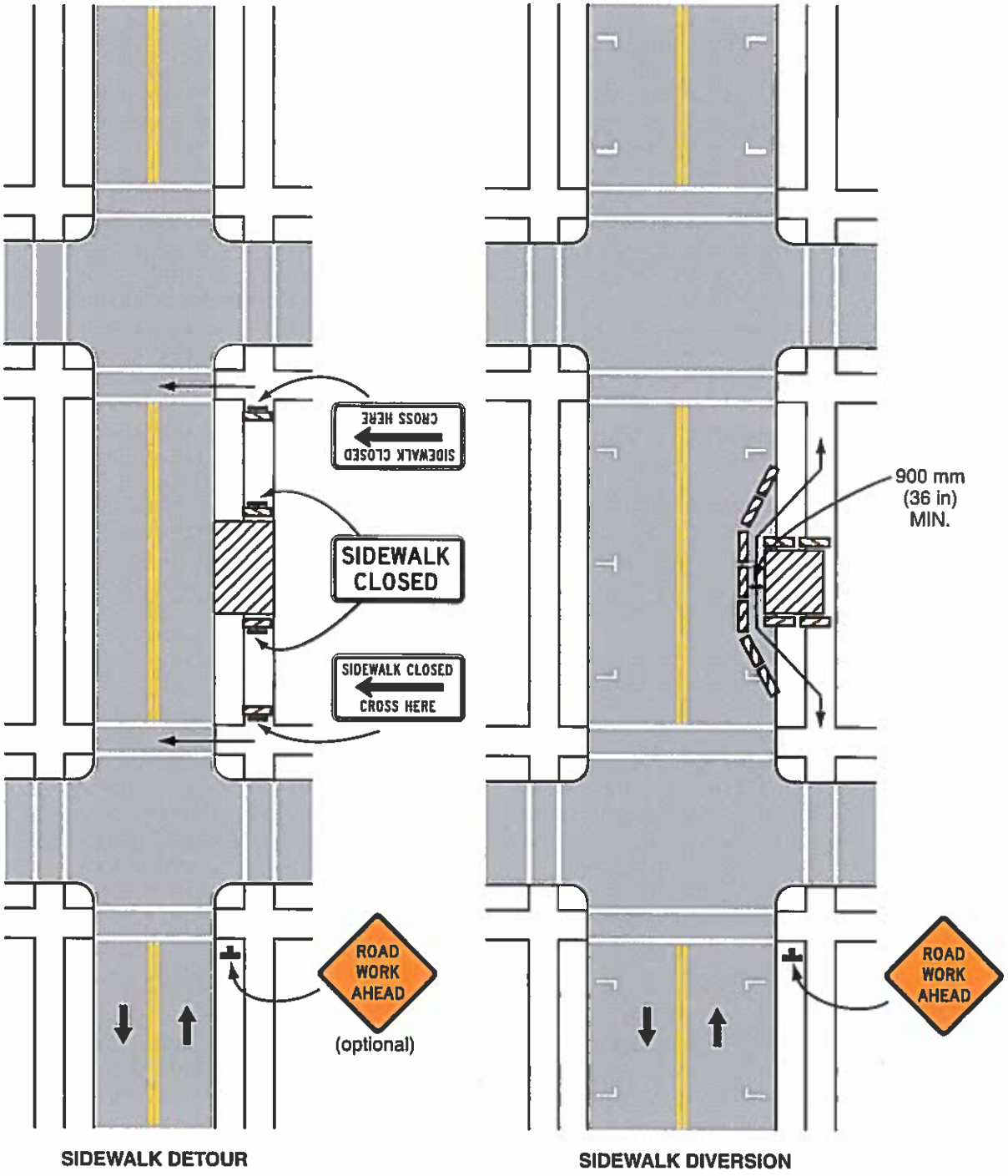
Guidance:

2. Where high speeds are anticipated, a temporary traffic barrier and, if necessary, a crash cushion should be used to separate the temporary sidewalks from vehicular traffic.
3. Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.

Option:

4. Street lighting may be considered.
5. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS signs, may be used to control vehicular traffic.
6. For nighttime closures, Type A Flashing warning lights may be used on barricades that support signs and close sidewalks.
7. Type C Steady-Burn or Type D 360-degree Steady-Burn warning lights may be used on channelizing devices separating the temporary sidewalks from vehicular traffic flow.
8. Signs, such as KEEP RIGHT (LEFT), may be placed along a temporary sidewalk to guide or direct pedestrians.

Figure 6H-28. Sidewalk Detour or Diversion (TA-28)



Typical Application 28

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Los Angeles Unified School District

Office of Environmental Health and Safety

September 13, 2016
Los Angeles County DPW
Building and Safety
900 South Fremont Ave, 3rd Floor
Alhambra, CA 91803

REQUEST TO PERFORM EXCAVATION ACTIVITIES ON SUNDAY

Los Angeles Unified School District (LAUSD) is proposing to conduct soil excavation activities at the Rowan Avenue Elementary School to remove lead-impacted soil. The work is being performed in accordance with the Department of Toxic Substances Control (DTSC) determination and for the protection of the public, school staff, and students.

Because of school activities, the excavation must take place over weekends. LAUSD proposes to complete the excavation activities the weekend of October 1, 2016 and hereby request permission to work on Sunday October 2, 2016.

Sincerely,

Anthony Espinoza
333 S. Beaudry Ave, 21st Floor
Los Angeles, CA 90017
Anthony.espinoza@lausd.net
213-241-5487

County of Los Angeles
Department of Public Works
www.dpw.lacounty.gov

KENNETH PARHAM JR.
Construction Inspector
LAND DEVELOPMENT DIVISION

Hollydale Permit Office (PO-4)
11282 South Garfield Avenue
Downey, CA 90242

Office: (562) 861-3580
Fax: (562) 869-0218
kparham@dpw.lacounty.gov

ATTACHMENT C

Dust Monitoring Records

RES Environmental Inc.

TAILGATE SAFETY MEETING

DATE: 10-1-16

TIME: 0730

LOCATION: ROWAN ELEMENTARY

HELD BY: NICHOLAS HERSHEY

SAFETY RULES:

1. Speed Limits
2. Steep Slopes
3. Seat Belts
4. Proper Protective Gear
5. Slip, Trip, Fall Hazards
6. Ruts or Holes in Roads
7. Busy Trash Haul Roads
8. Loose Ground Cover
9. Tall Weeds & Brush
10. Heavy Equipment Traveling
11. Snakes

COMMENTS:

PRINT YOUR NAME	SIGNATURE
NICHOLAS HERSHEY	

DAILY MONITORING LOG – DUST MONITORING ROWAN ELEMENTARY SCHOOL

Date: 10-1-16

Location:

Instrument: PDR 1000

Readings by: NICHOLAS HERSHEY

	Wind	U	D	D	D	DW-UW	DW-UW	DW-UW	
Time	Wind Speed & Wind Direction	Site #1 Upwind Reading (mg/m^3) Unit # 1	Site #2 Downwind Reading (mg/m^3) Unit # 2	Site #3 Downwind Reading (mg/m^3) Unit # 3	Site #HH-1 Downwind Reading (mg/m^3) Unit # HH-1	Site #2 Downwind - Upwind (mg/m^3)	Site #3 Downwind - Upwind (mg/m^3)	Site #HH-1 Downwind - Upwind (mg/m^3)	Comments
0830	3 SE	0.036	0.058	0.053	0.049	0.022	0.017	0.013	
0900	2 SE	0.023	0.058	0.041	0.043	0.035	0.018	0.020	
0930	3 E	0.038	0.054	0.039	0.044	0.016	0.001	0.006	
1000	4 ENE	0.039	0.050	0.057	0.051	0.011	0.018	0.012	
1030	4 E	0.040	0.052	0.054	0.048	0.012	0.014	0.008	
1100	2 ESE	0.025	0.053	0.0600	0.064	0.028	0.035	0.039	
1200	4 SE	0.013	0.031	0.056	0.048	0.018	0.043	0.035	
1230	4 S	0.018	0.034	0.049	0.044	0.016	0.031	0.026	
1300	4 SSE	0.007	0.024	0.024	0.032	0.017	0.017	0.025	
1330	4 S	0.018	0.045	0.023	0.015	0.027	0.005	(0.003)	
1400	7 SW	0.024	0.039	0.056	0.015	0.015	0.032	(0.009)	
1430	6 SW	0.031	0.036	0.043	0.057	0.005	0.012	0.026	
1500	8 SW	0.037	0.041	0.042	0.051	0.004	0.005	0.014	
1530	8 SW	0.024	0.038	0.040	0.049	0.014	0.016	0.025	

RES Environmental Inc.

ROWAN ELEMENTARY SCHOOL

DAILY CALIBRATION LOG

(DUST)

Manufacturer: MIE Personal Data RAM

Model: PDR-1000

Note: All values for unit under test are in mg/m^3. Values for Standard are shown.

Unit #	Zero Process	Standard (bag)	Ambient (out of bag)	Charge (%)
1 3698	OK	0.000	0.034	99%
2 4966	OK	0.000	0.035	68%
3 6015	OK	0.000	0.043	69%
HH-1 4635	OK	0.000	0.036	60%

THIS INSTRUMENT HAS BEEN CALIBRATED IN ACCORDANCE WITH THE MANUFACTURER'S PROCEDURES AS DETAILED IN THE OPERATIONS MANUAL.

NICHOLAS HERSHEY
CALIBRATED BY

10-1-16
CALIBRATION DATE

AECOM
ROWAN ELEMENTARY
SITE#1 UPWIND
pDR ID: UNIT#1
Tag Number: 01
Number of logged points: 30
Start time and date: 07:51:16 01-Oct
Elapsed time: 07:30:00
Logging period (sec): 900
Calibration Factor (%): 100
Max Display Concentration: 0.146 mg/m3
Time at maximum: 11:35:32 Oct 01
Max STEL Concentration: 0.042 mg/m3
Time at max STEL: 10:00:16 Oct 01
Overall Avg Conc: 0.027 mg/m3
Logged Data:

Point	Date	Time	Avg.(mg/m3)
1	01 Oct	08:06:16	0.039
2	01 Oct	08:21:16	0.040
3	01 Oct	08:36:16	0.036
4	01 Oct	08:51:16	0.033
5	01 Oct	09:06:16	0.033
6	01 Oct	09:21:16	0.040
7	01 Oct	09:36:16	0.039
8	01 Oct	09:51:16	0.039
9	01 Oct	10:06:16	0.039
10	01 Oct	10:21:16	0.034
11	01 Oct	10:36:16	0.031
12	01 Oct	10:51:16	0.037
13	01 Oct	11:06:16	0.032
14	01 Oct	11:21:16	0.025
15	01 Oct	11:36:16	0.024
16	01 Oct	11:51:16	0.019
17	01 Oct	12:06:16	0.015
18	01 Oct	12:21:16	0.015
19	01 Oct	12:36:16	0.013
20	01 Oct	12:51:16	0.011
21	01 Oct	13:06:16	0.009
22	01 Oct	13:21:16	0.011
23	01 Oct	13:36:16	0.013
24	01 Oct	13:51:16	0.020
25	01 Oct	14:06:16	0.025
26	01 Oct	14:21:16	0.026
27	01 Oct	14:36:16	0.027
28	01 Oct	14:51:16	0.029
29	01 Oct	15:06:16	0.029
30	01 Oct	15:21:16	0.027

AECOM
ROWAN ELEMENTARY
SITE#2 DOWNWIND
pDR ID: UNIT#2
Tag Number: 01
Number of logged points: 29
Start time and date: 08:14:50 01-Oct
Elapsed time: 07:15:00
Logging period (sec): 900
Calibration Factor (%): 100
Max Display Concentration: 0.472 mg/m3
Time at maximum: 12:41:31 Oct 01
Max STEL Concentration: 0.105 mg/m3
Time at max STEL: 13:56:21 Oct 01
Overall Avg Conc: 0.020 mg/m3
Logged Data:

Point	Date	Time	Avg.(mg/m3)
1	01 Oct	08:29:50	0.057
2	01 Oct	08:44:50	0.059
3	01 Oct	08:59:50	0.059
4	01 Oct	09:14:50	0.054
5	01 Oct	09:29:50	0.057
6	01 Oct	09:44:50	0.059
7	01 Oct	09:59:50	0.059
8	01 Oct	10:14:50	0.049
9	01 Oct	10:29:50	0.054
10	01 Oct	10:44:50	0.045
11	01 Oct	10:59:50	0.048
12	01 Oct	11:14:50	0.050
13	01 Oct	11:29:50	0.040
14	01 Oct	11:44:50	0.037
15	01 Oct	11:59:50	0.051
16	01 Oct	12:14:50	0.031
17	01 Oct	12:29:50	0.030
18	01 Oct	12:44:50	0.053
19	01 Oct	12:59:50	0.063
20	01 Oct	13:14:50	0.047
21	01 Oct	13:29:50	0.040
22	01 Oct	13:44:50	0.063
23	01 Oct	13:59:50	0.101
24	01 Oct	14:14:50	0.081
25	01 Oct	14:29:50	0.072
26	01 Oct	14:44:50	0.095
27	01 Oct	14:59:50	0.082
28	01 Oct	15:14:50	0.060
29	01 Oct	15:29:50	0.051

AECOM
ROWAN ELEMENTARY
SITE#3 DOWNWIND
pDR ID: UNIT#3
Tag Number: 01
Number of logged points: 28
Start time and date: 08:16:32 01-Oct
Elapsed time: 07:00:00
Logging period (sec): 900
Calibration Factor (%): 100
Max Display Concentration: 1.816 mg/m3
Time at maximum: 13:27:43 Oct 01
Max STEL Concentration: 0.093 mg/m3
Time at max STEL: 13:31:33 Oct 01
Overall Avg Conc: 0.052 mg/m3
Logged Data:

Point	Date	Time	Avg.(mg/m3)
1	01 Oct	08:31:32	0.052
2	01 Oct	08:46:32	0.056
3	01 Oct	09:01:32	0.052
4	01 Oct	09:16:32	0.049
5	01 Oct	09:31:32	0.057
6	01 Oct	09:46:32	0.062
7	01 Oct	10:01:32	0.056
8	01 Oct	10:16:32	0.047
9	01 Oct	10:31:32	0.051
10	01 Oct	10:46:32	0.073
11	01 Oct	11:01:32	0.063
12	01 Oct	11:16:32	0.048
13	01 Oct	11:31:32	0.041
14	01 Oct	11:46:32	0.052
15	01 Oct	12:01:32	0.031
16	01 Oct	12:16:32	0.025
17	01 Oct	12:31:32	0.022
18	01 Oct	12:46:32	0.031
19	01 Oct	13:01:32	0.075
20	01 Oct	13:16:32	0.047
21	01 Oct	13:31:32	0.093
22	01 Oct	13:46:32	0.051
23	01 Oct	14:01:32	0.054
24	01 Oct	14:16:32	0.050
25	01 Oct	14:31:32	0.083
26	01 Oct	14:46:32	0.043
27	01 Oct	15:01:32	0.043
28	01 Oct	15:16:32	0.046

AECOM
ROWAN ELEMENTARY
SITE#HH DOWNWIND
pDR ID: UNIT#4
Tag Number: 01
Number of logged points: 28
Start time and date: 08:16:57 01-Oct
Elapsed time: 07:00:00
Logging period (sec): 900
Calibration Factor (%): 100
Max Display Concentration: 1.996 mg/m3
Time at maximum: 12:54:38 Oct 01
Max STEL Concentration: 0.105 mg/m3
Time at max STEL: 10:31:57 Oct 01
Overall Avg Conc: 0.044 mg/m3
Logged Data:

Point	Date	Time	Avg.(mg/m3)
1	01 Oct	08:31:57	0.051
2	01 Oct	08:46:57	0.054
3	01 Oct	09:01:57	0.042
4	01 Oct	09:16:57	0.055
5	01 Oct	09:31:57	0.051
6	01 Oct	09:46:57	0.054
7	01 Oct	10:01:57	0.092
8	01 Oct	10:16:57	0.041
9	01 Oct	10:31:57	0.105
10	01 Oct	10:46:57	0.067
11	01 Oct	11:01:57	0.089
12	01 Oct	11:16:57	0.053
13	01 Oct	11:31:57	0.066
14	01 Oct	11:46:57	0.057
15	01 Oct	12:01:57	0.044
16	01 Oct	12:16:57	0.020
17	01 Oct	12:31:57	0.017
18	01 Oct	12:46:57	0.028
19	01 Oct	13:01:57	0.057
20	01 Oct	13:16:57	0.013
21	01 Oct	13:31:57	0.020
22	01 Oct	13:46:57	0.019
23	01 Oct	14:01:57	0.028
24	01 Oct	14:16:57	0.025
25	01 Oct	14:31:57	0.026
26	01 Oct	14:46:57	0.027
27	01 Oct	15:01:57	0.027
28	01 Oct	15:16:57	0.027

10-1-16

Source: Google Earth, 2016

LEGEND

- SOIL SAMPLE LOCATIONS, 2015
- SOIL SAMPLE LOCATIONS, Aug. 2016

0 150

APPROXIMATE SCALE IN FEET

N

ROWAN ES SOIL REMOVAL AREA

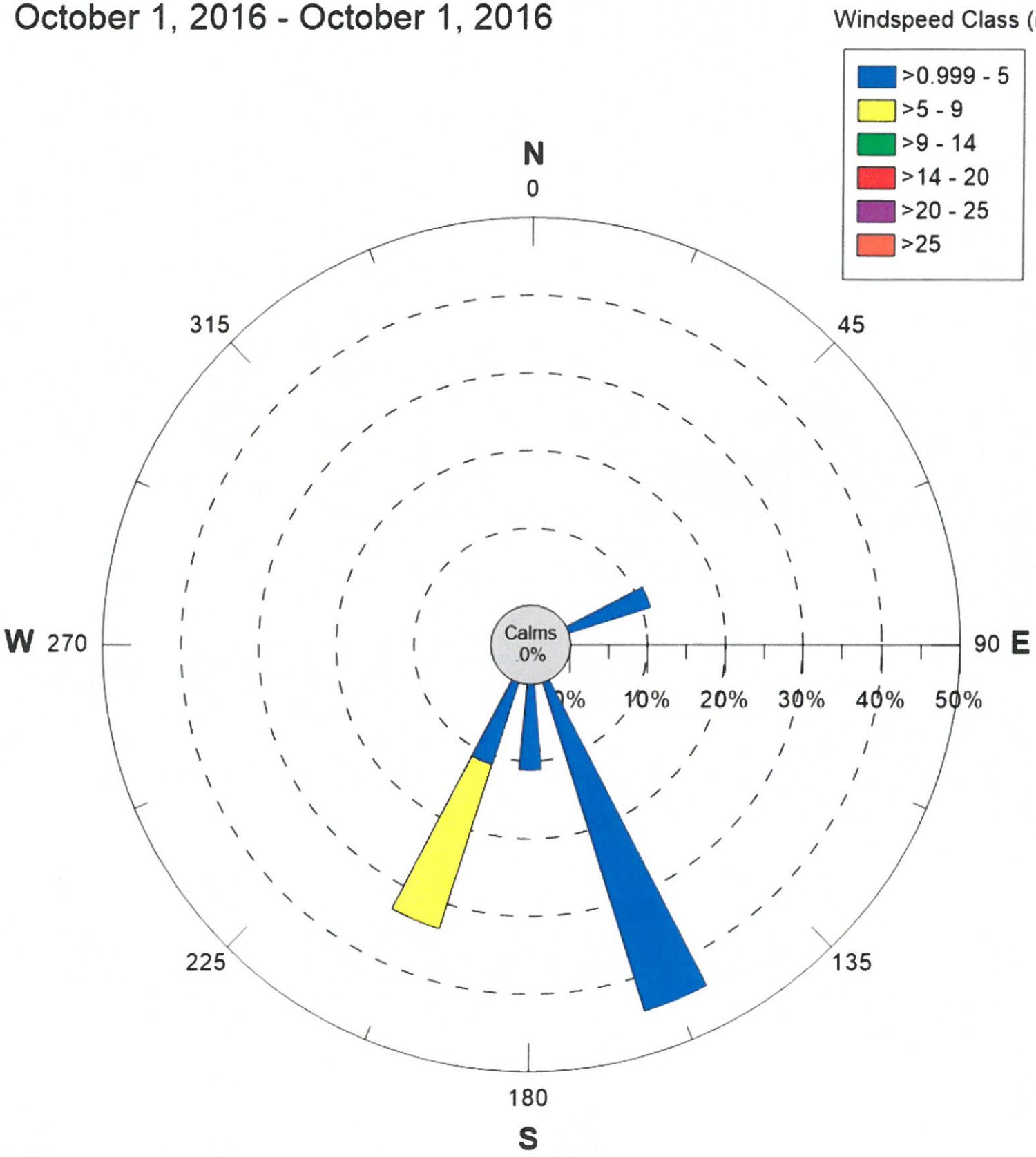
CLIENT: LAUSD

LOCATION: Rowan Avenue Elementary School
600 South Rowan Avenue, Los Angeles, CA

AECOM

FIGURE: 1

ROWAN ELEMENTARY 10-1-16
October 1, 2016 - October 1, 2016



Times from 0700 to 1500
All Speeds Used

ROWAN ELEMENTARY 10-1-16

Wind Direction in Degrees and Wind Speed in MPH for OCTOBER 1 to 1, 2016

HOUR	01	02	03	04	05	06	07	08	09	10	11	12	13
DAY	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V
01							067 03.0	157 03.0	157 04.0	157 04.0	202 04.0	157 04.0	180 04.0
02													
03													
04													
05													
06													
07													
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31													
MEAN							067 03.0	157 03.0	157 04.0	157 04.0	202 04.0	157 04.0	180 04.0
MX SPD							067 03.0	157 03.0	157 04.0	157 04.0	202 04.0	157 04.0	180 04.0
MN SPD							067 03.0	157 03.0	157 04.0	157 04.0	202 04.0	157 04.0	180 04.0

DAILY MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

DDD = Direction from which the wind is blowing, in degrees
VV.V = Wind Speed in MPH

Wind Direction in Degrees and Wind Speed in MPH for OCTOBER 1 to 1, 2016 PAGE 2

HOUR DAY	14 DDD VV.V	15 DDD VV.V	16 DDD VV.V	17 DDD VV.V	18 DDD VV.V	19 DDD VV.V	20 DDD VV.V	21 DDD VV.V	22 DDD VV.V	23 DDD VV.V	24 DDD VV.V	MEAN DDD VV.V	MX SPD DDD VV.V	MN SPD DDD VV.V
01	202 06.0	202 07.0											202 07.0	067 03.0
02														
03														
04														
05														
06														
07														
08														
09														
10														
11														
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25														
26														
27														
28														
29														
30														
31														
MEAN	202 06.0	202 07.0										169 04.3		
MX SPD	202 06.0	202 07.0											202 07.0	
MN SPD	202 06.0	202 07.0												067 03.0

POSSIBLE NUMBER OF OBSERVATIONS = 24 TOTAL NUMBER OF OBSERVATIONS = 9 DATA RECOVERY RATE = 37.5%

MONTHLY MEAN = 169 04.3 MAXIMUM WIND SPEED WAS 7MPH AT 202DEGREES ON 10/ 1 AT 1500

DAILY MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

DDD = Direction from which the wind is blowing, in degrees
VV.V = Wind Speed in MPH

ROWAN ELEMENTARY 10-1-16
Joint Frequency Distribution
Times from 0700 to 1500, All Speeds Used, All Stabilities Used

Wind Direction	Wind Speed (MPH) 1-5	5.1-9	9.1-14	14.1-20	20.1-25	Over 25	Total	Avg Speed
N	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	11.1	.0	.0	.0	.0	.0	11.1	3.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	44.4	.0	.0	.0	.0	.0	44.4	3.8
S	11.1	.0	.0	.0	.0	.0	11.1	4.0
SSW	11.1	22.2	.0	.0	.0	.0	33.3	5.7
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0
Calm							.0	
Total	77.8	22.2	.0	.0	.0	.0	100.0	4.3

Data spans October 1, 2016 at 700 to October 1, 2016 at 1500 (9 valid cases)

RES Environmental Inc.

TAILGATE SAFETY MEETING

DATE: 10-2-16

TIME: 0730

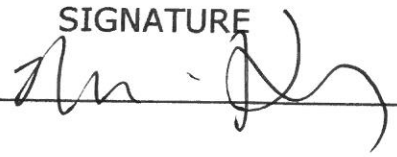
LOCATION: ROWAN ELEMENTARY

HELD BY: NICHOLAS HERSHEY

SAFETY RULES:

1. Speed Limits
2. Steep Slopes
3. Seat Belts
4. Proper Protective Gear
5. Slip, Trip, Fall Hazards
6. Ruts or Holes in Roads
7. Busy Trash Haul Roads
8. Loose Ground Cover
9. Tall Weeds & Brush
10. Heavy Equipment Traveling
11. Snakes

COMMENTS:

PRINT YOUR NAME	SIGNATURE
NICHOLAS HERSHEY	

DAILY MONITORING LOG – DUST MONITORING ROWAN ELEMENTARY SCHOOL

Date: 10-2-16

Location:

Instrument: PDR 1000

Readings by: NICHOLAS HERSHEY

	Wind	U	D	D	D	DW-UW	DW-UW	DW-UW	
Time	Wind Speed & Wind Direction	Site #1 Upwind Reading (mg/m^3) Unit # 1	Site #2 Downwind Reading (mg/m^3) Unit # 2	Site #3 Downwind Reading (mg/m^3) Unit # 3	Site #HH-1 Downwind Reading (mg/m^3) Unit # HH-1	Site #2 Downwind - Upwind (mg/m^3)	Site #3 Downwind - Upwind (mg/m^3)	Site #HH-1 Downwind - Upwind (mg/m^3)	Comments
0800	2 E	0.068	0.062	0.063	0.061	(0.006)	(0.005)	(0.007)	
0830	1 E	0.043	0.044	0.044	0.048	0.001	0.001	0.005	
0900	2 SE	0.048	0.034	0.024	0.035	(0.014)	(0.024)	(0.013)	
0930	3 E	0.020	0.037	0.031	0.030	0.017	0.011	0.010	
1000	4 E	0.031	0.027	0.037	0.024	(0.004)	0.006	(0.007)	
1030	3 ESE	0.032	0.023	0.023	0.025	(0.009)	(0.009)	(0.007)	
1100	3 SE	0.029	0.024	0.030	0.027	(0.005)	0.001	(0.002)	
1130	3 E	0.018	0.024	0.021	0.022	0.006	0.003	0.004	
1200	4 SE	0.015	0.036	0.033	0.038	0.021	0.018	0.023	
1230	3 SE	0.007	0.047	0.042	0.046	0.040	0.035	0.039	
1300	4 SE	0.009	0.038	0.024	0.038	0.029	0.015	0.029	
1330	10 SW	0.016	0.032	0.033	0.017	0.016	0.017	0.001	
1400	9 SSW	0.017	0.035	0.063	0.042	0.018	0.046	0.025	
1430	9 SSW	0.019	0.032	0.060	0.049	0.013	0.041	0.030	
1500	6 SSW	0.017	0.039	0.062	0.045	0.022	0.045	0.028	
1530	10 SSW	0.024	0.053	0.070	0.018	0.029	0.046	(0.006)	
1600	11 SW	0.018	0.040	0.051	0.023	0.022	0.033	0.005	
1630	9 SW	0.009	0.029	0.043	0.021	0.020	0.034	0.012	
1700	9 SW	0.014	0.029	0.036	0.020	0.015	0.022	0.006	

RES Environmental Inc.

ROWAN ELEMENTARY SCHOOL

DAILY CALIBRATION LOG

(DUST)

Manufacturer: MIE Personal Data RAM

Model: PDR-1000

Note: All values for unit under test are in mg/m^3. Values for Standard are shown.

Unit #	Zero Process	Standard (bag)	Ambient (out of bag)	Charge (%)
1 3698	OK	0.000	0.048	97%
2 4966	OK	0.000	0.049	98%
3 6615	OK	0.000	0.055	96%
HH-1 4635	OK	0.000	0.049	99%

THIS INSTRUMENT HAS BEEN CALIBRATED IN ACCORDANCE WITH THE MANUFACTURER'S PROCEDURES AS DETAILED IN THE OPERATIONS MANUAL.

NICHOLAS HERSHEY
CALIBRATED BY

10-2-16
CALIBRATION DATE

AECOM
ROWAN ELEMENTARY
SITE#1 UPWIND
pDR ID: UNIT#1
Tag Number: 02
Number of logged points: 38
Start time and date: 07:27:25 02-Oct
Elapsed time: 09:30:00
Logging period (sec): 900
Calibration Factor (%): 100
Max Display Concentration: 0.292 mg/m3
Time at maximum: 16:58:57 Oct 02
Max STEL Concentration: 0.074 mg/m3
Time at max STEL: 07:52:25 Oct 02
Overall Avg Conc: 0.025 mg/m3
Logged Data:

Point	Date	Time	Avg.(mg/m3)
1	02 Oct	07:42:25	0.069
2	02 Oct	07:57:25	0.072
3	02 Oct	08:12:25	0.065
4	02 Oct	08:27:25	0.064
5	02 Oct	08:42:25	0.050
6	02 Oct	08:57:25	0.041
7	02 Oct	09:12:25	0.027
8	02 Oct	09:27:25	0.023
9	02 Oct	09:42:25	0.027
10	02 Oct	09:57:25	0.027
11	02 Oct	10:12:25	0.028
12	02 Oct	10:27:25	0.027
13	02 Oct	10:42:25	0.024
14	02 Oct	10:57:25	0.020
15	02 Oct	11:12:25	0.019
16	02 Oct	11:27:25	0.018
17	02 Oct	11:42:25	0.018
18	02 Oct	11:57:25	0.013
19	02 Oct	12:12:25	0.011
20	02 Oct	12:27:25	0.010
21	02 Oct	12:42:25	0.010
22	02 Oct	12:57:25	0.008
23	02 Oct	13:12:25	0.011
24	02 Oct	13:27:25	0.013
25	02 Oct	13:42:25	0.014
26	02 Oct	13:57:25	0.016
27	02 Oct	14:12:25	0.015
28	02 Oct	14:27:25	0.014
29	02 Oct	14:42:25	0.016
30	02 Oct	14:57:25	0.017
31	02 Oct	15:12:25	0.016

32,	02 Oct,	15:27:25,	0.017
33,	02 Oct,	15:42:25,	0.017
34,	02 Oct,	15:57:25,	0.018
35,	02 Oct,	16:12:25,	0.018
36,	02 Oct,	16:27:25,	0.019
37,	02 Oct,	16:42:25,	0.019
38,	02 Oct,	16:57:25,	0.018

AECOM
ROWAN ELEMENTARY
SITE#2 DOWNWIND
pDR ID: UNIT#2
Tag Number: 02
Number of logged points: 37
Start time and date: 07:31:00 02-Oct
Elapsed time: 09:15:00
Logging period (sec): 900
Calibration Factor (%): 100
Max Display Concentration: 1.773 mg/m3
Time at maximum: 10:30:23 Oct 02
Max STEL Concentration: 0.333 mg/m3
Time at max STEL: 16:41:02 Oct 02
Overall Avg Conc: 0.059 mg/m3
Logged Data:

Point	Date	Time	Avg.(mg/m3)
1	02 Oct	07:46:00	0.063
2	02 Oct	08:01:00	0.065
3	02 Oct	08:16:00	0.070
4	02 Oct	08:31:00	0.058
5	02 Oct	08:46:00	0.043
6	02 Oct	09:01:00	0.042
7	02 Oct	09:16:00	0.041
8	02 Oct	09:31:00	0.036
9	02 Oct	09:46:00	0.035
10	02 Oct	10:01:00	0.030
11	02 Oct	10:16:00	0.029
12	02 Oct	10:31:00	0.070
13	02 Oct	10:46:00	0.031
14	02 Oct	11:01:00	0.027
15	02 Oct	11:16:00	0.025
16	02 Oct	11:31:00	0.025
17	02 Oct	11:46:00	0.027
18	02 Oct	12:01:00	0.025
19	02 Oct	12:16:00	0.023
20	02 Oct	12:31:00	0.036
21	02 Oct	12:46:00	0.040
22	02 Oct	13:01:00	0.058
23	02 Oct	13:16:00	0.034
24	02 Oct	13:31:00	0.047
25	02 Oct	13:46:00	0.080
26	02 Oct	14:01:00	0.060
27	02 Oct	14:16:00	0.046
28	02 Oct	14:31:00	0.066
29	02 Oct	14:46:00	0.053
30	02 Oct	15:01:00	0.069
31	02 Oct	15:16:00	0.053

32,	02 Oct,	15:31:00,	0.058
33,	02 Oct,	15:46:00,	0.060
34,	02 Oct,	16:01:00,	0.040
35,	02 Oct,	16:16:00,	0.049
36,	02 Oct,	16:31:00,	0.156
37,	02 Oct,	16:46:00,	0.268

AECOM
ROWAN ELEMENTARY
SITE#3 DOWNWIND
pDR ID: UNIT#3
Tag Number: 02
Number of logged points: 37
Start time and date: 07:31:24 02-Oct
Elapsed time: 09:15:00
Logging period (sec): 900
Calibration Factor (%): 100
Max Display Concentration: 1.225 mg/m3
Time at maximum: 14:18:53 Oct 02
Max STEL Concentration: 0.206 mg/m3
Time at max STEL: 14:26:55 Oct 02
Overall Avg Conc: 0.056 mg/m3
Logged Data:

Point	Date	Time	Avg.(mg/m3)
1	02 Oct	07:46:24	0.066
2	02 Oct	08:01:24	0.067
3	02 Oct	08:16:24	0.065
4	02 Oct	08:31:24	0.054
5	02 Oct	08:46:24	0.036
6	02 Oct	09:01:24	0.037
7	02 Oct	09:16:24	0.031
8	02 Oct	09:31:24	0.030
9	02 Oct	09:46:24	0.059
10	02 Oct	10:01:24	0.029
11	02 Oct	10:16:24	0.043
12	02 Oct	10:31:24	0.039
13	02 Oct	10:46:24	0.029
14	02 Oct	11:01:24	0.026
15	02 Oct	11:16:24	0.024
16	02 Oct	11:31:24	0.026
17	02 Oct	11:46:24	0.027
18	02 Oct	12:01:24	0.021
19	02 Oct	12:16:24	0.020
20	02 Oct	12:31:24	0.019
21	02 Oct	12:46:24	0.025
22	02 Oct	13:01:24	0.021
23	02 Oct	13:16:24	0.028
24	02 Oct	13:31:24	0.050
25	02 Oct	13:46:24	0.077
26	02 Oct	14:01:24	0.061
27	02 Oct	14:16:24	0.115
28	02 Oct	14:31:24	0.194
29	02 Oct	14:46:24	0.067
30	02 Oct	15:01:24	0.100
31	02 Oct	15:16:24	0.081

32, 02 Oct, 15:31:24, 0.114
33, 02 Oct, 15:46:24, 0.081
34, 02 Oct, 16:01:24, 0.088
35, 02 Oct, 16:16:24, 0.074
36, 02 Oct, 16:31:24, 0.074
37, 02 Oct, 16:46:24, 0.055

AECOM
ROWAN ELEMENTARY
SITE#HH DOWNWIND
pDR ID: UNIT#4
Tag Number: 02
Number of logged points: 38
Start time and date: 07:27:58 02-Oct
Elapsed time: 09:30:00
Logging period (sec): 900
Calibration Factor (%): 100
Max Display Concentration: 1.403 mg/m3
Time at maximum: 14:19:00 Oct 02
Max STEL Concentration: 0.202 mg/m3
Time at max STEL: 14:31:58 Oct 02
Overall Avg Conc: 0.041 mg/m3
Logged Data:

Point	Date	Time	Avg.(mg/m3)
1	02 Oct	07:42:58	0.062
2	02 Oct	07:57:58	0.083
3	02 Oct	08:12:58	0.070
4	02 Oct	08:27:58	0.062
5	02 Oct	08:42:58	0.061
6	02 Oct	08:57:58	0.041
7	02 Oct	09:12:58	0.040
8	02 Oct	09:27:58	0.044
9	02 Oct	09:42:58	0.091
10	02 Oct	09:57:58	0.021
11	02 Oct	10:12:58	0.025
12	02 Oct	10:27:58	0.024
13	02 Oct	10:42:58	0.055
14	02 Oct	10:57:58	0.030
15	02 Oct	11:12:58	0.011
16	02 Oct	11:27:58	0.014
17	02 Oct	11:42:58	0.012
18	02 Oct	11:57:58	0.009
19	02 Oct	12:12:58	0.007
20	02 Oct	12:27:58	0.012
21	02 Oct	12:42:58	0.043
22	02 Oct	12:57:58	0.038
23	02 Oct	13:12:58	0.018
24	02 Oct	13:27:58	0.045
25	02 Oct	13:42:58	0.092
26	02 Oct	13:57:58	0.070
27	02 Oct	14:12:58	0.092
28	02 Oct	14:27:58	0.173
29	02 Oct	14:42:58	0.096
30	02 Oct	14:57:58	0.015
31	02 Oct	15:12:58	0.012

32,	02 Oct,	15:27:58,	0.012
33,	02 Oct,	15:42:58,	0.013
34,	02 Oct,	15:57:58,	0.012
35,	02 Oct,	16:12:58,	0.010
36,	02 Oct,	16:27:58,	0.017
37,	02 Oct,	16:42:58,	0.012
38,	02 Oct,	16:57:58,	0.010

10-2-16

Source: Google Earth, 2016

LEGEND

- SOIL SAMPLE LOCATIONS, 2015
- SOIL SAMPLE LOCATIONS, Aug. 2016

0 150

APPROXIMATE SCALE IN FEET

N

ROWAN ES SOIL REMOVAL AREA

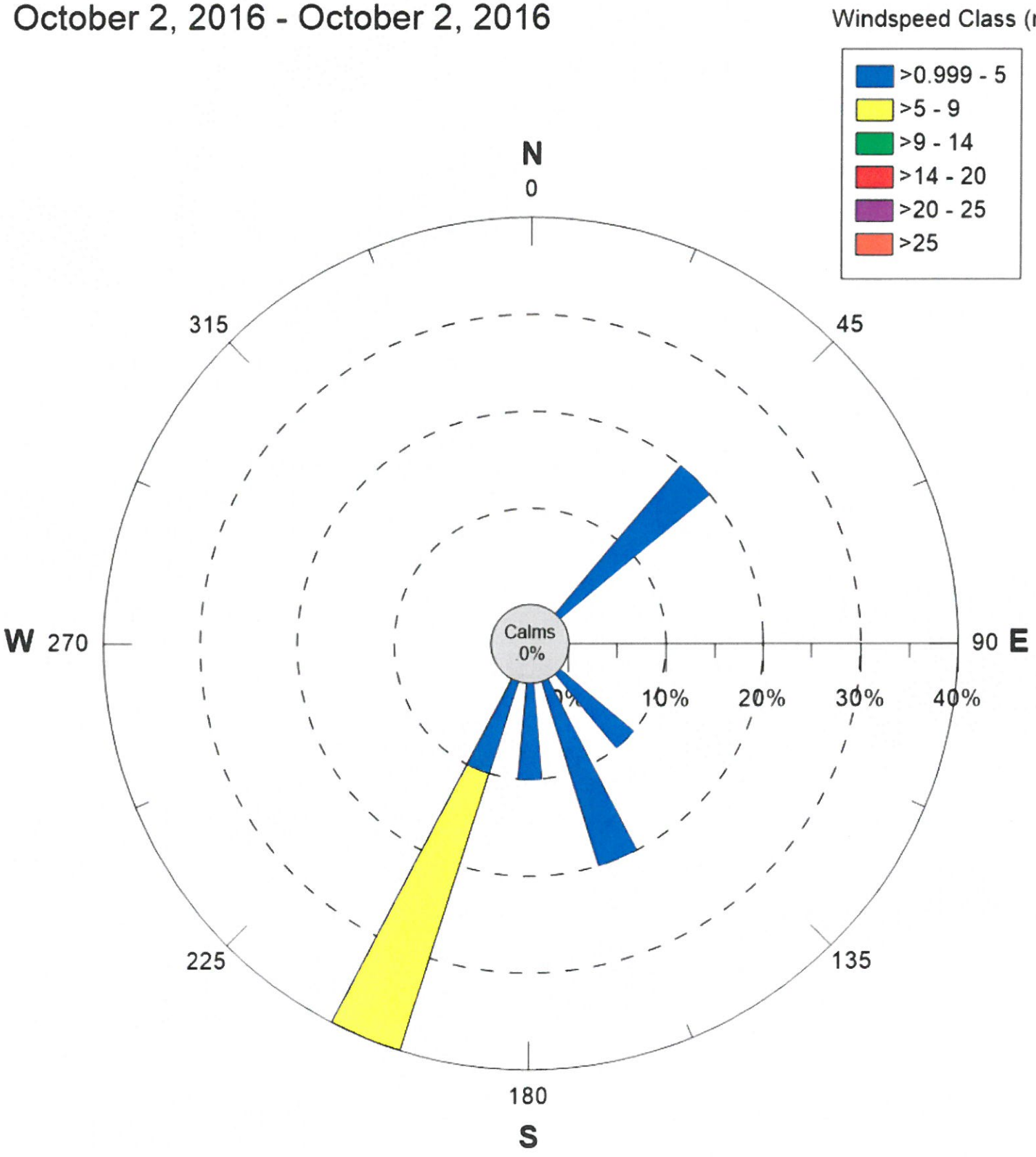
CLIENT: LAUSD

LOCATION: Rowan Avenue Elementary School
600 South Rowan Avenue, Los Angeles, CA

AECOM

FIGURE: 1

ROWAN ELEMENTARY 10-2-16
October 2, 2016 - October 2, 2016



Times from 0700 to 1600
All Speeds Used

ROWAN ELEMENTARY 10-2-16

Wind Direction in Degrees and Wind Speed in MPH for OCTOBER 2 to 2, 2016

HOUR	01	02	03	04	05	06	07	08	09	10	11	12	13
DAY	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V
01													
02							045 03.0	045 04.0	135 04.0	157 04.0	202 04.0	157 04.0	180 05.0
03													
04													
05													
06													
07													
08													
09													
10													
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24													
25													
26													
27													
28													
29													
30													
31													
MEAN							045 03.0	045 04.0	135 04.0	157 04.0	202 04.0	157 04.0	180 05.0
MX SPD							045 03.0	045 04.0	135 04.0	157 04.0	202 04.0	157 04.0	180 05.0
MN SPD							045 03.0	045 04.0	135 04.0	157 04.0	202 04.0	157 04.0	180 05.0

DAILY MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

DDD = Direction from which the wind is blowing, in degrees
VV.V = Wind Speed in MPH

Wind Direction in Degrees and Wind Speed in MPH for OCTOBER 2 to 2, 2016 PAGE 2

HOUR DAY	14 DDD VV.V	15 DDD VV.V	16 DDD VV.V	17 DDD VV.V	18 DDD VV.V	19 DDD VV.V	20 DDD VV.V	21 DDD VV.V	22 DDD VV.V	23 DDD VV.V	24 DDD VV.V	MEAN DDD VV.V	MX SPD DDD VV.V	MN SPD DDD VV.V
01														
02	202 06.0	202 07.0	202 07.0										202 07.0	045 03.0
03														
04														
05														
06														
07														
08														
09														
10														
11														
12														
13														
14														
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20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
MEAN	202 06.0	202 07.0	202 07.0									166 04.8		
MX SPD	202 06.0	202 07.0	202 07.0										202 07.0	
MN SPD	202 06.0	202 07.0	202 07.0											045 03.0

POSSIBLE NUMBER OF OBSERVATIONS = 10 TOTAL NUMBER OF OBSERVATIONS = 10 DATA RECOVERY RATE = 100%

MONTHLY MEAN = 166 04.8 MAXIMUM WIND SPEED WAS 7MPH AT 202DEGREES ON 10/ 2 AT 1500

DAILY MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

DDD = Direction from which the wind is blowing, in degrees
VV.V = Wind Speed in MPH

ROWAN ELEMENTARY 10-2-16
Joint Frequency Distribution
Times from 0700 to 1600, All Speeds Used, All Stabilities Used

Wind Direction	Wind Speed (MPH) 1-5	5.1-9	9.1-14	14.1-20	20.1-25	Over 25	Total	Avg Speed
N	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	20.0	.0	.0	.0	.0	.0	20.0	3.5
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	10.0	.0	.0	.0	.0	.0	10.0	4.0
SSE	20.0	.0	.0	.0	.0	.0	20.0	4.0
S	10.0	.0	.0	.0	.0	.0	10.0	5.0
SSW	10.0	30.0	.0	.0	.0	.0	40.0	6.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0
Calm							.0	
Total	70.0	30.0	.0	.0	.0	.0	100.0	4.8

Data spans October 2, 2016 at 700 to October 2, 2016 at 1600 (10 valid cases)

ATTACHMENT D

WASTE PROFILE ANALYTICAL LABORATORY REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-156772-1
Client Project/Site: LAUSD - Rowan/Lorena E.S.

For:
AECOM, Inc.
999 Town & Country Road
4th Floor
Orange, California 92868

Attn: Cynthia Shen

Authorized for release by:
9/2/2016 10:53:44 AM

Danielle Roberts, Senior Project Manager
(949)261-1022
danielle.roberts@testamericainc.com

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QC Association Summary 22
Definitions/Glossary 25
Certification Summary 26
Chain of Custody 27
Receipt Checklists 30

Sample Summary

Client: AECOM, Inc.
Project/Site: LAUSD - Rowan/Lorena E.S.

TestAmerica Job ID: 440-156772-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-156772-1	SCH-09-4DWP	Solid	08/27/16 08:20	08/27/16 15:00
440-156772-2	SCH-07-2DWP	Solid	08/27/16 09:00	08/27/16 15:00

Client: AECOM, Inc.
Project/Site: LAUSD - Rowan/Lorena E.S.

TestAmerica Job ID: 440-156772-1

Client Sample ID: SCH-09-4DWP
Date Collected: 08/27/16 08:20
Date Received: 08/27/16 15:00

Lab Sample ID: 440-156772-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
1,1,1-Trichloroethane	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
1,1,2-Trichloroethane	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
1,1-Dichloroethane	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
1,1-Dichloroethene	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
1,1-Dichloropropene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
1,2,3-Trichlorobenzene	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
1,2,3-Trichloropropane	ND		9.9	0.99	ug/Kg			08/29/16 14:23	1
1,2,4-Trichlorobenzene	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
1,2,4-Trimethylbenzene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			08/29/16 14:23	1
1,2-Dibromoethane (EDB)	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
1,2-Dichlorobenzene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
1,2-Dichloroethane	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
1,2-Dichloropropane	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
1,3,5-Trimethylbenzene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
1,3-Dichlorobenzene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
1,3-Dichloropropane	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
1,4-Dichlorobenzene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
2,2-Dichloropropane	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
2-Chlorotoluene	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
4-Chlorotoluene	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
Benzene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
Bromobenzene	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
Bromochloromethane	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
Bromodichloromethane	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
Bromoform	ND		5.0	2.0	ug/Kg			08/29/16 14:23	1
Bromomethane	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
Carbon tetrachloride	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
Chlorobenzene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
Chloroethane	ND		5.0	2.0	ug/Kg			08/29/16 14:23	1
Chloroform	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
Chloromethane	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
cis-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
cis-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
Dibromochloromethane	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
Dibromomethane	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			08/29/16 14:23	1
Ethylbenzene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
Hexachlorobutadiene	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
Isopropylbenzene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			08/29/16 14:23	1
Methylene Chloride	ND		20	5.0	ug/Kg			08/29/16 14:23	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/29/16 14:23	1
n-Butylbenzene	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
N-Propylbenzene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
o-Xylene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1

Client Sample ID: SCH-09-4DWP
Date Collected: 08/27/16 08:20
Date Received: 08/27/16 15:00

Lab Sample ID: 440-156772-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
Styrene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
Tert-amyl-methyl ether (TAME)	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
tert-Butylbenzene	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
Tetrachloroethene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
Toluene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
trans-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
trans-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
Trichloroethene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1
Trichlorofluoromethane	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
Vinyl chloride	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
Xylenes, Total	ND		4.0	2.0	ug/Kg			08/29/16 14:23	1
Isopropyl Ether (DIPE)	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	0.99	ug/Kg			08/29/16 14:23	1
tert-Butyl alcohol (TBA)	ND		99	9.9	ug/Kg			08/29/16 14:23	1
p-Isopropyltoluene	ND		2.0	0.99	ug/Kg			08/29/16 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*		*08/29/16 14:23*	*1*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*		*08/29/16 14:23*	*1*
Dibromofluoromethane (Surr)	*114*		*60 - 120*		*08/29/16 14:23*	*1*

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		4.9	2.4	mg/Kg		08/29/16 16:22	08/30/16 13:56	1
C23-C40	**47**		4.9	2.4	mg/Kg		08/29/16 16:22	08/30/16 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*53*		*40 - 140*	*08/29/16 16:22*	*08/30/16 13:56*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.0	0.37	mg/Kg		08/30/16 10:32	08/31/16 12:09	1
Arsenic	**12**		3.0	0.55	mg/Kg		08/30/16 10:32	08/31/16 12:09	1
Barium	**130**		5.0	0.099	mg/Kg		08/30/16 10:32	08/31/16 12:09	1
Beryllium	**2.2**		0.50	0.012	mg/Kg		08/30/16 10:32	08/31/16 12:09	1
Cadmium	**0.48**	**J B**	0.50	0.024	mg/Kg		08/30/16 10:32	08/31/16 12:09	1
Chromium	**22**		2.0	0.21	mg/Kg		08/30/16 10:32	08/31/16 12:09	1
Cobalt	**7.8**		2.0	0.054	mg/Kg		08/30/16 10:32	08/31/16 12:09	1
Copper	**26**		2.5	0.44	mg/Kg		08/30/16 10:32	08/31/16 12:09	1
Lead	**76**		0.99	0.14	mg/Kg		08/30/16 10:32	08/31/16 12:09	1
Molybdenum	**0.67**	**J B**	2.0	0.056	mg/Kg		08/30/16 10:32	08/31/16 12:09	1
Nickel	**12**		2.0	0.18	mg/Kg		08/30/16 10:32	08/31/16 12:09	1
Selenium	**1.7**	**J**	5.0	0.56	mg/Kg		08/30/16 10:32	08/31/16 12:09	1
Silver	**0.16**	**J**	2.5	0.14	mg/Kg		08/30/16 10:32	08/31/16 12:09	1
Thallium	ND		5.0	0.32	mg/Kg		08/30/16 10:32	08/31/16 12:09	1
Vanadium	**37**		0.99	0.52	mg/Kg		08/30/16 10:32	08/31/16 12:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.065**	**J B**	0.10	0.040	mg/L		08/30/16 20:18	08/31/16 15:08	1

Client: AECOM, Inc.
Project/Site: LAUSD - Rowan/Lorena E.S.

TestAmerica Job ID: 440-156772-1

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.0		0.10	0.080	mg/L			08/30/16 16:33	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.090	0.090	mg/Kg		08/30/16 15:38	08/31/16 12:06	1

Client Sample ID: SCH-07-2DWP

Lab Sample ID: 440-156772-2

Date Collected: 08/27/16 09:00

Matrix: Solid

Date Received: 08/27/16 15:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			08/29/16 12:58	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			08/29/16 12:58	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
Benzene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
Bromobenzene	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
Bromoform	ND		5.0	2.0	ug/Kg			08/29/16 12:58	1
Bromomethane	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
Chloroethane	ND		5.0	2.0	ug/Kg			08/29/16 12:58	1
Chloroform	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
Chloromethane	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
Dibromomethane	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			08/29/16 12:58	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1

Client Sample ID: SCH-07-2DWP
Date Collected: 08/27/16 09:00
Date Received: 08/27/16 15:00

Lab Sample ID: 440-156772-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		4.0	2.0	ug/Kg			08/29/16 12:58	1
Methylene Chloride	ND		20	5.0	ug/Kg			08/29/16 12:58	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/29/16 12:58	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
o-Xylene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
Styrene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
Tert-amyl-methyl ether (TAME)	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
Toluene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
Trichloroethene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
Xylenes, Total	ND		4.0	2.0	ug/Kg			08/29/16 12:58	1
Isopropyl Ether (DIPE)	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	1.0	ug/Kg			08/29/16 12:58	1
tert-Butyl alcohol (TBA)	ND		100	10	ug/Kg			08/29/16 12:58	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			08/29/16 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*79 - 123*		*08/29/16 12:58*	*1*
4-Bromofluorobenzene (Surr)	*96*		*79 - 120*		*08/29/16 12:58*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 120*		*08/29/16 12:58*	*1*

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		20	10	mg/Kg		08/29/16 16:22	08/30/16 16:30	1
C23-C40	**220**		20	10	mg/Kg		08/29/16 16:22	08/30/16 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*89*		*40 - 140*	*08/29/16 16:22*	*08/30/16 16:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.0	0.37	mg/Kg		08/30/16 10:32	08/31/16 12:14	1
Arsenic	**13**		3.0	0.55	mg/Kg		08/30/16 10:32	08/31/16 12:14	1
Barium	**110**		5.0	0.10	mg/Kg		08/30/16 10:32	08/31/16 12:14	1
Beryllium	**2.0**		0.50	0.012	mg/Kg		08/30/16 10:32	08/31/16 12:14	1
Cadmium	**1.5**	**B**	0.50	0.025	mg/Kg		08/30/16 10:32	08/31/16 12:14	1
Chromium	**17**		2.0	0.21	mg/Kg		08/30/16 10:32	08/31/16 12:14	1
Cobalt	**7.0**		2.0	0.055	mg/Kg		08/30/16 10:32	08/31/16 12:14	1
Copper	**26**		2.5	0.44	mg/Kg		08/30/16 10:32	08/31/16 12:14	1
Lead	**86**		1.0	0.14	mg/Kg		08/30/16 10:32	08/31/16 12:14	1
Molybdenum	**1.3**	**J B**	2.0	0.056	mg/Kg		08/30/16 10:32	08/31/16 12:14	1
Nickel	**12**		2.0	0.18	mg/Kg		08/30/16 10:32	08/31/16 12:14	1

Client: AECOM, Inc.
Project/Site: LAUSD - Rowan/Lorena E.S.

TestAmerica Job ID: 440-156772-1

Client Sample ID: SCH-07-2DWP
Date Collected: 08/27/16 09:00
Date Received: 08/27/16 15:00

Lab Sample ID: 440-156772-2
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	2.5	J	5.0	0.56	mg/Kg		08/30/16 10:32	08/31/16 12:14	1
Silver	ND		2.5	0.14	mg/Kg		08/30/16 10:32	08/31/16 12:14	1
Thallium	0.48	J	5.0	0.32	mg/Kg		08/30/16 10:32	08/31/16 12:14	1
Vanadium	31		1.0	0.52	mg/Kg		08/30/16 10:32	08/31/16 12:14	1

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.3		0.10	0.080	mg/L			08/30/16 16:39	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.096	0.096	mg/Kg		08/30/16 15:38	08/31/16 12:07	1

Method Summary

Client: AECOM, Inc.
Project/Site: LAUSD - Rowan/Lorena E.S.

TestAmerica Job ID: 440-156772-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8015B	Diesel Range Organics(DRO)/Oil Range Organics (ORO)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL PHX
7471A	Mercury (CVAA)	SW846	TAL PHX

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

Lab Chronicle

Client: AECOM, Inc.
Project/Site: LAUSD - Rowan/Lorena E.S.

TestAmerica Job ID: 440-156772-1

Client Sample ID: SCH-09-4DWP

Date Collected: 08/27/16 08:20
Date Received: 08/27/16 15:00

Lab Sample ID: 440-156772-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	352399	08/29/16 14:23	TCN	TAL IRV
Total/NA	Prep	3546			15.40 g	1 mL	352543	08/29/16 16:22	BAW	TAL IRV
Total/NA	Analysis	8015B		1			352714	08/30/16 13:56	CN	TAL IRV
STLC Citrate	Leach	CA WET Citrate			50.05 g	500 mL	352292	08/27/16 19:06	CDH	TAL IRV
STLC Citrate	Analysis	6010B		20			352792	08/30/16 16:33	EN	TAL IRV
TCLP	Leach	1311			100.06 g	2000 mL	352584	08/29/16 19:31	CDH	TAL IRV
TCLP	Prep	3010A			5 mL	50 mL	352824	08/30/16 20:18	CDH	TAL IRV
TCLP	Analysis	6010B		1			353021	08/31/16 15:08	TK	TAL IRV
Total/NA	Prep	3050B			1.0074 g	50 mL	97076	08/30/16 10:32	SGO	TAL PHX
Total/NA	Analysis	6010B		1			97216	08/31/16 12:09	CJD	TAL PHX
Total/NA	Prep	7471A			0.3341 g	50 mL	97040	08/30/16 15:38	JTG	TAL PHX
Total/NA	Analysis	7471A		1			97219	08/31/16 12:06	JTG	TAL PHX

Client Sample ID: SCH-07-2DWP

Date Collected: 08/27/16 09:00
Date Received: 08/27/16 15:00

Lab Sample ID: 440-156772-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	10 mL	352399	08/29/16 12:58	TCN	TAL IRV
Total/NA	Prep	3546			7.47 g	2 mL	352543	08/29/16 16:22	BAW	TAL IRV
Total/NA	Analysis	8015B		1			352714	08/30/16 16:30	CN	TAL IRV
STLC Citrate	Leach	CA WET Citrate			50.02 g	500 mL	352292	08/27/16 19:06	CDH	TAL IRV
STLC Citrate	Analysis	6010B		20			352792	08/30/16 16:39	EN	TAL IRV
Total/NA	Prep	3050B			1.0019 g	50 mL	97076	08/30/16 10:32	SGO	TAL PHX
Total/NA	Analysis	6010B		1			97216	08/31/16 12:14	CJD	TAL PHX
Total/NA	Prep	7471A			0.3116 g	50 mL	97040	08/30/16 15:38	JTG	TAL PHX
Total/NA	Analysis	7471A		1			97219	08/31/16 12:07	JTG	TAL PHX

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-352399/7
Matrix: Solid
Analysis Batch: 352399

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			08/29/16 09:07	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			08/29/16 09:07	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
Benzene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
Bromobenzene	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
Bromoform	ND		5.0	2.0	ug/Kg			08/29/16 09:07	1
Bromomethane	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
Chloroethane	ND		5.0	2.0	ug/Kg			08/29/16 09:07	1
Chloroform	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
Chloromethane	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
Dibromomethane	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			08/29/16 09:07	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			08/29/16 09:07	1
Methylene Chloride	ND		20	5.0	ug/Kg			08/29/16 09:07	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/29/16 09:07	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-352399/7
Matrix: Solid
Analysis Batch: 352399

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
Styrene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
Tert-amyl-methyl ether (TAME)	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
Toluene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
Trichloroethene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
Xylenes, Total	ND		4.0	2.0	ug/Kg			08/29/16 09:07	1
Isopropyl Ether (DIPE)	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	1.0	ug/Kg			08/29/16 09:07	1
tert-Butyl alcohol (TBA)	ND		100	10	ug/Kg			08/29/16 09:07	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			08/29/16 09:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*79 - 123*		*08/29/16 09:07*	*1*
4-Bromofluorobenzene (Surr)	*95*		*79 - 120*		*08/29/16 09:07*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 120*		*08/29/16 09:07*	*1*

Lab Sample ID: LCS 440-352399/8
Matrix: Solid
Analysis Batch: 352399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	40.6		ug/Kg		81	70 - 130
1,1,1-Trichloroethane	50.0	48.0		ug/Kg		96	65 - 135
1,1,2,2-Tetrachloroethane	50.0	48.2		ug/Kg		96	55 - 140
1,1,2-Trichloroethane	50.0	51.1		ug/Kg		102	65 - 135
1,1-Dichloroethane	50.0	48.0		ug/Kg		96	70 - 130
1,1-Dichloroethene	50.0	49.2		ug/Kg		98	70 - 125
1,1-Dichloropropene	50.0	51.7		ug/Kg		103	70 - 130
1,2,3-Trichlorobenzene	50.0	51.3		ug/Kg		103	60 - 130
1,2,3-Trichloropropane	50.0	50.2		ug/Kg		100	60 - 135
1,2,4-Trichlorobenzene	50.0	52.1		ug/Kg		104	70 - 135
1,2,4-Trimethylbenzene	50.0	50.9		ug/Kg		102	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	37.3		ug/Kg		75	50 - 135
1,2-Dibromoethane (EDB)	50.0	49.8		ug/Kg		100	70 - 130
1,2-Dichlorobenzene	50.0	50.4		ug/Kg		101	75 - 120
1,2-Dichloroethane	50.0	53.7		ug/Kg		107	60 - 140
1,2-Dichloropropane	50.0	51.3		ug/Kg		103	70 - 130
1,3,5-Trimethylbenzene	50.0	50.6		ug/Kg		101	70 - 125
1,3-Dichlorobenzene	50.0	48.7		ug/Kg		97	75 - 125
1,3-Dichloropropane	50.0	53.5		ug/Kg		107	70 - 125
1,4-Dichlorobenzene	50.0	48.6		ug/Kg		97	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-352399/8
Matrix: Solid
Analysis Batch: 352399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	44.1		ug/Kg		88	60 - 145
2-Chlorotoluene	50.0	48.5		ug/Kg		97	70 - 125
4-Chlorotoluene	50.0	49.8		ug/Kg		100	75 - 125
Benzene	50.0	48.5		ug/Kg		97	65 - 120
Bromobenzene	50.0	49.5		ug/Kg		99	75 - 120
Bromochloromethane	50.0	49.2		ug/Kg		98	70 - 135
Bromodichloromethane	50.0	47.0		ug/Kg		94	70 - 135
Bromoform	50.0	46.9		ug/Kg		94	55 - 135
Bromomethane	50.0	48.8		ug/Kg		98	60 - 145
Carbon tetrachloride	50.0	39.6		ug/Kg		79	65 - 140
Chlorobenzene	50.0	49.8		ug/Kg		100	75 - 120
Chloroethane	50.0	50.7		ug/Kg		101	60 - 140
Chloroform	50.0	50.6		ug/Kg		101	70 - 130
Chloromethane	50.0	46.1		ug/Kg		92	45 - 145
cis-1,2-Dichloroethene	50.0	49.7		ug/Kg		99	70 - 125
cis-1,3-Dichloropropene	50.0	46.0		ug/Kg		92	75 - 125
Dibromochloromethane	50.0	45.2		ug/Kg		90	65 - 140
Dibromomethane	50.0	51.1		ug/Kg		102	70 - 130
Dichlorodifluoromethane	50.0	51.1		ug/Kg		102	35 - 160
Ethylbenzene	50.0	51.2		ug/Kg		102	70 - 125
Hexachlorobutadiene	50.0	50.9		ug/Kg		102	60 - 135
Isopropylbenzene	50.0	54.0		ug/Kg		108	75 - 130
m,p-Xylene	50.0	51.9		ug/Kg		104	70 - 125
Methylene Chloride	50.0	47.7		ug/Kg		95	55 - 135
Methyl-t-Butyl Ether (MTBE)	50.0	52.2		ug/Kg		104	60 - 140
Naphthalene	50.0	52.8		ug/Kg		106	55 - 135
n-Butylbenzene	50.0	51.9		ug/Kg		104	70 - 130
N-Propylbenzene	50.0	49.7		ug/Kg		99	70 - 130
o-Xylene	50.0	53.7		ug/Kg		107	70 - 125
sec-Butylbenzene	50.0	50.2		ug/Kg		100	70 - 125
Styrene	50.0	52.3		ug/Kg		105	75 - 130
Tert-amyl-methyl ether (TAME)	50.0	50.7		ug/Kg		101	60 - 145
tert-Butylbenzene	50.0	50.8		ug/Kg		102	70 - 125
Tetrachloroethene	50.0	52.1		ug/Kg		104	70 - 125
Toluene	50.0	50.1		ug/Kg		100	70 - 125
trans-1,2-Dichloroethene	50.0	49.7		ug/Kg		99	70 - 125
trans-1,3-Dichloropropene	50.0	42.6		ug/Kg		85	70 - 135
Trichloroethene	50.0	52.4		ug/Kg		105	70 - 125
Trichlorofluoromethane	50.0	53.3		ug/Kg		107	60 - 145
Vinyl chloride	50.0	52.1		ug/Kg		104	55 - 135
Isopropyl Ether (DIPE)	50.0	54.4		ug/Kg		109	60 - 140
Ethyl-t-butyl ether (ETBE)	50.0	50.0		ug/Kg		100	60 - 140
tert-Butyl alcohol (TBA)	500	515		ug/Kg		103	70 - 135
p-Isopropyltoluene	50.0	51.0		ug/Kg		102	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*79 - 123*
4-Bromofluorobenzene (Surr)	*95*		*79 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-352399/8
Matrix: Solid
Analysis Batch: 352399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	107		60 - 120

Lab Sample ID: 440-156772-2 MS
Matrix: Solid
Analysis Batch: 352399

Client Sample ID: SCH-07-2DWP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		49.9	39.5		ug/Kg		79	65 - 145
1,1,1-Trichloroethane	ND		49.9	49.1		ug/Kg		98	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.9	53.4		ug/Kg		107	40 - 160
1,1,2-Trichloroethane	ND		49.9	53.5		ug/Kg		107	65 - 140
1,1-Dichloroethane	ND		49.9	47.0		ug/Kg		94	65 - 135
1,1-Dichloroethene	ND		49.9	48.9		ug/Kg		98	65 - 135
1,1-Dichloropropene	ND		49.9	50.4		ug/Kg		101	65 - 135
1,2,3-Trichlorobenzene	ND		49.9	45.2		ug/Kg		91	45 - 145
1,2,3-Trichloropropane	ND		49.9	56.6		ug/Kg		113	50 - 150
1,2,4-Trichlorobenzene	ND		49.9	45.9		ug/Kg		92	50 - 140
1,2,4-Trimethylbenzene	ND		49.9	48.2		ug/Kg		97	65 - 140
1,2-Dibromo-3-Chloropropane	ND		49.9	45.1		ug/Kg		90	40 - 150
1,2-Dibromoethane (EDB)	ND		49.9	52.6		ug/Kg		105	65 - 140
1,2-Dichlorobenzene	ND		49.9	48.4		ug/Kg		97	70 - 130
1,2-Dichloroethane	ND		49.9	55.1		ug/Kg		111	60 - 150
1,2-Dichloropropane	ND		49.9	50.6		ug/Kg		101	65 - 130
1,3,5-Trimethylbenzene	ND		49.9	48.2		ug/Kg		97	65 - 135
1,3-Dichlorobenzene	ND		49.9	45.5		ug/Kg		91	70 - 130
1,3-Dichloropropane	ND		49.9	55.2		ug/Kg		111	65 - 140
1,4-Dichlorobenzene	ND		49.9	45.9		ug/Kg		92	70 - 130
2,2-Dichloropropane	ND		49.9	45.6		ug/Kg		91	65 - 150
2-Chlorotoluene	ND		49.9	46.1		ug/Kg		92	60 - 135
4-Chlorotoluene	ND		49.9	47.0		ug/Kg		94	65 - 135
Benzene	ND		49.9	47.1		ug/Kg		94	65 - 130
Bromobenzene	ND		49.9	47.3		ug/Kg		95	65 - 140
Bromochloromethane	ND		49.9	49.6		ug/Kg		99	65 - 145
Bromodichloromethane	ND		49.9	46.7		ug/Kg		94	65 - 145
Bromoform	ND		49.9	50.0		ug/Kg		100	50 - 145
Bromomethane	ND		49.9	45.9		ug/Kg		92	60 - 155
Carbon tetrachloride	ND		49.9	39.2		ug/Kg		78	60 - 145
Chlorobenzene	ND		49.9	47.8		ug/Kg		96	70 - 130
Chloroethane	ND		49.9	48.9		ug/Kg		98	60 - 150
Chloroform	ND		49.9	51.5		ug/Kg		103	65 - 135
Chloromethane	ND		49.9	44.3		ug/Kg		89	40 - 145
cis-1,2-Dichloroethene	ND		49.9	48.5		ug/Kg		97	65 - 135
cis-1,3-Dichloropropene	ND		49.9	46.6		ug/Kg		93	70 - 135
Dibromochloromethane	ND		49.9	47.3		ug/Kg		95	60 - 145
Dibromomethane	ND		49.9	51.8		ug/Kg		104	65 - 140
Dichlorodifluoromethane	ND		49.9	51.0		ug/Kg		102	30 - 160
Ethylbenzene	ND		49.9	49.9		ug/Kg		100	70 - 135
Hexachlorobutadiene	ND		49.9	41.1		ug/Kg		82	50 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-156772-2 MS
Matrix: Solid
Analysis Batch: 352399

Client Sample ID: SCH-07-2DWP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	ND		49.9	51.8		ug/Kg		104	70 - 145
m,p-Xylene	ND		49.9	49.3		ug/Kg		99	70 - 130
Methylene Chloride	ND		49.9	48.3		ug/Kg		97	55 - 145
Methyl-t-Butyl Ether (MTBE)	ND		49.9	55.4		ug/Kg		111	55 - 155
Naphthalene	ND		49.9	53.2		ug/Kg		107	40 - 150
n-Butylbenzene	ND		49.9	47.3		ug/Kg		95	55 - 145
N-Propylbenzene	ND		49.9	47.4		ug/Kg		95	65 - 140
o-Xylene	ND		49.9	50.9		ug/Kg		102	65 - 130
sec-Butylbenzene	ND		49.9	46.5		ug/Kg		93	60 - 135
Styrene	ND		49.9	49.5		ug/Kg		99	70 - 140
Tert-amyl-methyl ether (TAME)	ND		49.9	52.6		ug/Kg		105	60 - 150
tert-Butylbenzene	ND		49.9	47.7		ug/Kg		96	60 - 140
Tetrachloroethene	ND		49.9	50.7		ug/Kg		102	65 - 135
Toluene	ND		49.9	49.4		ug/Kg		99	70 - 130
trans-1,2-Dichloroethene	ND		49.9	49.4		ug/Kg		99	70 - 135
trans-1,3-Dichloropropene	ND		49.9	43.3		ug/Kg		87	60 - 145
Trichloroethene	ND		49.9	50.0		ug/Kg		100	65 - 140
Trichlorofluoromethane	ND		49.9	54.0		ug/Kg		108	55 - 155
Vinyl chloride	ND		49.9	49.4		ug/Kg		99	55 - 140
Isopropyl Ether (DIPE)	ND		49.9	54.6		ug/Kg		109	60 - 150
Ethyl-t-butyl ether (ETBE)	ND		49.9	52.2		ug/Kg		105	60 - 145
tert-Butyl alcohol (TBA)	ND		499	522		ug/Kg		105	65 - 145
p-Isopropyltoluene	ND		49.9	47.9		ug/Kg		96	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*79 - 123*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Dibromofluoromethane (Surr)	*109*		*60 - 120*

Lab Sample ID: 440-156772-2 MSD
Matrix: Solid
Analysis Batch: 352399

Client Sample ID: SCH-07-2DWP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		49.7	41.4		ug/Kg		83	65 - 145	5	20
1,1,1-Trichloroethane	ND		49.7	50.8		ug/Kg		102	65 - 145	4	20
1,1,2,2-Tetrachloroethane	ND		49.7	50.5		ug/Kg		102	40 - 160	6	30
1,1,2-Trichloroethane	ND		49.7	51.8		ug/Kg		104	65 - 140	3	30
1,1-Dichloroethane	ND		49.7	48.6		ug/Kg		98	65 - 135	3	25
1,1-Dichloroethene	ND		49.7	50.8		ug/Kg		102	65 - 135	4	25
1,1-Dichloropropene	ND		49.7	50.7		ug/Kg		102	65 - 135	1	20
1,2,3-Trichlorobenzene	ND		49.7	44.4		ug/Kg		89	45 - 145	2	30
1,2,3-Trichloropropane	ND		49.7	51.3		ug/Kg		103	50 - 150	10	30
1,2,4-Trichlorobenzene	ND		49.7	44.8		ug/Kg		90	50 - 140	3	30
1,2,4-Trimethylbenzene	ND		49.7	49.2		ug/Kg		99	65 - 140	2	25
1,2-Dibromo-3-Chloropropane	ND		49.7	42.2		ug/Kg		85	40 - 150	7	30
1,2-Dibromoethane (EDB)	ND		49.7	50.6		ug/Kg		102	65 - 140	4	25
1,2-Dichlorobenzene	ND		49.7	46.9		ug/Kg		94	70 - 130	3	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-156772-2 MSD
Matrix: Solid
Analysis Batch: 352399

Client Sample ID: SCH-07-2DWP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	ND		49.7	53.7		ug/Kg		108	60 - 150	3	25
1,2-Dichloropropane	ND		49.7	50.9		ug/Kg		102	65 - 130	1	20
1,3,5-Trimethylbenzene	ND		49.7	49.1		ug/Kg		99	65 - 135	2	25
1,3-Dichlorobenzene	ND		49.7	45.4		ug/Kg		91	70 - 130	0	25
1,3-Dichloropropane	ND		49.7	53.6		ug/Kg		108	65 - 140	3	25
1,4-Dichlorobenzene	ND		49.7	45.9		ug/Kg		92	70 - 130	0	25
2,2-Dichloropropane	ND		49.7	48.6		ug/Kg		98	65 - 150	6	25
2-Chlorotoluene	ND		49.7	46.7		ug/Kg		94	60 - 135	1	25
4-Chlorotoluene	ND		49.7	47.6		ug/Kg		96	65 - 135	1	25
Benzene	ND		49.7	48.1		ug/Kg		97	65 - 130	2	20
Bromobenzene	ND		49.7	46.8		ug/Kg		94	65 - 140	1	25
Bromochloromethane	ND		49.7	48.6		ug/Kg		98	65 - 145	2	25
Bromodichloromethane	ND		49.7	46.8		ug/Kg		94	65 - 145	0	20
Bromoform	ND		49.7	47.9		ug/Kg		96	50 - 145	4	30
Bromomethane	ND		49.7	45.8		ug/Kg		92	60 - 155	0	25
Carbon tetrachloride	ND		49.7	43.4		ug/Kg		87	60 - 145	10	25
Chlorobenzene	ND		49.7	47.6		ug/Kg		96	70 - 130	0	25
Chloroethane	ND		49.7	48.9		ug/Kg		98	60 - 150	0	25
Chloroform	ND		49.7	52.1		ug/Kg		105	65 - 135	1	20
Chloromethane	ND		49.7	45.8		ug/Kg		92	40 - 145	3	25
cis-1,2-Dichloroethene	ND		49.7	49.7		ug/Kg		100	65 - 135	3	25
cis-1,3-Dichloropropene	ND		49.7	45.8		ug/Kg		92	70 - 135	2	25
Dibromochloromethane	ND		49.7	47.8		ug/Kg		96	60 - 145	1	25
Dibromomethane	ND		49.7	50.7		ug/Kg		102	65 - 140	2	25
Dichlorodifluoromethane	ND		49.7	53.2		ug/Kg		107	30 - 160	4	35
Ethylbenzene	ND		49.7	49.6		ug/Kg		100	70 - 135	1	25
Hexachlorobutadiene	ND		49.7	41.4		ug/Kg		83	50 - 145	1	35
Isopropylbenzene	ND		49.7	51.4		ug/Kg		103	70 - 145	1	25
m,p-Xylene	ND		49.7	50.2		ug/Kg		101	70 - 130	2	25
Methylene Chloride	ND		49.7	49.5		ug/Kg		100	55 - 145	3	25
Methyl-t-Butyl Ether (MTBE)	ND		49.7	54.3		ug/Kg		109	55 - 155	2	35
Naphthalene	ND		49.7	48.9		ug/Kg		98	40 - 150	8	40
n-Butylbenzene	ND		49.7	48.1		ug/Kg		97	55 - 145	2	30
N-Propylbenzene	ND		49.7	48.3		ug/Kg		97	65 - 140	2	25
o-Xylene	ND		49.7	50.5		ug/Kg		102	65 - 130	1	25
sec-Butylbenzene	ND		49.7	47.2		ug/Kg		95	60 - 135	2	25
Styrene	ND		49.7	48.7		ug/Kg		98	70 - 140	2	25
Tert-amyl-methyl ether (TAME)	ND		49.7	51.7		ug/Kg		104	60 - 150	2	25
tert-Butylbenzene	ND		49.7	48.6		ug/Kg		98	60 - 140	2	25
Tetrachloroethene	ND		49.7	51.4		ug/Kg		103	65 - 135	1	25
Toluene	ND		49.7	49.8		ug/Kg		100	70 - 130	1	20
trans-1,2-Dichloroethene	ND		49.7	50.3		ug/Kg		101	70 - 135	2	25
trans-1,3-Dichloropropene	ND		49.7	44.3		ug/Kg		89	60 - 145	2	25
Trichloroethene	ND		49.7	51.8		ug/Kg		104	65 - 140	3	25
Trichlorofluoromethane	ND		49.7	55.4		ug/Kg		111	55 - 155	3	25
Vinyl chloride	ND		49.7	53.0		ug/Kg		107	55 - 140	7	30
Isopropyl Ether (DIPE)	ND		49.7	53.6		ug/Kg		108	60 - 150	2	25
Ethyl-t-butyl ether (ETBE)	ND		49.7	51.9		ug/Kg		104	60 - 145	1	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-156772-2 MSD
Matrix: Solid
Analysis Batch: 352399

Client Sample ID: SCH-07-2DWP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butyl alcohol (TBA)	ND		497	486		ug/Kg		98	65 - 145	7	30
p-Isopropyltoluene	ND		49.7	48.7		ug/Kg		98	60 - 140	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*79 - 123*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*
Dibromofluoromethane (Surr)	*110*		*60 - 120*

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Lab Sample ID: MB 440-352543/1-A
Matrix: Solid
Analysis Batch: 352712

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		08/29/16 16:22	08/30/16 13:18	1
C23-C40	ND		5.0	2.5	mg/Kg		08/29/16 16:22	08/30/16 13:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*40 - 140*	*08/29/16 16:22*	*08/30/16 13:18*	*1*

Lab Sample ID: LCS 440-352543/2-A
Matrix: Solid
Analysis Batch: 352712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	66.7	41.3		mg/Kg		62	45 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*60*		*40 - 140*

Lab Sample ID: 440-156726-B-1-A MS
Matrix: Solid
Analysis Batch: 352714

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 352543

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	15	F1	65.7	40.0	F1	mg/Kg		38	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*65*		*40 - 140*

Lab Sample ID: 440-156726-B-1-B MSD
Matrix: Solid
Analysis Batch: 352714

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 352543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	15	F1	66.1	48.3		mg/Kg		51	40 - 120	19	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	*63*		*40 - 140*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 550-97076/1-A
Matrix: Solid
Analysis Batch: 97216

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97076

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.0	0.37	mg/Kg		08/30/16 10:32	08/31/16 11:41	1
Arsenic	ND		3.0	0.55	mg/Kg		08/30/16 10:32	08/31/16 11:41	1
Barium	ND		5.0	0.10	mg/Kg		08/30/16 10:32	08/31/16 11:41	1
Beryllium	ND		0.50	0.012	mg/Kg		08/30/16 10:32	08/31/16 11:41	1
Cadmium	0.0275	J	0.50	0.024	mg/Kg		08/30/16 10:32	08/31/16 11:41	1
Chromium	ND		2.0	0.21	mg/Kg		08/30/16 10:32	08/31/16 11:41	1
Cobalt	ND		2.0	0.054	mg/Kg		08/30/16 10:32	08/31/16 11:41	1
Copper	ND		2.5	0.44	mg/Kg		08/30/16 10:32	08/31/16 11:41	1
Lead	ND		1.0	0.14	mg/Kg		08/30/16 10:32	08/31/16 11:41	1
Molybdenum	0.0954	J	2.0	0.056	mg/Kg		08/30/16 10:32	08/31/16 11:41	1
Nickel	ND		2.0	0.18	mg/Kg		08/30/16 10:32	08/31/16 11:41	1
Selenium	ND		5.0	0.56	mg/Kg		08/30/16 10:32	08/31/16 11:41	1
Silver	ND		2.5	0.14	mg/Kg		08/30/16 10:32	08/31/16 11:41	1
Thallium	ND		5.0	0.32	mg/Kg		08/30/16 10:32	08/31/16 11:41	1
Vanadium	ND		1.0	0.52	mg/Kg		08/30/16 10:32	08/31/16 11:41	1

Lab Sample ID: LCS 550-97076/2-A
Matrix: Solid
Analysis Batch: 97216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	49.5	49.7		mg/Kg		100	78 - 100
Arsenic	49.5	47.4		mg/Kg		96	81 - 106
Barium	49.5	49.5		mg/Kg		100	86 - 110
Beryllium	49.5	49.8		mg/Kg		101	86 - 110
Cadmium	49.5	48.4		mg/Kg		98	83 - 105
Chromium	49.5	50.5		mg/Kg		102	87 - 110
Cobalt	49.5	49.7		mg/Kg		100	87 - 108
Copper	49.5	50.4		mg/Kg		102	86 - 116
Lead	49.5	48.2		mg/Kg		97	84 - 107
Molybdenum	49.5	50.8		mg/Kg		103	87 - 110
Nickel	49.5	48.8		mg/Kg		99	84 - 109
Selenium	49.5	46.6		mg/Kg		94	78 - 103
Silver	3.71	3.71		mg/Kg		100	83 - 107
Thallium	49.5	51.6		mg/Kg		104	86 - 114
Vanadium	49.5	50.2		mg/Kg		102	86 - 110

Lab Sample ID: LCSD 550-97076/3-A
Matrix: Solid
Analysis Batch: 97216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97076

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	49.7	49.2		mg/Kg		99	78 - 100	1	20
Arsenic	49.7	47.6		mg/Kg		96	81 - 106	0	20
Barium	49.7	49.1		mg/Kg		99	86 - 110	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 550-97076/3-A
Matrix: Solid
Analysis Batch: 97216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97076

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	49.7	49.6		mg/Kg		100	86 - 110	0	20
Cadmium	49.7	48.1		mg/Kg		97	83 - 105	1	20
Chromium	49.7	50.3		mg/Kg		101	87 - 110	0	20
Cobalt	49.7	49.4		mg/Kg		99	87 - 108	1	20
Copper	49.7	50.0		mg/Kg		101	86 - 116	1	20
Lead	49.7	47.9		mg/Kg		96	84 - 107	1	20
Molybdenum	49.7	50.7		mg/Kg		102	87 - 110	0	20
Nickel	49.7	48.7		mg/Kg		98	84 - 109	0	20
Selenium	49.7	46.7		mg/Kg		94	78 - 103	0	20
Silver	3.73	3.68		mg/Kg		99	83 - 107	1	20
Thallium	49.7	52.1		mg/Kg		105	86 - 114	1	20
Vanadium	49.7	49.9		mg/Kg		100	86 - 110	1	20

Lab Sample ID: 440-156771-B-1-A MS
Matrix: Solid
Analysis Batch: 97216

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97076

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	49.7	15.5	F1	mg/Kg		31	75 - 125
Arsenic	7.2		49.7	45.4		mg/Kg		77	75 - 125
Barium	79	F1	49.7	158	F1	mg/Kg		159	75 - 125
Beryllium	1.3		49.7	41.3		mg/Kg		80	75 - 125
Cadmium	0.40	J B	49.7	40.4		mg/Kg		81	75 - 125
Chromium	16	F1	49.7	55.4		mg/Kg		78	75 - 125
Cobalt	4.6		49.7	44.0		mg/Kg		79	75 - 125
Copper	14		49.7	56.8		mg/Kg		86	75 - 125
Lead	110	F1	49.7	302	F1	mg/Kg		396	75 - 125
Molybdenum	0.42	J B	49.7	38.2		mg/Kg		76	75 - 125
Nickel	8.2	F1	49.7	45.4		mg/Kg		75	75 - 125
Selenium	1.0	J	49.7	38.3		mg/Kg		75	75 - 125
Silver	ND		3.73	3.24		mg/Kg		87	75 - 125
Thallium	ND		49.7	37.8		mg/Kg		76	75 - 125
Vanadium	22		49.7	68.1		mg/Kg		93	75 - 125

Lab Sample ID: 440-156771-B-1-B MSD
Matrix: Solid
Analysis Batch: 97216

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97076

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	49.9	15.4	F1	mg/Kg		31	75 - 125	1	20
Arsenic	7.2		49.9	45.5		mg/Kg		77	75 - 125	0	20
Barium	79	F1	49.9	140		mg/Kg		123	75 - 125	12	20
Beryllium	1.3		49.9	41.4		mg/Kg		80	75 - 125	0	20
Cadmium	0.40	J B	49.9	40.1		mg/Kg		79	75 - 125	1	20
Chromium	16	F1	49.9	52.3	F1	mg/Kg		72	75 - 125	6	20
Cobalt	4.6		49.9	43.6		mg/Kg		78	75 - 125	1	20
Copper	14		49.9	55.3		mg/Kg		83	75 - 125	3	20
Lead	110	F1	49.9	284	F1	mg/Kg		358	75 - 125	6	20
Molybdenum	0.42	J B	49.9	37.8		mg/Kg		75	75 - 125	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-156771-B-1-B MSD
Matrix: Solid
Analysis Batch: 97216

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97076

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nickel	8.2	F1	49.9	45.3	F1	mg/Kg		74	75 - 125	0	20
Selenium	1.0	J	49.9	40.2		mg/Kg		79	75 - 125	5	20
Silver	ND		3.74	3.16		mg/Kg		84	75 - 125	2	20
Thallium	ND		49.9	38.1		mg/Kg		76	75 - 125	1	20
Vanadium	22		49.9	63.3		mg/Kg		83	75 - 125	7	20

Lab Sample ID: MB 440-352584/1-B
Matrix: Solid
Analysis Batch: 353021

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 352824

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0521	J	0.10	0.040	mg/L		08/30/16 20:18	08/31/16 14:50	1

Lab Sample ID: LCS 440-352584/2-B
Matrix: Solid
Analysis Batch: 353021

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 352824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	2.00	1.86		mg/L		93	80 - 120

Lab Sample ID: 440-156771-A-1-G MS
Matrix: Solid
Analysis Batch: 353021

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 352824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.66	B	2.00	2.35		mg/L		84	75 - 125

Lab Sample ID: MB 440-352292/1-A ^20
Matrix: Solid
Analysis Batch: 352792

Client Sample ID: Method Blank
Prep Type: STLC Citrate

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.10	0.080	mg/L			08/30/16 16:28	20

Lab Sample ID: LCS 440-352292/2-A ^20
Matrix: Solid
Analysis Batch: 352792

Client Sample ID: Lab Control Sample
Prep Type: STLC Citrate

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	20.0	19.4		mg/L		97	80 - 120

Lab Sample ID: 440-156772-1 MS
Matrix: Solid
Analysis Batch: 352792

Client Sample ID: SCH-09-4DWP
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	3.0		20.0	22.9		mg/L		100	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-156772-1 MSD
Matrix: Solid
Analysis Batch: 352792

Client Sample ID: SCH-09-4DWP
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	3.0		20.0	22.5		mg/L		98	75 - 125	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 550-97040/12-A
Matrix: Solid
Analysis Batch: 97219

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.096	0.096	mg/Kg		08/29/16 16:35	08/31/16 11:39	1

Lab Sample ID: LCS 550-97040/13-A
Matrix: Solid
Analysis Batch: 97219

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97040

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			1.51	1.60		mg/Kg		106	80 - 120		

Lab Sample ID: LCSD 550-97040/14-A
Matrix: Solid
Analysis Batch: 97219

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97040

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			1.56	1.36		mg/Kg		87	80 - 120	16	20

Lab Sample ID: 550-68671-A-1-B MS
Matrix: Solid
Analysis Batch: 97219

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97040

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND	F1 F2	1.66	1.67		mg/Kg		101	75 - 125		

Lab Sample ID: 550-68671-A-1-C MSD
Matrix: Solid
Analysis Batch: 97219

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97040

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND	F1 F2	1.58	1.17	F1 F2	mg/Kg		74	75 - 125	36	20

QC Association Summary

Client: AECOM, Inc.
Project/Site: LAUSD - Rowan/Lorena E.S.

TestAmerica Job ID: 440-156772-1

GC/MS VOA

Analysis Batch: 352399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-156772-1	SCH-09-4DWP	Total/NA	Solid	8260B	
440-156772-2	SCH-07-2DWP	Total/NA	Solid	8260B	
MB 440-352399/7	Method Blank	Total/NA	Solid	8260B	
LCS 440-352399/8	Lab Control Sample	Total/NA	Solid	8260B	
440-156772-2 MS	SCH-07-2DWP	Total/NA	Solid	8260B	
440-156772-2 MSD	SCH-07-2DWP	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 352543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-156772-1	SCH-09-4DWP	Total/NA	Solid	3546	
440-156772-2	SCH-07-2DWP	Total/NA	Solid	3546	
MB 440-352543/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-352543/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-156726-B-1-A MS	Matrix Spike	Total/NA	Solid	3546	
440-156726-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 352712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-352543/1-A	Method Blank	Total/NA	Solid	8015B	352543
LCS 440-352543/2-A	Lab Control Sample	Total/NA	Solid	8015B	352543

Analysis Batch: 352714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-156772-1	SCH-09-4DWP	Total/NA	Solid	8015B	352543
440-156772-2	SCH-07-2DWP	Total/NA	Solid	8015B	352543
440-156726-B-1-A MS	Matrix Spike	Total/NA	Solid	8015B	352543
440-156726-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	352543

Metals

Prep Batch: 97040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-156772-1	SCH-09-4DWP	Total/NA	Solid	7471A	
440-156772-2	SCH-07-2DWP	Total/NA	Solid	7471A	
MB 550-97040/12-A	Method Blank	Total/NA	Solid	7471A	
LCS 550-97040/13-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 550-97040/14-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
550-68671-A-1-B MS	Matrix Spike	Total/NA	Solid	7471A	
550-68671-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 97076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-156772-1	SCH-09-4DWP	Total/NA	Solid	3050B	
440-156772-2	SCH-07-2DWP	Total/NA	Solid	3050B	
MB 550-97076/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 550-97076/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 550-97076/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
440-156771-B-1-A MS	Matrix Spike	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 97076 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-156771-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 97216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-156772-1	SCH-09-4DWP	Total/NA	Solid	6010B	97076
440-156772-2	SCH-07-2DWP	Total/NA	Solid	6010B	97076
MB 550-97076/1-A	Method Blank	Total/NA	Solid	6010B	97076
LCS 550-97076/2-A	Lab Control Sample	Total/NA	Solid	6010B	97076
LCSD 550-97076/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	97076
440-156771-B-1-A MS	Matrix Spike	Total/NA	Solid	6010B	97076
440-156771-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	97076

Analysis Batch: 97219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-156772-1	SCH-09-4DWP	Total/NA	Solid	7471A	97040
440-156772-2	SCH-07-2DWP	Total/NA	Solid	7471A	97040
MB 550-97040/12-A	Method Blank	Total/NA	Solid	7471A	97040
LCS 550-97040/13-A	Lab Control Sample	Total/NA	Solid	7471A	97040
LCSD 550-97040/14-A	Lab Control Sample Dup	Total/NA	Solid	7471A	97040
550-68671-A-1-B MS	Matrix Spike	Total/NA	Solid	7471A	97040
550-68671-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	97040

Leach Batch: 352292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-156772-1	SCH-09-4DWP	STLC Citrate	Solid	CA WET Citrate	
440-156772-2	SCH-07-2DWP	STLC Citrate	Solid	CA WET Citrate	
MB 440-352292/1-A ^20	Method Blank	STLC Citrate	Solid	CA WET Citrate	
LCS 440-352292/2-A ^20	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
440-156772-1 MS	SCH-09-4DWP	STLC Citrate	Solid	CA WET Citrate	
440-156772-1 MSD	SCH-09-4DWP	STLC Citrate	Solid	CA WET Citrate	

Leach Batch: 352584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-156772-1	SCH-09-4DWP	TCLP	Solid	1311	
MB 440-352584/1-B	Method Blank	TCLP	Solid	1311	
LCS 440-352584/2-B	Lab Control Sample	TCLP	Solid	1311	
440-156771-A-1-G MS	Matrix Spike	TCLP	Solid	1311	

Analysis Batch: 352792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-156772-1	SCH-09-4DWP	STLC Citrate	Solid	6010B	352292
440-156772-2	SCH-07-2DWP	STLC Citrate	Solid	6010B	352292
MB 440-352292/1-A ^20	Method Blank	STLC Citrate	Solid	6010B	352292
LCS 440-352292/2-A ^20	Lab Control Sample	STLC Citrate	Solid	6010B	352292
440-156772-1 MS	SCH-09-4DWP	STLC Citrate	Solid	6010B	352292
440-156772-1 MSD	SCH-09-4DWP	STLC Citrate	Solid	6010B	352292

Prep Batch: 352824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-156772-1	SCH-09-4DWP	TCLP	Solid	3010A	352584
MB 440-352584/1-B	Method Blank	TCLP	Solid	3010A	352584

Metals (Continued)

Prep Batch: 352824 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-352584/2-B	Lab Control Sample	TCLP	Solid	3010A	352584
440-156771-A-1-G MS	Matrix Spike	TCLP	Solid	3010A	352584

Analysis Batch: 353021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-156772-1	SCH-09-4DWP	TCLP	Solid	6010B	352824
MB 440-352584/1-B	Method Blank	TCLP	Solid	6010B	352824
LCS 440-352584/2-B	Lab Control Sample	TCLP	Solid	6010B	352824
440-156771-A-1-G MS	Matrix Spike	TCLP	Solid	6010B	352824

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: AECOM, Inc.
Project/Site: LAUSD - Rowan/Lorena E.S.

TestAmerica Job ID: 440-156772-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-17
Arizona	State Program	9	AZ0671	10-13-16 *
California	LA Cty Sanitation Districts	9	10256	01-31-17 *
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 12.002r	01-23-17
Hawaii	State Program	9	N/A	01-29-17
Kansas	NELAP Secondary AB	7	E-10420	07-31-16 *
Nevada	State Program	9	CA015312016-2	07-31-17 *
New Mexico	State Program	6	N/A	01-29-17
Northern Mariana Islands	State Program	9	MP0002	01-29-17
Oregon	NELAP	10	4028	01-29-17
USDA	Federal		P330-09-00080	07-08-18
Washington	State Program	10	C900	09-03-17

Laboratory: TestAmerica Phoenix

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
AIHA-LAP, LLC	ELLAP		154268	02-01-17
AIHA-LAP, LLC	IHLAP		154268	07-01-17
Arizona	State Program	9	AZ0728	06-09-17
California	State Program	9	2941	11-30-17
Nevada	State Program	9	AZ01030	07-31-17
Oregon	NELAP	10	AZ100001	03-09-17
USDA	Federal		P330-09-00024	09-18-16 *

* Certification renewal pending - certification considered valid.

Roberts, Danielle C.

From: Shen, Cynthia [cynthia.shen@aecom.com]
Sent: Wednesday, August 31, 2016 2:47 PM
To: Roberts, Danielle C.
Subject: RE: TestAmerica report files from 440-156772-1 LAUSD - Rowan/Lorena E.S.

Let's proceed with STLC. No TCLP on sample 2.

Thanks
Cynthia

From: Roberts, Danielle C. [mailto:Danielle.Roberts@testamericainc.com]
Sent: Wednesday, August 31, 2016 2:45 PM
To: Shen, Cynthia
Subject: RE: TestAmerica report files from 440-156772-1 LAUSD - Rowan/Lorena E.S.

Hi Cynthia,

We will hold on to the extract.

Regards,
Danielle Roberts
Senior Project Manager,
Test America
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue, Suite #100
Irvine, CA 92614
Tel 949.260-3249
www.testamericainc.com

From: Shen, Cynthia [mailto:cynthia.shen@aecom.com]
Sent: Wednesday, August 31, 2016 2:26 PM
To: Roberts, Danielle C.
Subject: RE: TestAmerica report files from 440-156772-1 LAUSD - Rowan/Lorena E.S.

Danielle,

Hold on disposing of the STLC extraction for sample 2 (with 50 mg/kg). The sub is checking to see if STLC is needed. Go ahead and run it if you are scheduled to. Sorry about the confusion. There is some debate about whether or not STLC is needed in this case.

Cynthia

From: Roberts, Danielle C. [mailto:Danielle.Roberts@testamericainc.com]
Sent: Wednesday, August 31, 2016 1:32 PM
To: Shen, Cynthia
Subject: RE: TestAmerica report files from 440-156772-1 LAUSD - Rowan/Lorena E.S.

AECOM
999 Town and Country Road
Orange, CA 92868
(714) 567-2400
FAX (714) 567-2594

CHAIN OF CUSTODY RECORD

Date: 8/27/16
Page 1 of 1

☐ Data Requested in GISKey Format

Lab Name: Test America	URS Project/PO Number: 60516998.01000
Client Name/Project Name/Location: LAUSD Rowen/Lorena ES	GeoTracker Information:
URS Project Manager: Cynthia Chen	EDF Reporting: Y N Global ID:
Sampler Name and Signature	COELT Log Number:

Requested Analyses: VOCs 8260, TPHcc 8015M, PAH/metals 6010 + Mercury 7471A, STLC Pb, TCLP Pb; HOLD

#	Sample Name:	Sample Date:	Sample Time:	Preserved:	Matrix:	Container Type:	# of Cont.:	VOCs 8260	TPHcc 8015M	22 metals 6010 +	Mercury 7471A	STLC Pb	TCLP Pb	HOLD	Special Instructions:
1	SCH-09-4DWP	8/27	8:20	Y N (N circled)	S L G (S circled)	Acetate SS. Brass Jar Encore ___ml Amb. Plas. Glass VOA (Jar circled)	1	X	X	X	X	X	X		
2	SCH-07-2DWP	8/27	9:00	Y N (N circled)	S L G (S circled)	Acetate SS. Brass Jar Encore ___ml Amb. Plas. Glass VOA (Jar circled)	1	X	X	X	X	X	X		
3				Y N	S L G	Acetate SS. Brass Jar Encore ___ml Amb. Plas. Glass VOA									
4				Y N	S L G	Acetate SS. Brass Jar Encore ___ml Amb. Plas. Glass VOA									
5				Y N	S L G	Acetate SS. Brass Jar Encore ___ml Amb. Plas. Glass VOA									
6				Y N	S L G	Acetate SS. Brass Jar Encore ___ml Amb. Plas. Glass VOA									
7				Y N	S L G	Acetate SS. Brass Jar Encore ___ml Amb. Plas. Glass VOA									
8				Y N	S L G	Acetate SS. Brass Jar Encore ___ml Amb. Plas. Glass VOA									
9				Y N	S L G	Acetate SS. Brass Jar Encore ___ml Amb. Plas. Glass VOA									
#				Y N	S L G	Acetate SS. Brass Jar Encore ___ml Amb. Plas. Glass VOA									

440-156772 Chain of Custody

Relinquished by:	Date:	Received By:	Date/Time:
[signature]	8/27/16 1500		
Relinquished by:	Date:	Received By:	Date/Time:
Relinquished by:	Date:	Received By: [signature]	Date/Time: 8/27/16 15:00

Turnaround Time: (Check)
Same Day:____ 72 Hour:____
24 Hour: X 5 Day:____
48 Hour:____ Standard:____

Lab Use Only
Cooler Temperature*________
*Record upon arrival

AECOM

S=Solid L=Liquid G= Gas White Copy in Final Report, Yellow to File, Pink to URS at Dropoff

3.8/3.6 IR-7 4°C

TestAmerica Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/2/2016

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Roberts, Danielle C	Carrier Tracking No(s):	COC No: 440-101796.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: danielle.roberts@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc				Job #: 440-156772-1
Address: 4625 East Cotton Ctr Blvd, Suite 189,	Due Date Requested: 8/30/2016			
City: Phoenix	TAT Requested (days):			
State, Zip: AZ, 85040				
Phone: 602-437-3340(Tel) 602-454-9303(Fax)	PO #:			
Email:	WO #:			
Project Name: LAUSD	Project #: 44016610			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/3050B CAM 17 ICP Metals	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SCH-09-4DWP (440-156772-1)	8/27/16	08:20 Pacific		Solid			X	X	1	
SCH-07-2DWP (440-156772-2)	8/27/16	09:00 Pacific		Solid			X	X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1

Special Instructions/QC Requirements: 2-4°C

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: VuBanh	Date/Time: 8/29/16 17:00	Company: TAI	Received by: FedEx
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by: 08

Received by: FedEx	Date/Time: 8/29/16 17:00	Company		
Received by:	Date/Time:	Company		
Received by:	Date/Time: 8-30-16 09:40	Company TAI Phx		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 440-156772-1

Login Number: 156772
List Number: 1
Creator: Chavez, Yonny 1

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 440-156772-1

Login Number: 156772
List Number: 2
Creator: Gravlin, Andrea

List Source: TestAmerica Phoenix
List Creation: 08/30/16 10:17 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

ATTACHMENT E

WASTE DISPOSAL MANIFESTS

CHIQUITA CANYON LANDFILL
A Waste Connections Company
29201 HENRY MAYO DRIVE
CASTAIC, CA 91384

** Duplicate Ticket **

SITE	TICKET	GRID	WEIGHMASTER
01	959553		DOLORESL

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/03/16	10/03/16	4:40	4:40	ICS-K1	

REFERENCE	ORIGIN
16-213	LOS ANGELES

1675
INNOVATIVE CONST. SOLUTIONS
ATTN: ACCOUNTS PAYABLE
4011 WEST CHANDLER AVE
SANTA ANA, CA 92704

Scale Gross Wt. 72100
Stored Tare Wt. 33020
Net Weight 39080

Charge Ticket

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
19.54	TON	Soil - Non Hazardous				

Operating Hours:M-F 4:30AM to 5:00 PM, Sat 4:30AM-2:00PM
Sunday-Closed
I am responsible for damage and injuries.
Load has no liquids or hazardous waste

Note1: LAUSD
Note2: 600 ROWAN AV., LA
Route: LOS ANGELES, CA 90017
PO Number CCL 16 1366 001

SIGNATURE:_____

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

WP47201 K1

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	(714)709-1311	CCL - 16 - 1366 - 001

GENERATOR

5. Generator's Name and Mailing Address
Los Angeles Unified School District (LAUSD)
333 Beaudry Avenue, 21st Floor, Los Angeles, CA, 90017
Generator's Phone: (213)241-3199 Attn. Greta Galoustian

Generator's Site Address (if different than mailing address)
LAUSD - Rowan Avenue Elementary School
600 South Rowan Avenue, Los Angeles, CA 90023

6. Transporter 1 Company Name: MARTINS TKG — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chiquita Canyon Landfill
29201 Henry Mayo Drive, Castaic, CA 91384
Facility's Phone: (661)257-3655
U.S. EPA ID Number:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil		DT	18	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Soil: 98-100%
Debris/PPE: 0-2%
CCL Profile Number: CCL-16-213
Acct Number: 1675
Wear appropriate Personal Protective Equipment when handling, as necessary

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Stephen Penrose (On Behalf of LAUSD) — Signature — Month 10 Day 2 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: X Oscar MR — Signature: X — Month 10 Day 2 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

TRANSPORTER #1

CHIQUITA CANYON LANDFILL
A Waste Connections Company
29201 HENRY MAYO DRIVE
CASTAIC, CA 91384

** Duplicate Ticket **

SITE	TICKET	GRID	WEIGHMASTER
01	959552		DOLORESL

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/03/16	10/03/16	4:39	4:39	ICS-219	

REFERENCE	ORIGIN
16-213	LOS ANGELES

1675
INNOVATIVE CONST. SOLUTIONS
ATTN: ACCOUNTS PAYABLE
4011 WEST CHANDLER AVE
SANTA ANA, CA 92704

Scale Gross Wt.	72000
Stored Tare Wt.	28000
Net Weight	44000

Charge Ticket

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
22.00	TON	Soil - Non Hazardous				

Operating Hours:M-F 4:30AM to 5:00 PM, Sat 4:30AM-2:00PM
Sunday-Closed
I am responsible for damage and injuries.
Load has no liquids or hazardous waste

Note1:	LAUSD
Note2:	600 ROWAN AV., LA
Route:	LOS ANGELES, CA 90017
PO Number	CCL 16 1366 002

SIGNATURE:_____

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

219 - 9A87602 -

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	(714)709-1311	CCL - 16 - 1366 - 002

GENERATOR

5. Generator's Name and Mailing Address
Los Angeles Unified School District (LAUSD)
333 Beaudry Avenue, 21st Floor, Los Angeles, CA, 90017
Generator's Phone: (213)241-3199 Attn. Greta Galoustian

Generator's Site Address (if different than mailing address)
LAUSD - Rowan Avenue Elementary School
600 South Rowan Avenue, Los Angeles, CA 90023

6. Transporter 1 Company Name: X R.J. Hernandez Trucking — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Chiquita Canyon Landfill
29201 Henry Mayo Drive, Castaic, CA 91384
Facility's Phone: (661)257-3655
U.S. EPA ID Number:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil		DT	18	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Soil: 98-100%
Debris/PPE: 0-2%
CCL Profile Number: CCL-16-213
Acct Number: 1675
Wear appropriate Personal Protective Equipment when handling, as necessary

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Stephen Fenoss (On Behalf of LAUSD) — Signature — Month 10 Day 2 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Ramon J Hernandez — Signature: X — Month 10 Day 2 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month 10 Day 3 Year 16

169-BLC-O-6-10498 (Rev. 9/09)

TRANSPORTER #1

CHIQUITA CANYON LANDFILL

A Waste Connections Company
29201 HENRY MAYO DRIVE
CASTAIC, CA 91384

** Duplicate Ticket **

SITE	TICKET	GRID	WEIGHMASTER
01	959556		DOLORESL

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/03/16	10/03/16	4:44	4:44	ICS-2	

REFERENCE	ORIGIN
16-213	LOS ANGELES

1675
INNOVATIVE CONST. SOLUTIONS
ATTN: ACCOUNTS PAYABLE
4011 WEST CHANDLER AVE
SANTA ANA, CA 92704

Scale Gross Wt.	79080	Charge Ticket
Stored Tare Wt.	27120	
Net Weight	51960	

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
25.98	TON	Soil - Non Hazardous				

Operating Hours:M-F 4:30AM to 5:00 PM, Sat 4:30AM-2:00PM
Sunday-Closed
I am responsible for damage and injuries.
Load has no liquids or hazardous waste

Note1: LAUSD
Note2: 600 ROWAN AV., LA
Route: LOS ANGELES, CA 90017
PO Number CCL 16 1366 003

SIGNATURE:_____

NET AMOUNT
TENDERED
CHANGE
CHECK NO

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	(714)709-1311	CCL - 16 - 1366 - 003

5. Generator's Name and Mailing Address
Los Angeles Unified School District (LAUSD)
333 Beaudry Avenue, 21st Floor, Los Angeles, CA, 90017
Generator's Phone: (213) 241-3199 Attn. Greta Galoustian

Generator's Site Address (if different than mailing address)
LAUSD - Rowan Avenue Elementary School
600 South Rowan Avenue, Los Angeles, CA 90023

6. Transporter 1 Company Name: MARTIN'S TRUCKING — **U.S. EPA ID Number**: N/A

7. Transporter 2 Company Name — **U.S. EPA ID Number**:

8. Designated Facility Name and Site Address — **U.S. EPA ID Number**:
Chiquita Canyon Landfill
29201 Henry Mayo Drive, Castaic, CA 91384
Facility's Phone: (661) 257-3655

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil		DT	18	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Soil: 98-100%
Debris/PPE: 0-2%
CCL Profile Number: CCL-16-213
Acct Number: 1675
Wear appropriate Personal Protective Equipment when handling, as necessary

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Stephen Remsa (On Behalf of LAUSD) — Signature — Month: 10 Day: 7 Year: 16

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: GARY KOSTIKYAN — Signature — Month: 10 Day: 09 Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

169-BLC-O 6 10498 (Rev. 9/09)

TRANSPORTER #2

CHIQUITA CANYON LANDFILL
A Waste Connections Company
29201 HENRY MAYO DRIVE
CASTAIC, CA 91384

** Duplicate Ticket **

SITE	TICKET	GRID	WEIGHMASTER
01	959554		DOLORESL

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/03/16	10/03/16	4:42	4:42	WS-08	

REFERENCE	ORIGIN
16-213	LOS ANGELES

1675
INNOVATIVE CONST. SOLUTIONS
ATTN: ACCOUNTS PAYABLE
4011 WEST CHANDLER AVE
SANTA ANA, CA 92704

Scale Gross Wt.	52320
Stored Tare Wt.	25420
Net Weight	26900

Charge Ticket

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
13.45	TON	Soil - Non Hazardous				

Operating Hours:M-F 4:30AM to 5:00 PM, Sat 4:30AM-2:00PM
Sunday-Closed
I am responsible for damage and injuries.
Load has no liquids or hazardous waste

Note1:	LAUSD
Note2:	600 ROWAN AV., LA
Route:	LOS ANGELES, CA 90017
PO Number	CCL 16 1366 004

SIGNATURE:_____

NET AMOUNT
TENDERED
CHANGE
CHECK NO

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	(714) 709-1311	CCL - 16 - 1366 - 004

GENERATOR

5. Generator's Name and Mailing Address
Los Angeles Unified School District (LAUSD)
333 Beaudry Avenue, 21st Floor, Los Angeles, CA, 90017
Generator's Phone: (213) 241-3199 Attn. Greta Galoustian

Generator's Site Address (if different than mailing address)
LAUSD - Rowan Avenue Elementary School
600 South Rowan Avenue, Los Angeles, CA 90023

6. Transporter 1 Company Name: MARTIN'S TRUCKING — U.S. EPA ID Number: N/A

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chiquita Canyon Landfill
29201 Henry Mayo Drive, Castaic, CA 91384
Facility's Phone: (661) 257-3655

U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil		DT	14	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Soil: 98-100%

Debris/PPE: 0-2%

CCL Profile Number: CCL-16-213
Acct Number: 1675
Wear appropriate Personal Protective Equipment when handling, as necessary

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Stephen Penrose (On Behalf of LAUSD) — Signature — Month: 10 Day: 7 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Henry Hernandez — Signature — Month: 10 Day: 07 Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year: 10 3 16

ATTACHMENT F

SOIL CERTIFICATION

WHITTIER FERTILIZER
ONE STOP LANDSCAPE SUPPLY CENTER

April 22, 2016

Los Angeles Unified School District
333 S. Beaudry Ave. 28th Floor
Los Angeles, CA 90017
Attn: Dane Robinson

Dane,

Whittier Fertilizer is under contract with the Los Angeles USD to supply 'Lawn Topping Plus' to various school sites. The material is picked up at Vulcan Materials in Irwindale. The trucks being loaded and the material are free of contaminates. All trucks will travel directly from the quarry to the school properties without taking any side trips or picking up additional materials.

Thank you,

Jim Osborn VP
Whittier Fertilizer Co.
9441 Kruse Rd.
Pico Rivera, CA 90660
(562)699-3461

Vulcan
Materials Company

West Region

April 4, 2016

Whittier Fertilizer

Project: **LAUSD**

Subject: **Irwindale - Reliance – Cone Fines**

Gentlemen:

The California Mine ID for our Irwindale - Reliance Quarry is 91-19-0016. This mine is on the current list of mining operations eligible to sell materials to State and local government agencies. Mining operations on this list have demonstrated to the Department of Conservation that they have met the requirements in Public Resources Code Section 2717 (b). The Cone Fines produced and shipped out of this plant is produced entirely from virgin aggregate sources. The Material is comprised of Granite. The composition varies naturally, typically containing some Quartz. Please Find Material Safety Data Sheets @ **vulcanmaterials.com** under Construction Materials, Material Safety Data Sheets listed Under Western Division.

The **Cone Fines** contains No Recycled Materials.

Except for quarrying operations, no development of any kind has occurred on land containing the quarry/source from which the fill material originates.

No chemical contaminants, petroleum hydrocarbons, or other regulated substances are present in the proposed bedding materials shipped by Vulcan Materials Company to properties owned or operated by the Los Angeles Unified School District.

If you have any questions or need additional information please call at 626 856 6190.

Timothy Reed
Manager Technical Services

TR /rm

Southern California Quality Control Department
16009 FOOTHILL BOULEVARD•IRWINDALE, CALIFORNIA 91706•TELEPHONE 626 856 6190•FAX 626 969 2918

Vulcan
Materials Company
WEST REGION

LOS ANGELES REGIONAL LABORATORY

16009 FOOTHILL BOULEVARD
IRWINDALE, CA 91706
TELEPHONE 626.856.6190
FAX 626.969.2918

April 4, 2016

Whittier Fertilizer

Projects: LAUSD

To Whom It May Concern:

In California, Vulcan Materials Company, West Region, does not quarry the ultramafic rock types that have been identified by the California Geological Survey as having the potential for containing naturally occurring asbestos.

If you have any questions, please call Timothy Reed at 626.856.6190.

Sincerely,

Timothy Reed
Manager Technical Services
TR/rm

Vulcan
Materials Company

Contractor: *Whittier Fertilizer*

April 4, 2016

Project: *LAUSD*

Plant: *Vulcan Materials / Reliance*

Material: *Cone Fines / Fill Sand*

This is to certify that Vulcan Materials Company, Western Division, Reliance, will supply Cone Fines as Fill Sand to the above listed project and that this product is a Non-Specification material.

Sieve Size		Non-Specification	Percent Passing
9.5 mm	(3/8")	—	100
4.75 mm	(No. 4)	—	100
2.36 mm	(No. 8)	—	100
1.18 mm	(No. 16)	—	100
600 um	(No. 30)	—	100
300 um	(No. 50)	—	91
150 um	(No. 100)	—	46
75 um	(No. 200)	—	14.0

	Method	Result
Sand Equivalent	CTM 217	82

REGISTERED PROFESSIONAL ENGINEER
ROBERT KUHN
No. C[illegible]678
Exp 12-31-17
CIVIL
STATE OF CALIFORNIA

Submitted by

Timothy Reed
Manager Technical Services
TR/rm

Southern California Regional Laboratory
16009 Foothill Boulevard • Irwindale, California 91706 • Tel (626) 856-6190

AMRL Certified

Please Note: NOT VALID IF ALTERED