TRC
1430 Broadway, 10th Floor
New York, New York, 10018

Main 212.221.7822
Fax 212.221.7840

Transmittal

To:	Anna Ciecierska IEH Division New York City School Construction Authority 30-30 Thomson Avenue Long Island City, NY 11101-3045 (718) 752-5028	**Date**:	March 14, 2016
		TRC No:	252029.0000.0000
		Project:	PS 625M 439 West 49th Street New York, New York LLW#: 088173

We have enclosed:

☐ B/W Prints ☐ Reproducible ☐ Reports ☐ Letter

☐ Specifications ☐ Memorandum X Contractor Submittals

Description

Waste Material Profile/Waste Characterization Data
Approved as Noted

Sent Via:

☐ Messenger ☐ 1st Class Mail ☐ FedEx [Type] X Email

Copy to: M. Wagner (NYCSCA)
M. Sherwood (NYCSCA)

Very truly yours,
TRC

Kevin Boger

TRC Engineers, Inc. (TRC) has completed a review of waste characterization data and the waste material profile form submitted for the PS 625M site. The Contractor submitted one sample, "Stockpiles", for laboratory analysis. The sample was collected on February 25, 2016.

Based on a review of the documentation provided, TRC offers the following comments:

The submittal has been stamped "**approved as noted**."

1. Prior to transporting any excavated material off-site, the Contractor must submit the following items for each proposed disposal facility (see Section 02200, Article 3.06-(B)(12)):

    a. A letter from the disposal facility stating that it can accept the excavated material. The letter should reference each laboratory sample ID for the waste characterization samples for the accepted material.

The comments should not be construed in any way as intent to limit the Contractor's responsibilities. The absence of a comment with respect to a specific contract requirement should not be interpreted as a suggestion to change a contract requirement.

CLEANEARTH
Faster, smarter, greener solutions..

EXHIBIT A
Material Profile Sheet

Global Job # _____
Sales Rep _____

Check each site you would like to utilize for this waste approval:

☒ Clean Earth of Carteret, Inc.
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland, Inc.
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of Southeast Pennsylvania, Inc.
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Clean Earth of Philadelphia, Inc
3201 South 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of New Castle, Inc.
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6634

☐ Clean Earth of North Jersey, Inc.
115 Jacobus Avenue
South Kearny, NJ 07032
Ph: 973-344-4004

A. Waste Generator/Job Site Information

1. Generator Name:	NYCSCA	9. Job Site Name:	NYCSCA M625 HS of Graphic Arts
2. Generator Address:	30-30 Thomson Avenue	10. Job Site Address:	439 West 49th Street
3. Generator City:	Long Island City	11. Job Site City:	Manhattan
4. Generator State/Zip:	New York, 11101	12. Job Site State/Zip:	New York, 10019
5. Generator Phone:	718-472-8501	13. Job Site Phone:	212-222-2494
6. Generator Contact:	Alexander Lempert	14. Job Site Contact:	Jennifer Dwyer
7. Generator Email:	Alempert@nycsca.org	15. Job Site Email:	Jennifer@dbcnewyork.com
8. Generator County:	Queens	16. Job Site County:	New York City

Billing Information

17. Customer Name:	PAL Environmental Services	21. Customer Phone:	718-349-0900
18. Customer Address:	11-02 Queens Plaza South	22. Customer Contact:	Michael Baldwin
19. Customer City:	Long Island City	23. Customer Email:	Mbaldwin@palcorp.com
20. Customer State/Zip:	New York 11101	24. Customer County:	Queens

B. Waste Stream Information

1. Name of Waste: Non Hazardous contaminated soi
2. State Waste Code(s) (if applicable): _____
3. Process Generating Waste (attach separate sheet if necessary): Cafeteria Upgrade

4. Estimated Quantity of Waste: 150 ☒ Tons ☐ Cubic Yards ☐ Gallons
5. Term of Project: ☐ Recurring ☒ One Time

C. Waste Composition/Characteristics

1. Source of Contamination (ie. UST, AST, leak, spill, non specific): Non Specific
2. Type of Contamination (ie. diesel, gasoline, waste oil, heating oil, MGP, etc.): Refer to laboratory analytical report
3. Contaminants of Concern: See Data
4. Provide a site history detailing past and present land uses, on site storage/process information and any activities related to contaminants of concern (attach a separate sheet if necessary): Site is currently a high school
5. Composition of Waste (clay, rock, sand, moisture, chemical, constituents, contaminants, etc.; should equal 100%):
   - Sand 80 %
   - rock 5 %
   - Concrete Fragments 15 %
   - _____ %
6. Is this site a State or Federal Superfund Site? ☐ Yes ☒ No
7. Is laboratory report being supplied with this profile? ☒ Yes ☐ No
   7a. If yes, you will need to attach a sampling plan description and diagram of sampling locations that ties to the data. Please refer to the "Site Sampling Diagram" form in your approval package for guidance.
8. Is the waste represented in this waste profile classified as a radioactive material under USEPA 40CFR 191.12 or other applicable regulatory provisions? Material has not been tested for radiological characteristics and not suspected ☐ Yes ☒ No
9. Does the waste represented contain any levels of polychlorinated biphenyls (PCBs)? ☐ Yes ☒ No
   9a. If yes, list the level: _____
   9b. If yes, is the waste material TSCA regulated or defined as a PCB remediation waste under TSCA? ☐ Yes ☐ No ☐ N/A
10. Does the waste represented contain herbicides, pesticides, asbestos, insecticides or residues thereof at concentrations that would render it hazardous as defined by 40 CFR 261 or subject to additional state or federal regulations? Material was not tested for herbicides,pesticides,asbestos or incecticides and not suspected ☐ Yes ☒ No

Non Hazardous Profile Sheet

Global Job # _____

Sales Rep _____

C. Waste Composition/Characteristics (continued)

11. The waste represented in this profile is generated as a result of the corrective response taken under the Federal Underground Storage Tank Regulation 40 CFR 280.	☐Yes ☒No
12. Is the waste a dioxin bearing waste? Material not tested for dioxins and not suspected	☐Yes ☒No
13. Is this waste a treatment residue from a previously listed or characteristic hazardous waste?	☐Yes ☒No
14. Is there a nuisance level of odor associated with this waste?	☐Yes ☒No
15. Are there any special handling instructions for management of this waste?	☐Yes ☒No
16. If yes to any of the questions numbered 6-15, please explain (attach an additional sheet if necessary): _____	

D. Generator Certification

1. I certify that the waste represented by this profile is not a listed hazardous waste, nor does it contain a listed hazardous waste, nor does it exhibit any characteristics of a hazardous waste as defined by 40 CFR 261.	☒Yes ☐No
2. I certify that this waste profile and all attachments contain true and accurate descriptions of the waste material.	☒Yes ☐No
3. I certify that all relevant information in possession of the Generator pertaining to known or suspected hazards with regard to the waste has been disclosed to Clean Earth.	☒Yes ☐No
4. I certify that all changes that occur in the characteristics of the waste will be identified by the Generator and disclosed to Clean Earth prior to providing the waste to Clean Earth.	☒Yes ☐No
5. I certify that the analytical data attached hereto are derived from testing representative sample(s) as referenced in 40 CFR 261.20 or an equivalent state regulatory provision.	☒Yes ☐No ☐N/A
6. For sites that contain "clean fill," the undersigned certifies that a site investigation was conducted and that the soil was characterized according to the proposed Clean Earth facility(s) acceptance criteria for soil classification as "clean fill" and where applicable in accordance with the Pennsylvania Management of Fill Policy.	☐Yes ☐No ☒N/A
7. The undersigned has determined the non-hazardous status of the said waste in accordance with 40 CFR 261.11. Should, at any time after delivery, the material accepted by Clean Earth be found to be non-conforming to the information certified in this profile and represented by documentation attached hereto, it becomes the responsibility of the Generator/Agent to remove the waste from the designated Clean Earth facility within five (5) days of notification. Notification is to be verbal followed by written notification, overnight receipted. It is the Generator's/ Agent's responsibility to abide by all Federal, State and Local regulations associated with the removal of their waste. If the waste is not removed within the specified time period, said disposal shall be arranged by a Clean Earth representative and billed to the Generator/Agent at cost plus basis. Furthermore, the Generator/Agent will be responsible for any and all cost for decontamination required by the Clean Earth facility that is related to the Generator's/Agent's material and all liability for such nonconforming waste shall revert to Generator/Agent.	☒Yes ☐No

*Certification

Signature: _____ Date: _____

Name (Type or Print): _____ Company: _____

*If someone other than the Generator is signing this profile or intends to sign any paperwork (which includes, but is not limited to, additional certifications, manifests, etc.) pertaining to this waste profile, authorization from the Generator, on the Generator's letterhead, must be supplied to Clean Earth prior to acceptance of waste material.

E. Clean Earth Waste Approval Decision

1. Treatment Option(s) _____
2. Proposed Treatment Facility(s) _____
3. Supplemental Information (special handling, hours of acceptance,etc): _____

4. Approval Decision: ☐ Approved ☐ Denied | Approved tonnages: _____

4a.If denied, please indicate reason in the space provided: _____

5. Approval Signature: _____ Date: _____

6. Facility Manager's Signature: _____ Date: _____

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

March 02, 2016

Matt Simpson
PAL Environmental Services
11-02 Queens Plaza South
Long Island City, NY 11101
TEL: (718) 349-0900
FAX (718) 349-2800

RE: High School of Graphic Arts; 439 W. 49th Order No.: 1602167

Dear Matt Simpson:

American Analytical Laboratories, LLC. received 1 sample(s) on 2/25/2016 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report. The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer

Lori Beyer
Lab Director
American Analytical Laboratories, LLC.

SHOP DRAWING REVIEW

	Date	Reviewer
___ Approved		
X Approved-as-Noted	3/14/16	
___ Revise and Resubmit		
___ Received No Action Taken		
___ Rejected		

Engineer's review is for general conformance with the design concept and contract documents. Marking or comments shall not be construed as relieving the contractor from compliance with the project plans and specifications, nor departures there from. The contractor remains responsible for details and accuracy, for confirming and correlating all quantities and dimensions, for selecting fabrication process, for techniques of assembly, and performing the work in Page 1 of 50 and in accordance with all applicable codes.

TRC ENGINEERS, INC.

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Workorder Sample Summary

WO#: **1602167**

02-Mar-16

CLIENT: PAL Environmental Services
Project: High School of Graphic Arts; 439 W. 49th St, N

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1602167-001A	Stockpiles		2/24/2016 3:45:00 PM	2/25/2016 7:35:00 AM	Soil
1602167-001B	Stockpiles		2/24/2016 3:45:00 PM	2/25/2016 7:35:00 AM	Soil
1602167-001C	Stockpiles		2/24/2016 3:45:00 PM	2/25/2016 7:35:00 AM	Soil
1602167-001D	Stockpiles		2/24/2016 3:45:00 PM	2/25/2016 7:35:00 AM	Soil

AMERICAN ANALYTICAL LABORATORIES

CHAIN OF CUSTODY

56 Toledo Street, Farmingdale NY 11735
(T) 631-454-6100 (F) 631-454-8027
www.american-analytical.com

CERTIFICATIONS
NY ELAP - 11418 PA DEP - 68-00573
NJ DEP - NY050 CT DOH - PH-0205

Client Information

Company Name: PAL Environmental Services
Address: 11-02 Queens Plaza South
City: Long Island City State: NY Zip: 11101
Project Contact: Matt Simpson
Phone #: 718-349-0900
E-mail: MSimpson@Palcorp.com

Project Information

Project Name: High school of Graphic Arts
Street: 439 W. 49th St
City: New York State: NY Zip:
Project #:
Sampler's Name / Company: Michael Baldwin - PAL Environmental
Sampler's Signature: Mb Baldwin

Analytical Information

Cartret Protocol

LAB SAMPLE # (LAB USE ONLY)	Client Sample ID	Sample Type	Matrix Code	Date	Time	Glass / Plastic	Total # of bottles	NONE	HCl	NaOH	HNO_3	H_2SO_4	$NaHSO_4$	MeOH	OTHER	Cartret Protocol
1602167-001	Stockpiles	G/C	S	2/24/16	3:45	G	2	X								X

Turnaround Time (Business Days)

- [x] Standard 7-10 Business Days
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [x] 2 Day *RUSH*
- [ ] 1 Day *RUSH*

SAMPLE TYPE

G = Grab
C = Composite
B = Blank

MATRIX CODES

L = Liquid
S = Soil
O = Oil
W = Wipe
PC = Paint Chip
SL = Sludge
SD = Solid
M = Miscellaneous

Comments / Remarks

Cooler Temp: 3.6°C

Sample custody must be documented below, each time samples change possession, with a signature, date, and time.

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
Mb Baldwin	2/25/16 735	Michael Baldwin	Joe	2/25/16 7:35	Joe Gerald
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Sample Log-In Check List

Client Name: **PAL ENVIRONMENTAL** Work Order Number: **1602167** RcptNo: **1**

Logged by:	**Lori Beyer**	**2/25/2016 7:35:00 AM**	Lori Beyer
Completed By:	**Lori Beyer**	**2/25/2016 10:23:23 AM**	Lori Beyer
Reviewed By:	**Karen Kelly**	**2/25/2016**	Karen Kelly

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☑
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☑ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

18. Additional remarks:

    VOC Sample not collected per method 5035A

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By

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Farmingdale, New York 11735
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Website: www.American-Analytical.com

Case Narrative

WO#: **1602167**
Date: **3/2/2016**

CLIENT: PAL Environmental Services
Project: High School of Graphic Arts; 439 W. 49th St, N

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846 and additional methods as detailed throughout the text of the report. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives with exceptions notated in this Narrative discussion and/or in the QC Summary Section of the lab report with appropriate qualifiers. Additional quality control information such as surrogate recovery values for organic testing is provided as part of the analytical results. Batch MS/MSD results are provided in the QC section of the lab report unless the MS/MSD summary forms indicate one of your sample identifications. MS/MSD results relate only to the parent sample that was spiked.

Soil sample results analyzed for Volatile Organics potentially may be estimated, "J" (biased low) since the samples for this test were not collected according to the 5035A Method. Volatile LCS are analyzed with preservatives - HCL/NaHSO4/Methanol depending on level of analysis (high/low) similar to sample analysis. Outliers can be attributed to the presence of chemical preservatives. 2-Chloroethyl vinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

PCB analysis is analyzed on two distinct columns. Once a target compound is qualitatively confirmed by detection on both columns and quantitation is determined to be >40% between the two columns, AAL's policy is to report the lower of the values as suggested by SW846 Method 8000C in cases where no interference exists. If in the professional judgment of the laboratory, the higher value must be utilized this is explained in the lab report.

The following parameters (if included in this report) are not offered by NY ELAP: VOA 8260 Soil; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Diisopropyl ether, Ethanol, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Isopropyl Acetate, n-Amyl Acetate, n-Butyl Acetate, n-Propyl Acetate. VOA 8260 Liquid; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Isopropyl Acetate, n-Amyl acetate, n-Butyl Acetate, n-Propyl Acetate. Pesticides 8081 Soil; DBCP. Herbicides 8151 Soil; 3,5-Dichlorobenzoic Acid, 4-Nitrophenol, Acifluorfen, Bentazon, Chloramben, DCPA, Picloram .Lachat 10-107-6-1B Ammonia in Soil, SM 2540G Total Volatile Solids, Soil TKN, Soil Organic Nitrogen, Percent Moisture, pH in non-potable water and temperature at which pH is measured, SM 4500-SO3 B Sulfite in Liquid, Total Sulfur in Soil, Acid Soluble Chloride by ASTMC1152, Water Soluble Chloride by ASTMC1218, Chlorine Demand by SM 2350 B,

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Case Narrative

WO#: **1602167**
Date: **3/2/2016**

CLIENT: PAL Environmental Services
Project: High School of Graphic Arts; 439 W. 49th St, N

Total Residual Chlorine in Liquid and Nitrate-Nitrite, Nitrogen in non-potable water and Reactivity to Sulfide and Reactivity to Cyanide.

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical report is the sole property of American Analytical Laboratories, LLC. or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.

Definitions:

Sample Result and QC Summary Qualifiers - Level I and Level II Reports
ND - Not detected at the reporting limit/Limit of Quantitation

B - The analyte was detected in the associated method blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <5x the blank value as artifact.

E - The value is above the quantitation range

D - Analyte concentration was obtained from diluted analysis or from analysis using reduced sample volume.

J - The analyte was detected below the limit of quantitation but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

U - The compound was analyzed for but not detected.

H - Holding time for preparation or analysis has been exceeded.

S - Spike recovery is outside accepted recovery limits.

R - RPD is outside accepted recovery range.

P - Secondary column exceeds 40% difference for GC test.

* - Calibration exceeds method requirement. Due to the large number of analytes for organic testing, the method allows 10% of analytes to have %RSD and/or %D to be >20%.

LOD - Limit of Detection; the lowest level the analyte can be determined to be statistically different from a blank.

LOQ - Limit of Quantitation; the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accurary.
m - Analyte was manually integrated for GC/MS.
+ - Concentration exceeds regulatory level for TCLP

American Analytical Laboratories, LLC.

Date: *02-Mar-16*

ELAP ID : 11418

CLIENT:	PAL Environmental Services	**Client Sample ID:**	Stockpiles
Lab Order:	1602167	**Collection Date:**	2/24/2016 3:45:00 PM
Project:	High School of Graphic Arts; 439 W. 49th St, N	**Matrix:**	SOIL
Lab ID:	1602167-001A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
1,1,1,2-Tetrachloroethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,1,1-Trichloroethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,1,2,2-Tetrachloroethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethan	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,1,2-Trichloroethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,1-Dichloroethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,1-Dichloroethene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,1-Dichloropropene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,2,3-Trichlorobenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,2,3-Trichloropropane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,2,4,5-Tetramethylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,2,4-Trichlorobenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,2,4-Trimethylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,2-Dibromo-3-chloropropane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,2-Dibromoethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,2-Dichlorobenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,2-Dichloroethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,2-Dichloropropane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,3,5-Trimethylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,3-Dichlorobenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,3-dichloropropane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,4-Dichlorobenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
1,4-Dioxane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
2,2-Dichloropropane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
2-Butanone	ND	5.3	11	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
2-Chloroethyl vinyl ether	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
2-Chlorotoluene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
2-Hexanone	ND	5.3	11	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
2-Propanol	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
4-Chlorotoluene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
4-Isopropyltoluene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
4-Methyl-2-pentanone	ND	5.3	11	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Acetone	ND	5.3	11	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, New York, Zip - 11735
Tel - (631) 454-6100 Fax - (631) 454-8027 www.american-analytical.com

American Analytical Laboratories, LLC.

Date: *02-Mar-16*

ELAP ID : 11418

CLIENT:	PAL Environmental Services	**Client Sample ID:**	Stockpiles
Lab Order:	1602167	**Collection Date:**	2/24/2016 3:45:00 PM
Project:	High School of Graphic Arts; 439 W. 49th St, N	**Matrix:**	SOIL
Lab ID:	1602167-001A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
Benzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Bromobenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Bromochloromethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Bromodichloromethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Bromoform	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Bromomethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Carbon disulfide	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Carbon tetrachloride	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Chlorobenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Chlorodifluoromethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Chloroethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Chloroform	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Chloromethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
cis-1,2-Dichloroethene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
cis-1,3-Dichloropropene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Cyclohexane	ND	2.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Dibromochloromethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Dibromomethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Dichlorodifluoromethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Diisopropyl ether	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Ethanol	ND	11	21	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Ethylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Freon-114	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Hexachlorobutadiene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Isopropylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
m,p-Xylene	ND	2.1	11	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Methyl Acetate	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Methyl tert-butyl ether	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Methylene chloride	ND	5.3	11	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
n-Butylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
n-Propylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Naphthalene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
o-Xylene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM

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American Analytical Laboratories, LLC.

Date: *02-Mar-16*

ELAP ID : 11418

CLIENT:	PAL Environmental Services	**Client Sample ID:**	Stockpiles
Lab Order:	1602167	**Collection Date:**	2/24/2016 3:45:00 PM
Project:	High School of Graphic Arts; 439 W. 49th St, N	**Matrix:**	SOIL
Lab ID:	1602167-001A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5035A**		Analyst: **LA**
p-Diethylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
p-Ethyltoluene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
sec-Butylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Styrene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
t-Butyl alcohol	ND	2.7	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
tert-Butylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Tetrachloroethene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Toluene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
trans-1,2-Dichloroethene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
trans-1,3-Dichloropropene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Trichloroethene	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Trichlorofluoromethane	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Vinyl acetate	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Vinyl chloride	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Xylenes, Total	ND	3.2	11	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Acrolein	ND	13	27	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Acrylonitrile	ND	1.1	5.3	U	µg/Kg-dry	1	2/25/2016 2:01:00 PM
Surr: 4-Bromofluorobenzene	100	0	48-136		%Rec	1	2/25/2016 2:01:00 PM
Surr: Dibromofluoromethane	109	0	44-154		%Rec	1	2/25/2016 2:01:00 PM
Surr: Toluene-d8	105	0	58-141		%Rec	1	2/25/2016 2:01:00 PM

American Analytical Laboratories, LLC.

Date: *02-Mar-16*

ELAP ID : 11418

CLIENT:	PAL Environmental Services	**Client Sample ID:**	Stockpiles
Lab Order:	1602167	**Collection Date:**	2/24/2016 3:45:00 PM
Project:	High School of Graphic Arts; 439 W. 49th St, N	**Matrix:**	SOIL
Lab ID:	1602167-001B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TOTAL DRO AS #2 FUEL (C8-C44)			**SW8015D**		**SW3546**		Analyst: **SB**
Total DRO TPH	37	2.6	5.3		mg/Kg-dry	1	3/1/2016 4:39:00 PM
Surr: o-Terphenyl	67.2	0	11-145		%Rec	1	3/1/2016 4:39:00 PM

American Analytical Laboratories, LLC.

Date: *02-Mar-16*

ELAP ID : 11418

CLIENT:	PAL Environmental Services	**Client Sample ID:**	Stockpiles
Lab Order:	1602167	**Collection Date:**	2/24/2016 3:45:00 PM
Project:	High School of Graphic Arts; 439 W. 49th St, N	**Matrix:**	SOIL
Lab ID:	1602167-001C		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**SW7471B**		**SW7471B**		Analyst: **JP**
Mercury	0.189	00823	0.0154		mg/Kg-dry	1	3/1/2016 2:14:48 PM
PCB'S AS AROCLORS SW-846 METHOD 8082			**SW8082A**		**SW3546**		Analyst: **SB**
Aroclor 1016	ND	10	21	U	µg/Kg-dry	1	2/26/2016 6:13:00 PM
Aroclor 1221	ND	10	21	U	µg/Kg-dry	1	2/26/2016 6:13:00 PM
Aroclor 1232	ND	10	21	U	µg/Kg-dry	1	2/26/2016 6:13:00 PM
Aroclor 1242	ND	10	21	U	µg/Kg-dry	1	2/26/2016 6:13:00 PM
Aroclor 1248	ND	10	21	U	µg/Kg-dry	1	2/26/2016 6:13:00 PM
Aroclor 1254	ND	10	21	U	µg/Kg-dry	1	2/26/2016 6:13:00 PM
Aroclor 1260	ND	10	21	U	µg/Kg-dry	1	2/26/2016 6:13:00 PM
Aroclor 1262	ND	10	21	U	µg/Kg-dry	1	2/26/2016 6:13:00 PM
Aroclor 1268	ND	10	21	U	µg/Kg-dry	1	2/26/2016 6:13:00 PM
Surr: DCB	69.3	0	11-146		%Rec	1	2/26/2016 6:13:00 PM
Surr: DCB	81.9	0	11-146		%Rec	1	2/26/2016 6:13:00 PM
Surr: TCX	78.3	0	11-147		%Rec	1	2/26/2016 6:13:00 PM
Surr: TCX	85.8	0	11-147		%Rec	1	2/26/2016 6:13:00 PM
PERCENT MOISTURE			**D2216**				Analyst: **KK**
Percent Moisture	5.59	0	1.00		wt%	1	2/26/2016 4:52:55 PM
TOTAL METALS			**SW6010C**		**SW3050B**		Analyst: **JP**
Arsenic	2.78	0.212	0.530		mg/Kg-dry	1	3/1/2016 10:24:12 AM
Barium	468	0.212	0.424		mg/Kg-dry	1	3/1/2016 10:24:12 AM
Cadmium	0.111	0.106	0.424	J	mg/Kg-dry	1	3/1/2016 10:24:12 AM
Chromium	11.7	0.106	0.424		mg/Kg-dry	1	3/1/2016 10:24:12 AM
Lead	674	0.212	0.424		mg/Kg-dry	1	3/1/2016 10:24:12 AM
Selenium	ND	0.212	0.530	U	mg/Kg-dry	1	3/1/2016 10:24:12 AM
Silver	0.851	0.106	0.424		mg/Kg-dry	1	3/1/2016 10:24:12 AM
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Acenaphthene	63	26	260	J	µg/Kg-dry	1	3/1/2016 8:54:00 PM
Acenaphthylene	61	26	260	J	µg/Kg-dry	1	3/1/2016 8:54:00 PM
Anthracene	200	26	260	J	µg/Kg-dry	1	3/1/2016 8:54:00 PM
Benzo(a)anthracene	720	26	260		µg/Kg-dry	1	3/1/2016 8:54:00 PM
Benzo(a)pyrene	610	26	160		µg/Kg-dry	1	3/1/2016 8:54:00 PM

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American Analytical Laboratories, LLC.

Date: *02-Mar-16*

ELAP ID : 11418

CLIENT:	PAL Environmental Services	**Client Sample ID:**	Stockpiles
Lab Order:	1602167	**Collection Date:**	2/24/2016 3:45:00 PM
Project:	High School of Graphic Arts; 439 W. 49th St, N	**Matrix:**	SOIL
Lab ID:	1602167-001C		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE SW-846 METHOD 8270			**SW8270D**		**SW3546**		Analyst: **SB**
Benzo(b)fluoranthene	580	26	260		µg/Kg-dry	1	3/1/2016 8:54:00 PM
Benzo(g,h,i)perylene	440	26	260		µg/Kg-dry	1	3/1/2016 8:54:00 PM
Benzo(k)fluoranthene	460	26	260		µg/Kg-dry	1	3/1/2016 8:54:00 PM
Chrysene	770	26	260		µg/Kg-dry	1	3/1/2016 8:54:00 PM
Dibenzo(a,h)anthracene	110	26	160	J	µg/Kg-dry	1	3/1/2016 8:54:00 PM
Fluoranthene	1700	26	260		µg/Kg-dry	1	3/1/2016 8:54:00 PM
Fluorene	53	26	260	J	µg/Kg-dry	1	3/1/2016 8:54:00 PM
Indeno(1,2,3-c,d)pyrene	450	26	260		µg/Kg-dry	1	3/1/2016 8:54:00 PM
Naphthalene	35	26	260	J	µg/Kg-dry	1	3/1/2016 8:54:00 PM
Phenanthrene	1200	26	260		µg/Kg-dry	1	3/1/2016 8:54:00 PM
Pyrene	1500	26	260		µg/Kg-dry	1	3/1/2016 8:54:00 PM
Surr: 2-Fluorobiphenyl	75.9	0	15-128		%Rec	1	3/1/2016 8:54:00 PM
Surr: 4-Terphenyl-d14	82.4	0	10-138		%Rec	1	3/1/2016 8:54:00 PM
Surr: Nitrobenzene-d5	69.3	0	10-128		%Rec	1	3/1/2016 8:54:00 PM

American Analytical Laboratories, LLC.

Date: *02-Mar-16*

ELAP ID : 11418

CLIENT:	PAL Environmental Services	**Client Sample ID:**	Stockpiles
Lab Order:	1602167	**Collection Date:**	2/24/2016 3:45:00 PM
Project:	High School of Graphic Arts; 439 W. 49th St, N	**Matrix:**	SOIL
Lab ID:	1602167-001D		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TCLP MERCURY			**SW1311/7470A**		**SW1311/6010C**		Analyst: **JP**
Mercury	0.00215	00488	0.0195	J	mg/L	1	3/1/2016 1:39:38 PM
TCLP METALS			**SW1311/6010C**		**SW3010A**		Analyst: **JP**
Arsenic	ND	).0100	0.0500	U	mg/L	1	3/1/2016 11:40:44 AM
Barium	0.668	0.200	0.500		mg/L	1	3/1/2016 11:40:44 AM
Cadmium	ND	00500	0.0500	U	mg/L	1	3/1/2016 11:40:44 AM
Chromium	ND	00500	0.0500	U	mg/L	1	3/1/2016 11:40:44 AM
Lead	0.548	00500	0.0500		mg/L	1	3/1/2016 11:40:44 AM
Selenium	ND	).0100	0.0500	U	mg/L	1	3/1/2016 11:40:44 AM
Silver	0.00799	00500	0.0500	J	mg/L	1	3/1/2016 11:40:44 AM
IGNITABILITY/FLASHPOINT SW-846 1020			**SW1020**				Analyst: **STP**
Ignitability	ND	65.0	140	U	°F	1	2/25/2016 2:49:11 PM
SOIL PH MEASURED IN WATER			**SW9045D**				Analyst: **PAV**
pH	7.78	0.500	1.00		pH Units	1	2/25/2016 3:15:00 PM
TEMPERATURE			**M2550 B**				Analyst: **PAV**
Temp at which pH was measured	18.1	0	0		°C	1	2/25/2016 3:15:00 PM
REACTIVE CYANIDE			**SW7.3.3.2**				Analyst: **STP**
Reactive Cyanide	ND	).0500	0.100	U	mg/Kg	1	2/25/2016 1:07:18 PM
REACTIVE SULFIDE			**SW7.3.4.2**				Analyst: **STP**
Reactive Sulfide	ND	1.00	2.00	U	mg/Kg	1	2/25/2016 4:04:40 PM

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Farmingdale, New York 11735
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Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8257**

Sample ID **LCS-8257** SampType: **LCS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14320**

Client ID: **LCSS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **262050**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	46	5.0	50.00	0	92.2	42	145				
1,1,2,2-Tetrachloroethane	35	5.0	50.00	0	71.0	44	138				
1,1,2-Trichloroethane	43	5.0	50.00	0	85.2	47	135				
1,1-Dichloroethane	42	5.0	50.00	0	83.1	41	134				
1,1-Dichloroethene	43	5.0	50.00	0	85.6	48	145				
1,2-Dichlorobenzene	42	5.0	50.00	0	84.8	39	124				
1,2-Dichloroethane	42	5.0	50.00	0	84.3	46	140				
1,2-Dichloropropane	42	5.0	50.00	0	84.5	44	130				
1,3-Dichlorobenzene	43	5.0	50.00	0	85.0	24	136				
1,4-Dichlorobenzene	43	5.0	50.00	0	86.0	23	128				
2-Chloroethyl vinyl ether	25	5.0	50.00	0	49.5	21	130				
Benzene	42	5.0	50.00	0	84.0	47	133				
Bromodichloromethane	45	5.0	50.00	0	90.1	48	125				
Bromoform	44	5.0	50.00	0	88.3	27	140				
Bromomethane	34	5.0	50.00	0	67.5	20	153				
Carbon tetrachloride	48	5.0	50.00	0	96.3	49	141				
Chlorobenzene	44	5.0	50.00	0	87.1	45	130				
Chloroethane	37	5.0	50.00	0	74.5	37	150				
Chloroform	43	5.0	50.00	0	86.2	43	136				
Chloromethane	32	5.0	50.00	0	64.3	27	146				
cis-1,3-Dichloropropene	45	5.0	50.00	0	91.0	47	130				
Dibromochloromethane	46	5.0	50.00	0	91.4	42	137				
Ethylbenzene	43	5.0	50.00	0	85.5	46	131				
Methylene chloride	22	10	50.00	0	44.1	20	125				
Tetrachloroethene	44	5.0	50.00	0	88.5	33	120				
Toluene	45	5.0	50.00	0	90.9	50	130				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

Original

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Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8257**

Sample ID **LCS-8257** SampType: **LCS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14320**

Client ID: **LCSS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **262050**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	46	5.0	50.00	0	91.0	45	141				
trans-1,3-Dichloropropene	45	5.0	50.00	0	91.0	46	135				
Trichloroethene	46	5.0	50.00	0	91.8	46	129				
Trichlorofluoromethane	40	5.0	50.00	0	79.3	46	151				
Vinyl chloride	36	5.0	50.00	0	72.1	43	153				
Surr: 4-Bromofluorobenzene	50		50.00		101	48	136				
Surr: Dibromofluoromethane	51		50.00		103	44	154				
Surr: Toluene-d8	51		50.00		101	58	141				

Sample ID **MB-8257** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14320**

Client ID: **PBS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **262051**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									U
1,1,1-Trichloroethane	ND	5.0									U
1,1,2,2-Tetrachloroethane	ND	5.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0									U
1,1,2-Trichloroethane	ND	5.0									U
1,1-Dichloroethane	ND	5.0									U
1,1-Dichloroethene	ND	5.0									U
1,1-Dichloropropene	ND	5.0									U
1,2,3-Trichlorobenzene	ND	5.0									U
1,2,3-Trichloropropane	ND	5.0									U
1,2,4,5-Tetramethylbenzene	ND	5.0									U
1,2,4-Trichlorobenzene	ND	5.0									U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

Original

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Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8257**

Sample ID **MB-8257** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14320**

Client ID: **PBS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **262051**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	5.0									U
1,2-Dibromo-3-chloropropane	ND	5.0									U
1,2-Dibromoethane	ND	5.0									U
1,2-Dichlorobenzene	ND	5.0									U
1,2-Dichloroethane	ND	5.0									U
1,2-Dichloropropane	ND	5.0									U
1,3,5-Trimethylbenzene	ND	5.0									U
1,3-Dichlorobenzene	ND	5.0									U
1,3-dichloropropane	ND	5.0									U
1,4-Dichlorobenzene	ND	5.0									U
1,4-Dioxane	ND	5.0									U
2,2-Dichloropropane	ND	5.0									U
2-Butanone	ND	10									U
2-Chloroethyl vinyl ether	ND	5.0									U
2-Chlorotoluene	ND	5.0									U
2-Hexanone	ND	10									U
2-Propanol	ND	5.0									U
4-Chlorotoluene	ND	5.0									U
4-Isopropyltoluene	ND	5.0									U
4-Methyl-2-pentanone	ND	10									U
Acetone	11	10									
Benzene	ND	5.0									U
Bromobenzene	ND	5.0									U
Bromochloromethane	ND	5.0									U
Bromodichloromethane	ND	5.0									U
Bromoform	ND	5.0									U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

Original

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8257**

Sample ID **MB-8257** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14320**

Client ID: **PBS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **262051**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane	ND	5.0									U
Carbon disulfide	ND	5.0									U
Carbon tetrachloride	ND	5.0									U
Chlorobenzene	ND	5.0									U
Chlorodifluoromethane	ND	5.0									U
Chloroethane	ND	5.0									U
Chloroform	ND	5.0									U
Chloromethane	ND	5.0									U
cis-1,2-Dichloroethene	ND	5.0									U
cis-1,3-Dichloropropene	ND	5.0									U
Cyclohexane	ND	5.0									U
Dibromochloromethane	ND	5.0									U
Dibromomethane	ND	5.0									U
Dichlorodifluoromethane	ND	5.0									U
Diisopropyl ether	ND	5.0									U
Ethanol	ND	20									U
Ethylbenzene	ND	5.0									U
Freon-114	ND	5.0									U
Hexachlorobutadiene	ND	5.0									U
Isopropylbenzene	ND	5.0									U
m,p-Xylene	ND	10									U
Methyl Acetate	ND	5.0									U
Methyl tert-butyl ether	ND	5.0									U
Methylene chloride	ND	10									U
n-Butylbenzene	ND	5.0									U
n-Propylbenzene	ND	5.0									U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8257**

Sample ID **MB-8257** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14320**

Client ID: **PBS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **262051**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	5.0									U
o-Xylene	ND	5.0									U
p-Diethylbenzene	ND	5.0									U
p-Ethyltoluene	ND	5.0									U
sec-Butylbenzene	ND	5.0									U
Styrene	ND	5.0									U
t-Butyl alcohol	ND	5.0									U
tert-Butylbenzene	ND	5.0									U
Tetrachloroethene	ND	5.0									U
Toluene	ND	5.0									U
trans-1,2-Dichloroethene	ND	5.0									U
trans-1,3-Dichloropropene	ND	5.0									U
Trichloroethene	ND	5.0									U
Trichlorofluoromethane	ND	5.0									U
Vinyl acetate	ND	5.0									U
Vinyl chloride	ND	5.0									U
Xylenes, Total	ND	10									U
Acrolein	ND	25									U
Acrylonitrile	ND	5.0									U
Surr: 4-Bromofluorobenzene	52		50.00		104	48	136				
Surr: Dibromofluoromethane	55		50.00		110	44	154				
Surr: Toluene-d8	51		50.00		103	58	141				

Qualifiers:
S Spike Recovery outside accepted recovery limits
W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8257**

Sample ID **LCS-8257** SampType: **LCS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14312**

Client ID: **LCSS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **261985**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	46	5.0	50.00	0	92.2	42	145				
1,1,2,2-Tetrachloroethane	35	5.0	50.00	0	71.0	44	138				
1,1,2-Trichloroethane	43	5.0	50.00	0	85.2	47	135				
1,1-Dichloroethane	42	5.0	50.00	0	83.1	41	134				
1,1-Dichloroethene	43	5.0	50.00	0	85.6	48	145				
1,2-Dichlorobenzene	42	5.0	50.00	0	84.8	39	124				
1,2-Dichloroethane	42	5.0	50.00	0	84.3	46	140				
1,2-Dichloropropane	42	5.0	50.00	0	84.5	44	130				
1,3-Dichlorobenzene	43	5.0	50.00	0	85.0	24	136				
1,4-Dichlorobenzene	43	5.0	50.00	0	86.0	23	128				
2-Chloroethyl vinyl ether	25	5.0	50.00	0	49.5	21	130				
Benzene	42	5.0	50.00	0	84.0	47	133				
Bromodichloromethane	45	5.0	50.00	0	90.1	48	125				
Bromoform	44	5.0	50.00	0	88.3	27	140				
Bromomethane	34	5.0	50.00	0	67.5	20	153				
Carbon tetrachloride	48	5.0	50.00	0	96.3	49	141				
Chlorobenzene	44	5.0	50.00	0	87.1	45	130				
Chloroethane	37	5.0	50.00	0	74.5	37	150				
Chloroform	43	5.0	50.00	0	86.2	43	136				
Chloromethane	32	5.0	50.00	0	64.3	27	146				
cis-1,3-Dichloropropene	45	5.0	50.00	0	91.0	47	130				
Dibromochloromethane	46	5.0	50.00	0	91.4	42	137				
Ethylbenzene	43	5.0	50.00	0	85.5	46	131				
Methylene chloride	22	10	50.00	0	44.1	20	125				
Tetrachloroethene	44	5.0	50.00	0	88.5	33	120				
Toluene	45	5.0	50.00	0	90.9	50	130				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

Original

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8257**

Sample ID **LCS-8257** SampType: **LCS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14312**

Client ID: **LCSS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **261985**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	46	5.0	50.00	0	91.0	45	141				
trans-1,3-Dichloropropene	45	5.0	50.00	0	91.0	46	135				
Trichloroethene	46	5.0	50.00	0	91.8	46	129				
Trichlorofluoromethane	40	5.0	50.00	0	79.3	46	151				
Vinyl chloride	36	5.0	50.00	0	72.1	43	153				
Surr: 4-Bromofluorobenzene	50		50.00		101	48	136				
Surr: Dibromofluoromethane	51		50.00		103	44	154				
Surr: Toluene-d8	51		50.00		101	58	141				

Sample ID **MB-8257** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14312**

Client ID: **PBS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **261986**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									U
1,1,1-Trichloroethane	ND	5.0									U
1,1,2,2-Tetrachloroethane	ND	5.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0									U
1,1,2-Trichloroethane	ND	5.0									U
1,1-Dichloroethane	ND	5.0									U
1,1-Dichloroethene	ND	5.0									U
1,1-Dichloropropene	ND	5.0									U
1,2,3-Trichlorobenzene	ND	5.0									U
1,2,3-Trichloropropane	ND	5.0									U
1,2,4,5-Tetramethylbenzene	ND	5.0									U
1,2,4-Trichlorobenzene	ND	5.0									U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8257**

Sample ID **MB-8257** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14312**

Client ID: **PBS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **261986**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	5.0									U
1,2-Dibromo-3-chloropropane	ND	5.0									U
1,2-Dibromoethane	ND	5.0									U
1,2-Dichlorobenzene	ND	5.0									U
1,2-Dichloroethane	ND	5.0									U
1,2-Dichloropropane	ND	5.0									U
1,3,5-Trimethylbenzene	ND	5.0									U
1,3-Dichlorobenzene	ND	5.0									U
1,3-dichloropropane	ND	5.0									U
1,4-Dichlorobenzene	ND	5.0									U
1,4-Dioxane	ND	5.0									U
2,2-Dichloropropane	ND	5.0									U
2-Butanone	ND	10									U
2-Chloroethyl vinyl ether	ND	5.0									U
2-Chlorotoluene	ND	5.0									U
2-Hexanone	ND	10									U
2-Propanol	ND	5.0									U
4-Chlorotoluene	ND	5.0									U
4-Isopropyltoluene	ND	5.0									U
4-Methyl-2-pentanone	ND	10									U
Acetone	11	10									
Benzene	ND	5.0									U
Bromobenzene	ND	5.0									U
Bromochloromethane	ND	5.0									U
Bromodichloromethane	ND	5.0									U
Bromoform	ND	5.0									U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8257**

Sample ID **MB-8257** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14312**

Client ID: **PBS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **261986**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane	ND	5.0									U
Carbon disulfide	ND	5.0									U
Carbon tetrachloride	ND	5.0									U
Chlorobenzene	ND	5.0									U
Chlorodifluoromethane	ND	5.0									U
Chloroethane	ND	5.0									U
Chloroform	ND	5.0									U
Chloromethane	ND	5.0									U
cis-1,2-Dichloroethene	ND	5.0									U
cis-1,3-Dichloropropene	ND	5.0									U
Cyclohexane	ND	5.0									U
Dibromochloromethane	ND	5.0									U
Dibromomethane	ND	5.0									U
Dichlorodifluoromethane	ND	5.0									U
Diisopropyl ether	ND	5.0									U
Ethanol	ND	20									U
Ethylbenzene	ND	5.0									U
Freon-114	ND	5.0									U
Hexachlorobutadiene	ND	5.0									U
Isopropylbenzene	ND	5.0									U
m,p-Xylene	ND	10									U
Methyl Acetate	ND	5.0									U
Methyl tert-butyl ether	ND	5.0									U
Methylene chloride	ND	10									U
n-Butylbenzene	ND	5.0									U
n-Propylbenzene	ND	5.0									U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8257**

Sample ID **MB-8257** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14312**

Client ID: **PBS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **261986**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	5.0									U
o-Xylene	ND	5.0									U
p-Diethylbenzene	ND	5.0									U
p-Ethyltoluene	ND	5.0									U
sec-Butylbenzene	ND	5.0									U
Styrene	ND	5.0									U
t-Butyl alcohol	ND	5.0									U
tert-Butylbenzene	ND	5.0									U
Tetrachloroethene	ND	5.0									U
Toluene	ND	5.0									U
trans-1,2-Dichloroethene	ND	5.0									U
trans-1,3-Dichloropropene	ND	5.0									U
Trichloroethene	ND	5.0									U
Trichlorofluoromethane	ND	5.0									U
Vinyl acetate	ND	5.0									U
Vinyl chloride	ND	5.0									U
Xylenes, Total	ND	10									U
Acrolein	ND	25									U
Acrylonitrile	ND	5.0									U
Surr: 4-Bromofluorobenzene	52		50.00		104	48	136				
Surr: Dibromofluoromethane	55		50.00		110	44	154				
Surr: Toluene-d8	51		50.00		103	58	141				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

Original

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8257**

Sample ID **1602167-001AMS** SampType: **MS** TestCode: **8260_S** Units: **µg/Kg-dry** Prep Date: **2/25/2016** RunNo: **14312**

Client ID: **Stockpiles** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **261988**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	41	5.2	52.33	0	79.3	22	144				
1,1,2,2-Tetrachloroethane	35	5.2	52.33	0	67.4	21	133				
1,1,2-Trichloroethane	40	5.2	52.33	0	77.4	24	130				
1,1-Dichloroethane	37	5.2	52.33	0	71.4	29	138				
1,1-Dichloroethene	38	5.2	52.33	0	73.2	25	143				
1,2-Dichlorobenzene	32	5.2	52.33	0	62.0	14	130				
1,2-Dichloroethane	40	5.2	52.33	0	75.5	24	137				
1,2-Dichloropropane	39	5.2	52.33	0	73.8	30	132				
1,3-Dichlorobenzene	32	5.2	52.33	0	60.2	14	131				
1,4-Dichlorobenzene	32	5.2	52.33	0	60.7	19	128				
2-Chloroethyl vinyl ether	22	5.2	52.33	0	42.0	13	123				
Benzene	38	5.2	52.33	0	71.8	20	142				
Bromodichloromethane	41	5.2	52.33	0	78.3	24	126				
Bromoform	42	5.2	52.33	0	80.7	20	135				
Bromomethane	31	5.2	52.33	0	59.8	21	137				
Carbon tetrachloride	42	5.2	52.33	0	80.5	20	143				
Chlorobenzene	35	5.2	52.33	0	67.3	21	129				
Chloroethane	35	5.2	52.33	0	66.0	25	147				
Chloroform	39	5.2	52.33	0	75.2	34	133				
Chloromethane	32	5.2	52.33	0	62.1	30	148				
cis-1,3-Dichloropropene	39	5.2	52.33	0	75.3	20	130				
Dibromochloromethane	44	5.2	52.33	0	83.5	20	130				
Ethylbenzene	33	5.2	52.33	0	63.6	20	130				
Methylene chloride	21	10	52.33	0	39.9	20	130				
Tetrachloroethene	36	5.2	52.33	0	69.3	20	120				
Toluene	39	5.2	52.33	0	75.2	21	142				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

Original

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QC SUMMARY REPORT

WO#: **1602167**
02-Mar-16

Client: PAL Environmental Services
Project: High School of Graphic Arts; 439 W. 49th St, N **BatchID:** **8257**

Sample ID **1602167-001AMS** SampType: **MS** TestCode: **8260_S** Units: **µg/Kg-dry** Prep Date: **2/25/2016** RunNo: **14312**
Client ID: **Stockpiles** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **261988**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	41	5.2	52.33	0	78.3	28	132				
trans-1,3-Dichloropropene	39	5.2	52.33	0	75.3	20	130				
Trichloroethene	39	5.2	52.33	0	75.1	22	147				
Trichlorofluoromethane	37	5.2	52.33	0	70.0	42	149				
Vinyl chloride	34	5.2	52.33	0	65.0	35	152				
Surr: 4-Bromofluorobenzene	53		52.33		101	48	136				
Surr: Dibromofluoromethane	56		52.33		107	44	154				
Surr: Toluene-d8	55		52.33		104	58	141				

Sample ID **1602167-001AMSD** SampType: **MSD** TestCode: **8260_S** Units: **µg/Kg-dry** Prep Date: **2/25/2016** RunNo: **14312**
Client ID: **Stockpiles** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **261989**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	41	5.1	51.32	0	80.5	22	144	41.50	0.505	20	
1,1,2,2-Tetrachloroethane	33	5.1	51.32	0	63.7	21	133	35.27	7.57	20	
1,1,2-Trichloroethane	38	5.1	51.32	0	74.5	24	130	40.49	5.78	20	
1,1-Dichloroethane	37	5.1	51.32	0	72.4	29	138	37.34	0.510	20	
1,1-Dichloroethene	38	5.1	51.32	0	74.9	25	143	38.31	0.366	20	
1,2-Dichlorobenzene	31	5.1	51.32	0	60.2	14	130	32.43	4.80	20	
1,2-Dichloroethane	37	5.1	51.32	0	73.0	24	137	39.50	5.32	20	
1,2-Dichloropropane	38	5.1	51.32	0	73.2	30	132	38.60	2.66	20	
1,3-Dichlorobenzene	31	5.1	51.32	0	60.0	14	131	31.53	2.39	20	
1,4-Dichlorobenzene	31	5.1	51.32	0	60.2	19	128	31.74	2.68	20	
2-Chloroethyl vinyl ether	20	5.1	51.32	0	38.4	13	123	21.99	10.9	20	
Benzene	37	5.1	51.32	0	71.6	20	142	37.55	2.12	20	

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

Original

American Analytical Laboratories, LLC.
56 Toledo Street
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QC SUMMARY REPORT

WO#: **1602167**
02-Mar-16

Client: PAL Environmental Services
Project: High School of Graphic Arts; 439 W. 49th St, N
BatchID: **8257**

Sample ID **1602167-001AMSD** SampType: **MSD** TestCode: **8260_S** Units: **µg/Kg-dry** Prep Date: **2/25/2016** RunNo: **14312**
Client ID: **Stockpiles** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **261989**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	40	5.1	51.32	0	77.2	24	126	41.00	3.47	20	
Bromoform	39	5.1	51.32	0	76.8	20	135	42.25	6.93	20	
Bromomethane	32	5.1	51.32	0	61.8	21	137	31.31	1.30	20	
Carbon tetrachloride	42	5.1	51.32	0	81.2	20	143	42.15	1.17	20	
Chlorobenzene	34	5.1	51.32	0	66.5	21	129	35.23	3.15	20	
Chloroethane	34	5.1	51.32	0	66.1	25	147	34.55	1.78	20	
Chloroform	38	5.1	51.32	0	74.6	34	133	39.36	2.78	20	
Chloromethane	31	5.1	51.32	0	60.5	30	148	32.50	4.50	20	
cis-1,3-Dichloropropene	38	5.1	51.32	0	73.8	20	130	39.41	3.91	20	
Dibromochloromethane	41	5.1	51.32	0	79.7	20	130	43.69	6.64	20	
Ethylbenzene	33	5.1	51.32	0	64.5	20	130	33.29	0.583	20	
Methylene chloride	20	10	51.32	0	39.6	20	130	20.88	2.76	20	
Tetrachloroethene	36	5.1	51.32	0	70.7	20	120	36.29	0.0419	20	
Toluene	38	5.1	51.32	0	74.9	21	142	39.37	2.46	20	
trans-1,2-Dichloroethene	41	5.1	51.32	0	79.0	28	132	40.99	1.04	20	
trans-1,3-Dichloropropene	38	5.1	51.32	0	73.8	20	130	39.41	3.91	20	
Trichloroethene	39	5.1	51.32	0	75.6	22	147	39.29	1.32	20	
Trichlorofluoromethane	36	5.1	51.32	0	70.2	42	149	36.63	1.64	20	
Vinyl chloride	33	5.1	51.32	0	64.0	35	152	34.01	3.54	20	
Surr: 4-Bromofluorobenzene	51		51.32		100	48	136		0	20	
Surr: Dibromofluoromethane	55		51.32		107	44	154		0	20	
Surr: Toluene-d8	53		51.32		104	58	141		0	20	

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8257**

Sample ID **LCS-8257** SampType: **LCS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14311**

Client ID: **LCSS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **261980**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	46	5.0	50.00	0	92.2	42	145				
1,1,2,2-Tetrachloroethane	35	5.0	50.00	0	71.0	44	138				
1,1,2-Trichloroethane	43	5.0	50.00	0	85.2	47	135				
1,1-Dichloroethane	42	5.0	50.00	0	83.1	41	134				
1,1-Dichloroethene	43	5.0	50.00	0	85.6	48	145				
1,2-Dichlorobenzene	42	5.0	50.00	0	84.8	39	124				
1,2-Dichloroethane	42	5.0	50.00	0	84.3	46	140				
1,2-Dichloropropane	42	5.0	50.00	0	84.5	44	130				
1,3-Dichlorobenzene	43	5.0	50.00	0	85.0	24	136				
1,4-Dichlorobenzene	43	5.0	50.00	0	86.0	23	128				
2-Chloroethyl vinyl ether	25	5.0	50.00	0	49.5	21	130				
Benzene	42	5.0	50.00	0	84.0	47	133				
Bromodichloromethane	45	5.0	50.00	0	90.1	48	125				
Bromoform	44	5.0	50.00	0	88.3	27	140				
Bromomethane	34	5.0	50.00	0	67.5	20	153				
Carbon tetrachloride	48	5.0	50.00	0	96.3	49	141				
Chlorobenzene	44	5.0	50.00	0	87.1	45	130				
Chloroethane	37	5.0	50.00	0	74.5	37	150				
Chloroform	43	5.0	50.00	0	86.2	43	136				
Chloromethane	32	5.0	50.00	0	64.3	27	146				
cis-1,3-Dichloropropene	45	5.0	50.00	0	91.0	47	130				
Dibromochloromethane	46	5.0	50.00	0	91.4	42	137				
Ethylbenzene	43	5.0	50.00	0	85.5	46	131				
Methylene chloride	22	10	50.00	0	44.1	20	125				
Tetrachloroethene	44	5.0	50.00	0	88.5	33	120				
Toluene	45	5.0	50.00	0	90.9	50	130				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8257**

Sample ID **LCS-8257** SampType: **LCS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14311**

Client ID: **LCSS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **261980**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	46	5.0	50.00	0	91.0	45	141				
trans-1,3-Dichloropropene	45	5.0	50.00	0	91.0	46	135				
Trichloroethene	46	5.0	50.00	0	91.8	46	129				
Trichlorofluoromethane	40	5.0	50.00	0	79.3	46	151				
Vinyl chloride	36	5.0	50.00	0	72.1	43	153				
Surr: 4-Bromofluorobenzene	50		50.00		101	48	136				
Surr: Dibromofluoromethane	51		50.00		103	44	154				
Surr: Toluene-d8	51		50.00		101	58	141				

Sample ID **MB-8257** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14311**

Client ID: **PBS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **261981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									U
1,1,1-Trichloroethane	ND	5.0									U
1,1,2,2-Tetrachloroethane	ND	5.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0									U
1,1,2-Trichloroethane	ND	5.0									U
1,1-Dichloroethane	ND	5.0									U
1,1-Dichloroethene	ND	5.0									U
1,1-Dichloropropene	ND	5.0									U
1,2,3-Trichlorobenzene	ND	5.0									U
1,2,3-Trichloropropane	ND	5.0									U
1,2,4,5-Tetramethylbenzene	ND	5.0									U
1,2,4-Trichlorobenzene	ND	5.0									U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8257**

Sample ID **MB-8257** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14311**

Client ID: **PBS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **261981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	5.0									U
1,2-Dibromo-3-chloropropane	ND	5.0									U
1,2-Dibromoethane	ND	5.0									U
1,2-Dichlorobenzene	ND	5.0									U
1,2-Dichloroethane	ND	5.0									U
1,2-Dichloropropane	ND	5.0									U
1,3,5-Trimethylbenzene	ND	5.0									U
1,3-Dichlorobenzene	ND	5.0									U
1,3-dichloropropane	ND	5.0									U
1,4-Dichlorobenzene	ND	5.0									U
1,4-Dioxane	ND	5.0									U
2,2-Dichloropropane	ND	5.0									U
2-Butanone	ND	10									U
2-Chloroethyl vinyl ether	ND	5.0									U
2-Chlorotoluene	ND	5.0									U
2-Hexanone	ND	10									U
2-Propanol	ND	5.0									U
4-Chlorotoluene	ND	5.0									U
4-Isopropyltoluene	ND	5.0									U
4-Methyl-2-pentanone	ND	10									U
Acetone	11	10									
Benzene	ND	5.0									U
Bromobenzene	ND	5.0									U
Bromochloromethane	ND	5.0									U
Bromodichloromethane	ND	5.0									U
Bromoform	ND	5.0									U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8257**

Sample ID **MB-8257** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14311**

Client ID: **PBS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **261981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane	ND	5.0									U
Carbon disulfide	ND	5.0									U
Carbon tetrachloride	ND	5.0									U
Chlorobenzene	ND	5.0									U
Chlorodifluoromethane	ND	5.0									U
Chloroethane	ND	5.0									U
Chloroform	ND	5.0									U
Chloromethane	ND	5.0									U
cis-1,2-Dichloroethene	ND	5.0									U
cis-1,3-Dichloropropene	ND	5.0									U
Cyclohexane	ND	5.0									U
Dibromochloromethane	ND	5.0									U
Dibromomethane	ND	5.0									U
Dichlorodifluoromethane	ND	5.0									U
Diisopropyl ether	ND	5.0									U
Ethanol	ND	20									U
Ethylbenzene	ND	5.0									U
Freon-114	ND	5.0									U
Hexachlorobutadiene	ND	5.0									U
Isopropylbenzene	ND	5.0									U
m,p-Xylene	ND	10									U
Methyl Acetate	ND	5.0									U
Methyl tert-butyl ether	ND	5.0									U
Methylene chloride	ND	10									U
n-Butylbenzene	ND	5.0									U
n-Propylbenzene	ND	5.0									U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8257**

Sample ID **MB-8257** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **2/25/2016** RunNo: **14311**

Client ID: **PBS** Batch ID: **8257** TestNo: **SW8260C** **SW5035A** Analysis Date: **2/25/2016** SeqNo: **261981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	5.0									U
o-Xylene	ND	5.0									U
p-Diethylbenzene	ND	5.0									U
p-Ethyltoluene	ND	5.0									U
sec-Butylbenzene	ND	5.0									U
Styrene	ND	5.0									U
t-Butyl alcohol	ND	5.0									U
tert-Butylbenzene	ND	5.0									U
Tetrachloroethene	ND	5.0									U
Toluene	ND	5.0									U
trans-1,2-Dichloroethene	ND	5.0									U
trans-1,3-Dichloropropene	ND	5.0									U
Trichloroethene	ND	5.0									U
Trichlorofluoromethane	ND	5.0									U
Vinyl acetate	ND	5.0									U
Vinyl chloride	ND	5.0									U
Xylenes, Total	ND	10									U
Acrolein	ND	25									U
Acrylonitrile	ND	5.0									U
Surr: 4-Bromofluorobenzene	52		50.00		104	48	136				
Surr: Dibromofluoromethane	55		50.00		110	44	154				
Surr: Toluene-d8	51		50.00		103	58	141				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8262**

Sample ID **LCS-8262** SampType: **LCS** TestCode: **8082_S** Units: **%Rec** Prep Date: **2/26/2016** RunNo: **14337**

Client ID: **LCSS** Batch ID: **8262** TestNo: **SW8082A** **SW3546** Analysis Date: **2/26/2016** SeqNo: **262218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: DCB	22		24.84		88.5	11	146				P
Surr: TCX	26		24.84		107	11	147				

Sample ID **MB-8262** SampType: **MBLK** TestCode: **8082_S** Units: **%Rec** Prep Date: **2/26/2016** RunNo: **14337**

Client ID: **PBS** Batch ID: **8262** TestNo: **SW8082A** **SW3546** Analysis Date: **2/26/2016** SeqNo: **262219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: DCB	20		25.00		78.6	11	146				
Surr: TCX	22		25.00		88.4	11	147				

Qualifiers:

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8262**

Sample ID **LCS-8262** SampType: **LCS** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **2/26/2016** RunNo: **14336**

Client ID: **LCSS** Batch ID: **8262** TestNo: **SW8082A** **SW3546** Analysis Date: **2/26/2016** SeqNo: **262222**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	210	20	248.4	0	83.2	23	140				
Aroclor 1221	ND	20		0	0	30	130				U
Aroclor 1232	ND	20		0	0	30	140				U
Aroclor 1242	ND	20		0	0	20	140				U
Aroclor 1248	ND	20		0	0	35	135				U
Aroclor 1254	ND	20		0	0	34	145				U
Aroclor 1260	160	20	248.4	0	63.9	21	135				P
Aroclor 1262	ND	20		0	0	30	130				U
Aroclor 1268	ND	20		0	0	35	135				U
Surr: DCB	15		24.84		60.7	11	146				P
Surr: TCX	22		24.84		87.5	11	147				

Sample ID **MB-8262** SampType: **MBLK** TestCode: **8082_S** Units: **µg/Kg** Prep Date: **2/26/2016** RunNo: **14336**

Client ID: **PBS** Batch ID: **8262** TestNo: **SW8082A** **SW3546** Analysis Date: **2/26/2016** SeqNo: **262223**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	20									U
Aroclor 1221	ND	20									U
Aroclor 1232	ND	20									U
Aroclor 1242	ND	20									U
Aroclor 1248	ND	20									U
Aroclor 1254	ND	20									U
Aroclor 1260	ND	20									U
Aroclor 1262	ND	20									U
Aroclor 1268	ND	20									U

Qualifiers:
S Spike Recovery outside accepted recovery limits
W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8262**

Sample ID	**MB-8262**	SampType:	**MBLK**	TestCode:	**8082_S**	Units:	**µg/Kg**	Prep Date:	**2/26/2016**	RunNo:	**14336**		
Client ID:	**PBS**	Batch ID:	**8262**	TestNo:	**SW8082A**	**SW3546**		Analysis Date:	**2/26/2016**	SeqNo:	**262223**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: DCB	15		25.00		58.3	11	146				
Surr: TCX	18		25.00		72.9	11	147				

Qualifiers:

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8274**

Sample ID **MB-8274** SampType: **MBLK** TestCode: **8015DROTOT** Units: **mg/Kg** Prep Date: **2/29/2016** RunNo: **14394**

Client ID: **PBS** Batch ID: **8274** TestNo: **SW8015D** **SW3546** Analysis Date: **3/1/2016** SeqNo: **263583**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total DRO TPH	ND	5.0									U
Surr: o-Terphenyl	0.94		1.000		94.2	11	145				

Sample ID **LCS-8274** SampType: **LCS** TestCode: **8015DROTOT** Units: **mg/Kg** Prep Date: **2/29/2016** RunNo: **14394**

Client ID: **LCSS** Batch ID: **8274** TestNo: **SW8015D** **SW3546** Analysis Date: **3/1/2016** SeqNo: **263584**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total DRO TPH	85	5.0	100.0	0	84.8	21	137				
Surr: o-Terphenyl	0.79		1.000		79.2	11	145				

Qualifiers:

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8278**

Sample ID **MB-8278** SampType: **MBLK** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **2/29/2016** RunNo: **14402**

Client ID: **PBS** Batch ID: **8278** TestNo: **SW8270D** **SW3546** Analysis Date: **3/1/2016** SeqNo: **263634**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,3´-Dichlorobenzidine	ND	250									U
Atrazine	ND	250									U
Benzaldehyde	ND	500									U
Benzidine	ND	500									U
Caprolactam	ND	250									U

Sample ID **LCS-8278** SampType: **LCS** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **2/29/2016** RunNo: **14402**

Client ID: **LCSS** Batch ID: **8278** TestNo: **SW8270D** **SW3546** Analysis Date: **3/1/2016** SeqNo: **263635**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,3´-Dichlorobenzidine	1300	250	1983	0	67.4	15	129				
Atrazine	1800	250	1983	0	92.9	44	138				
Benzaldehyde	1500	500	1983	0	75.2	22	142				
Benzidine	190	500	1983	0	9.70	1	120				J
Caprolactam	1800	250	1983	0	89.0	29	133				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8278**

Sample ID **MB-8278** SampType: **MBLK** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **2/29/2016** RunNo: **14401**

Client ID: **PBS** Batch ID: **8278** TestNo: **SW8270D** **SW3546** Analysis Date: **3/1/2016** SeqNo: **263618**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biphenyl	ND	250									U
1,2,4-Trichlorobenzene	ND	250									U
1,2-Dichlorobenzene	ND	250									U
1,3-Dichlorobenzene	ND	250									U
1,4-Dichlorobenzene	ND	250									U
2,4,5-Trichlorophenol	ND	250									U
2,4,6-Trichlorophenol	ND	250									U
2,4-Dichlorophenol	ND	250									U
2,4-Dimethylphenol	ND	250									U
2,4-Dinitrophenol	ND	500									U
2,4-Dinitrotoluene	ND	250									U
2,6-Dinitrotoluene	ND	250									U
2-Chloronaphthalene	ND	250									U
2-Chlorophenol	ND	250									U
2-Methylnaphthalene	ND	250									U
2-Methylphenol	ND	250									U
2-Nitroaniline	ND	250									U
2-Nitrophenol	ND	250									U
3+4-Methylphenol	ND	250									U
3-Nitroaniline	ND	250									U
4,6-Dinitro-2-methylphenol	ND	500									U
4-Bromophenyl phenyl ether	ND	250									U
4-Chloro-3-methylphenol	ND	250									U
4-Chloroaniline	ND	250									U
4-Chlorophenyl phenyl ether	ND	250									U
4-Nitroaniline	ND	250									U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8278**

Sample ID **MB-8278** SampType: **MBLK** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **2/29/2016** RunNo: **14401**

Client ID: **PBS** Batch ID: **8278** TestNo: **SW8270D** **SW3546** Analysis Date: **3/1/2016** SeqNo: **263618**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	ND	500									U
Acenaphthene	ND	250									U
Acenaphthylene	ND	250									U
Acetophenone	ND	250									U
Aniline	ND	250									U
Anthracene	ND	250									U
Azobenzene	ND	250									U
Benzo(a)anthracene	ND	250									U
Benzo(a)pyrene	ND	150									U
Benzo(b)fluoranthene	ND	250									U
Benzo(g,h,i)perylene	ND	250									U
Benzo(k)fluoranthene	ND	250									U
Benzoic acid	ND	500									U
Benzyl alcohol	ND	250									U
Bis(2-chloroethoxy)methane	ND	250									U
Bis(2-chloroethyl)ether	ND	250									U
Bis(2-chloroisopropyl)ether	ND	250									U
Bis(2-ethylhexyl)phthalate	ND	250									U
Butyl benzyl phthalate	ND	250									U
Carbazole	ND	250									U
Chrysene	ND	250									U
Di-n-butyl phthalate	ND	250									U
Di-n-octyl phthalate	ND	500									U
Dibenzo(a,h)anthracene	ND	150									U
Dibenzofuran	ND	250									U
Diethyl phthalate	ND	250									U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8278**

Sample ID **MB-8278** SampType: **MBLK** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **2/29/2016** RunNo: **14401**

Client ID: **PBS** Batch ID: **8278** TestNo: **SW8270D** **SW3546** Analysis Date: **3/1/2016** SeqNo: **263618**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dimethyl phthalate	ND	250									U
Fluoranthene	ND	250									U
Fluorene	ND	250									U
Hexachlorobenzene	ND	250									U
Hexachlorobutadiene	ND	250									U
Hexachlorocyclopentadiene	ND	250									U
Hexachloroethane	ND	250									U
Indeno(1,2,3-c,d)pyrene	ND	250									U
Isophorone	ND	250									U
N-Nitrosodi-n-propylamine	ND	150									U
N-Nitrosodimethylamine	ND	250									U
N-Nitrosodiphenylamine	ND	250									U
Naphthalene	ND	250									U
Nitrobenzene	ND	250									U
Parathion	ND	500									U
Pentachlorophenol	ND	500									U
Phenanthrene	ND	250									U
Phenol	ND	250									U
Pyrene	ND	250									U
Pyridine	ND	250									U
Surr: 2,4,6-Tribromophenol	1400		1991		71.4	13	137				
Surr: 2-Fluorobiphenyl	750		995.5		75.0	15	128				
Surr: 2-Fluorophenol	1600		1991		81.1	18	120				
Surr: 4-Terphenyl-d14	870		995.5		87.3	10	138				
Surr: Nitrobenzene-d5	700		995.5		70.2	10	128				
Surr: Phenol-d6	1500		1991		77.4	10	122				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8278**

Sample ID	**MB-8278**	SampType:	**MBLK**	TestCode:	**8270_S**	Units:	**µg/Kg**	Prep Date:	**2/29/2016**	RunNo:	**14401**		
Client ID:	**PBS**	Batch ID:	**8278**	TestNo:	**SW8270D**	**SW3546**		Analysis Date:	**3/1/2016**	SeqNo:	**263618**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	**LCS-8278**	SampType:	**LCS**	TestCode:	**8270_S**	Units:	**µg/Kg**	Prep Date:	**2/29/2016**	RunNo:	**14401**		
Client ID:	**LCSS**	Batch ID:	**8278**	TestNo:	**SW8270D**	**SW3546**		Analysis Date:	**3/1/2016**	SeqNo:	**263619**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biphenyl	1700	250	1983	0	87.2	37	135				
1,2,4-Trichlorobenzene	1600	250	1983	0	81.1	20	140				
1,2-Dichlorobenzene	1700	250	1983	0	84.1	26	134				
1,3-Dichlorobenzene	1600	250	1983	0	80.9	21	141				
1,4-Dichlorobenzene	1700	250	1983	0	84.5	24	143				
2,4,5-Trichlorophenol	1700	250	1983	0	85.8	33	133				
2,4,6-Trichlorophenol	1700	250	1983	0	85.4	28	146				
2,4-Dichlorophenol	1700	250	1983	0	86.4	27	142				
2,4-Dimethylphenol	1700	250	1983	0	87.7	15	138				
2,4-Dinitrophenol	1600	500	1983	0	79.1	1	144				
2,4-Dinitrotoluene	ND	250		0	0	23	153				U
2-Chloronaphthalene	1700	250	1983	0	85.9	28	147				
2-Chlorophenol	1800	250	1983	0	90.5	23	144				
2-Methylnaphthalene	1700	250	1983	0	85.2	24	134				
2-Methylphenol	1900	250	1983	0	93.5	23	143				
2-Nitroaniline	1800	250	1983	0	91.3	18	148				
2-Nitrophenol	1600	250	1983	0	83.2	11	147				
3+4-Methylphenol	3700	250	3966	0	93.0	16	137				
3-Nitroaniline	1400	250	1983	0	70.9	18	133				
4,6-Dinitro-2-methylphenol	1600	500	1983	0	81.4	10	147				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8278**

Sample ID **LCS-8278** SampType: **LCS** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **2/29/2016** RunNo: **14401**

Client ID: **LCSS** Batch ID: **8278** TestNo: **SW8270D** **SW3546** Analysis Date: **3/1/2016** SeqNo: **263619**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Bromophenyl phenyl ether	1800	250	1983	0	91.6	33	137				
4-Chloro-3-methylphenol	1800	250	1983	0	88.3	27	143				
4-Chloroaniline	1200	250	1983	0	60.1	10	112				
4-Chlorophenyl phenyl ether	1700	250	1983	0	86.0	34	135				
4-Nitroaniline	1300	250	1983	0	67.3	25	141				
4-Nitrophenol	1500	500	1983	0	73.3	9	150				
Acenaphthene	1700	250	1983	0	86.7	30	141				
Acenaphthylene	1800	250	1983	0	90.1	30	139				
Acetophenone	1800	250	1983	0	90.7	30	134				
Aniline	1300	250	1983	0	65.8	10	100				
Anthracene	1800	250	1983	0	89.3	32	141				
Azobenzene	ND	250		0	0	42	120				U
Benzo(a)anthracene	1800	250	1983	0	92.6	28	145				
Benzo(a)pyrene	1800	150	1983	0	88.8	25	144				
Benzo(b)fluoranthene	1900	250	1983	0	93.5	25	148				
Benzo(g,h,i)perylene	1600	250	1983	0	81.8	23	148				
Benzo(k)fluoranthene	1800	250	1983	0	90.4	27	144				
Benzoic acid	1500	500	1983	0	73.4	1	149				
Benzyl alcohol	1700	250	1983	0	85.5	21	141				
Bis(2-chloroethoxy)methane	1700	250	1983	0	86.3	24	147				
Bis(2-chloroethyl)ether	1800	250	1983	0	92.6	28	148				
Bis(2-chloroisopropyl)ether	1800	250	1983	0	89.2	22	147				
Carbazole	1700	250	1983	0	87.2	29	146				
Chrysene	1800	250	1983	0	92.7	29	142				
Di-n-butyl phthalate	ND	250	1983	0	0	30	149				SU
Di-n-octyl phthalate	ND	500	1983	0	0	24	150				SU

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8278**

Sample ID **LCS-8278** SampType: **LCS** TestCode: **8270_S** Units: **µg/Kg** Prep Date: **2/29/2016** RunNo: **14401**

Client ID: **LCSS** Batch ID: **8278** TestNo: **SW8270D** **SW3546** Analysis Date: **3/1/2016** SeqNo: **263619**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenzo(a,h)anthracene	1600	150	1983	0	82.5	29	145				
Dibenzofuran	1700	250	1983	0	85.3	30	145				
Diethyl phthalate	ND	250	1983	0	0	33	148				SU
Fluoranthene	1600	250	1983	0	82.6	27	144				
Fluorene	1700	250	1983	0	87.9	29	140				
Hexachlorobenzene	1700	250	1983	0	86.9	24	149				
Hexachlorobutadiene	1500	250	1983	0	77.2	25	138				
Hexachlorocyclopentadiene	1700	250	1983	0	83.3	13	147				
Hexachloroethane	1600	250	1983	0	80.7	22	140				
Indeno(1,2,3-c,d)pyrene	1900	250	1983	0	98.2	25	155				
N-Nitrosodi-n-propylamine	1800	150	1983	0	90.1	17	148				
N-Nitrosodimethylamine	1600	250	1983	0	78.9	13	147				
N-Nitrosodiphenylamine	1800	250	1983	0	90.3	23	139				
Naphthalene	1700	250	1983	0	83.8	23	146				
Parathion	1700	500	1983	0	86.4	22	154				
Pentachlorophenol	1600	500	1983	0	80.1	6	140				
Phenanthrene	1700	250	1983	0	86.9	30	147				
Phenol	1800	250	1983	0	92.9	17	151				
Pyrene	1900	250	1983	0	93.6	27	149				
Pyridine	1200	250	1983	0	62.3	18	108				
Surr: 2,4,6-Tribromophenol	1700		1983		86.9	13	137				
Surr: 2-Fluorobiphenyl	860		991.6		87.0	15	128				
Surr: 2-Fluorophenol	1800		1983		92.1	18	120				
Surr: 4-Terphenyl-d14	950		991.6		95.7	10	138				
Surr: Nitrobenzene-d5	820		991.6		82.7	10	128				
Surr: Phenol-d6	1800		1983		93.1	10	122				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8278**

Sample ID	**LCS-8278**	SampType:	**LCS**	TestCode:	**8270_S**	Units:	**µg/Kg**		Prep Date:	**2/29/2016**		RunNo:	**14401**		
Client ID:	**LCSS**	Batch ID:	**8278**	TestNo:	**SW8270D**	**SW3546**			Analysis Date:	**3/1/2016**		SeqNo:	**263619**		
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual

Qualifiers:

S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8280**

Sample ID **LCSW022916A** SampType: **LCS** TestCode: **ICPSCAN_S** Units: **mg/Kg** Prep Date: **2/29/2016** RunNo: **14366**

Client ID: **LCSS** Batch ID: **8280** TestNo: **SW6010C** **SW3050B** Analysis Date: **3/1/2016** SeqNo: **262604**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	37.4	0.400	40.00	0	93.6	80	120				
Antimony	36.0	0.500	40.00	0	90.0	80	120				
Arsenic	36.5	0.500	40.00	0	91.2	80	120				
Barium	36.2	0.400	40.00	0	90.5	80	120				
Beryllium	37.0	0.400	40.00	0	92.6	80	120				
Cadmium	36.9	0.400	40.00	0	92.2	80	120				
Calcium	46.3	0.500	40.00	0	116	80	120				
Chromium	35.8	0.400	40.00	0	89.4	80	120				
Cobalt	36.0	0.400	40.00	0	89.9	80	120				
Copper	35.7	0.400	40.00	0	89.2	80	120				
Iron	35.9	0.400	40.00	0	89.6	80	120				
Lead	36.5	0.400	40.00	0	91.2	80	120				
Magnesium	37.2	0.400	40.00	0	93.0	80	120				
Manganese	35.6	0.400	40.00	0	89.0	80	120				
Nickel	36.4	0.400	40.00	0	90.9	80	120				
Potassium	413	0.500	400.0	0	103	80	120				
Silver	42.1	0.400	40.00	0	105	80	120				
Sodium	36.8	0.500	40.00	0	91.9	80	120				
Thallium	37.4	0.500	40.00	0	93.6	80	120				
Vanadium	35.5	0.400	40.00	0	88.7	80	120				
Zinc	38.0	0.400	40.00	0	95.1	80	120				

Qualifiers:
S Spike Recovery outside accepted recovery limits
W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8280**

Sample ID **MBS022916A** SampType: **MBLK** TestCode: **ICPSCAN_S** Units: **mg/Kg** Prep Date: **2/29/2016** RunNo: **14366**

Client ID: **PBS** Batch ID: **8280** TestNo: **SW6010C** **SW3050B** Analysis Date: **3/1/2016** SeqNo: **262654**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.400									U
Antimony	ND	0.500									U
Arsenic	ND	0.500									U
Barium	ND	0.400									U
Beryllium	ND	0.400									U
Cadmium	ND	0.400									U
Calcium	ND	0.500									U
Chromium	ND	0.400									U
Cobalt	ND	0.400									U
Copper	ND	0.400									U
Iron	ND	0.400									U
Lead	ND	0.400									U
Magnesium	ND	0.400									U
Manganese	ND	0.400									U
Nickel	ND	0.400									U
Potassium	ND	0.500									U
Selenium	ND	0.500									U
Silver	ND	0.400									U
Sodium	ND	0.500									U
Thallium	ND	0.500									U
Vanadium	ND	0.400									U
Zinc	ND	0.400									U

Qualifiers:
S Spike Recovery outside accepted recovery limits
W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8281**

Sample ID **MBS022916A** SampType: **MBLK** TestCode: **HG_S** Units: **mg/Kg** Prep Date: **2/29/2016** RunNo: **14385**

Client ID: **PBS** Batch ID: **8281** TestNo: **SW7471B** **SW7471B** Analysis Date: **3/1/2016** SeqNo: **263305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.0150									U

Sample ID **LCSS022916A** SampType: **LCS** TestCode: **HG_S** Units: **mg/Kg** Prep Date: **2/29/2016** RunNo: **14385**

Client ID: **LCSS** Batch ID: **8281** TestNo: **SW7471B** **SW7471B** Analysis Date: **3/1/2016** SeqNo: **263306**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.190	0.0150	0.2000	0	94.8	80	120				

Qualifiers:

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8284**

Sample ID **MBT030116A** SampType: **MBLK** TestCode: **ICPSCAN_TC** Units: **mg/L** Prep Date: **3/1/2016** RunNo: **14368**

Client ID: **PBS** Batch ID: **8284** TestNo: **SW1311/6010 SW3010A** Analysis Date: **3/1/2016** SeqNo: **262687**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.0500									U
Arsenic	ND	0.0500									U
Barium	ND	0.500									U
Beryllium	ND	0.0500									U
Cadmium	ND	0.0500									U
Chromium	ND	0.0500									U
Copper	ND	0.0500									U
Lead	ND	0.0500									U
Nickel	ND	0.0500									U
Selenium	ND	0.0500									U
Silver	ND	0.0500									U
Thallium	ND	0.0500									U
Zinc	ND	0.0500									U
Vanadium	ND	0.0500									U

Sample ID **LCST030116A** SampType: **LCS** TestCode: **ICPSCAN_TC** Units: **mg/L** Prep Date: **3/1/2016** RunNo: **14368**

Client ID: **LCSS** Batch ID: **8284** TestNo: **SW1311/6010 SW3010A** Analysis Date: **3/1/2016** SeqNo: **262688**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.08	0.0500	2.000	0	104	80	120				
Arsenic	2.22	0.0500	2.000	0	111	80	120				
Barium	4.08	0.500	4.000	0	102	80	120				
Beryllium	2.19	0.0500	2.000	0	110	80	120				
Cadmium	2.17	0.0500	2.000	0	108	80	120				
Chromium	2.08	0.0500	2.000	0	104	80	120				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

Original

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **8284**

Sample ID **LCST030116A** SampType: **LCS** TestCode: **ICPSCAN_TC** Units: **mg/L** Prep Date: **3/1/2016** RunNo: **14368**

Client ID: **LCSS** Batch ID: **8284** TestNo: **SW1311/6010 SW3010A** Analysis Date: **3/1/2016** SeqNo: **262688**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	2.05	0.0500	2.000	0	103	80	120				
Lead	2.08	0.0500	2.000	0	104	80	120				
Nickel	2.11	0.0500	2.000	0	106	80	120				
Selenium	2.24	0.0500	2.000	0	112	80	120				
Silver	1.76	0.0500	2.000	0	88.1	80	120				
Thallium	2.08	0.0500	2.000	0	104	80	120				
Zinc	2.24	0.0500	2.000	0	112	80	120				
Vanadium	2.08	0.0500	2.000	0	104	80	120				

Qualifiers:

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **R14283**

Sample ID **PBS160225A** SampType: **MBLK** TestCode: **RCN_S** Units: **mg/Kg** Prep Date: RunNo: **14283**

Client ID: **PBS** Batch ID: **R14283** TestNo: **SW7.3.3.2** Analysis Date: **2/25/2016** SeqNo: **261701**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Reactive Cyanide	ND	0.100									U

Qualifiers:

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

Original

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QC SUMMARY REPORT

WO#: **1602167**

02-Mar-16

Client: PAL Environmental Services

Project: High School of Graphic Arts; 439 W. 49th St, N

BatchID: **R14296**

Sample ID **BL** SampType: **MBLK** TestCode: **RS_S** Units: **mg/Kg** Prep Date: RunNo: **14296**

Client ID: **PBS** Batch ID: **R14296** TestNo: **SW7.3.4.2** Analysis Date: **2/25/2016** SeqNo: **261873**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Reactive Sulfide	ND	2.00									U

Sample ID **LCS** SampType: **LCS** TestCode: **RS_S** Units: **mg/Kg** Prep Date: RunNo: **14296**

Client ID: **LCSS** Batch ID: **R14296** TestNo: **SW7.3.4.2** Analysis Date: **2/25/2016** SeqNo: **261874**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Reactive Sulfide	10.0	2.00	10.00	0	100	50	120				

Qualifiers:

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

Original