LEWIS CONSULTING GROUP
Environmental Consultants

September 19, 2014

Mr. James W. Thorpe
A&A Construction and Development
14-16 Chester Avenue
Newark, NJ 07104

RE: SUMMARY REPORT OF FINDINGS – SOIL INVESTIGATION
81-89 WEST ALPINE STREET
BLOCK 2678, LOTS 18 & 20-22
CITY OF NEWARK, ESSEX COUNTY, NEW JERSEY
LCG PROJECT NO. 14-1320

Dear Mr. Thorpe,

A&A Construction and Development (A&A) contracted Lewis Consulting Group, (LCG) to conduct soil investigation activities for the subject property located at 81-89 West Alpine Street, Newark, New Jersey. LCG based our approach on the information provided by A&A and current New Jersey Department of Environmental Protection (NJDEP) regulations. The aforementioned site consists of solely vacant land and is in preparation for redevelopment. Additionally, the site consists of four (4) contiguous lots situated on approximately 0.28-acres and identified on the City of Newark tax assessor's map as Block 2678, Lots 18 and 20-22. A Site Location map is provided in Appendix I.

BACKGROUND INFORMATION

According to the property owner A&A, the subject site was previously utilized by the City of Newark as a staging area for soils originating and subsequently transported from other City owned properties.

A&A submitted an application for funding to the New Jersey Housing Mortgage and Finance Agency (NJHMFA) to redevelop the parcel for residential purposes. In accordance with NJDEP requirements, the soil pile was required to be properly removed and disposed, prior to final site inspection.

Therefore, prior to redevelopment activities the soil pile, which consisted of approximately 3,500 tons, was required to undergo investigative activities for subsequent removal and proper disposal. The soil investigation consisted of the collection and analysis of soils for the purpose of

determining suitability for residential use and the characteristics of the staged soils, in accordance with the State of New Jersey's Technical Requirements for Site Remediation - N.J.A.C. 7:26E (Tech Regs) as well as the NJDEP'S Alternate Fill Guidance. A photographic log of pertinent photographs is provided in Appendix II.

SOIL INVESTIGATION & ANALYTICAL RESULTS

On February 19, 2014, LCG personnel collected four (4) soil samples (WC-1 through WC-4) for waste classification utilizing an onsite backhoe and hand auger. The samples were composited using a ten-point composite method and shipped under proper chain of custody to a New Jersey certified laboratory to be subsequently analyzed for full Target Analyte List/Target Compound List (TAL/TCL+30) and hexavalent chromium. All sampling activities were conducted in accordance with the NJDEP Field Sampling Procedures Manual dated August 2005 and the State of New Jersey's Technical Requirements for Site Remediation N.J.A.C. 7:26E (Tech Regs).

Soil analytical results from the February 19, 2014 sampling event reported concentrations of Semi-Volatile, Polycyclic Aromatic Hydrocarbons (PAH) constituents above the NJDEP's Residential Direct Contact Soil Remediation Standards (RDCSRS). The following table depicts the Semi-Volatile PAH targeted compounds detected above their respective RDCSRS:

Sample ID Date Lab Sample No.	**NJDEP RDCSRS (mg/kg)**	WC-1 2/19/2014 243599	WC-3 2/19/2014 243601	WC-4 2/19/2014 243602
Constituent (mg/kg)				
Benzo[a]anthracene	**0.6**	ND	ND	**0.64**
Benzo[a]pyrene	**0.2**	**0.55**	**0.35**	**0.71**
Benzo[b]fluoranthene	**0.6**	**0.74**	ND	**0.97**

All other targeted compounds were reported below their respective NJDEP RDCSRS and Non-Residential Direct Contact Soil Remediation Standards (NRDCSRS) for soil samples WC-1 through WC-4. The final laboratory analytical report is provided in Appendix IV.

SOIL REMOVAL & DISPOSAL SUMMARY

Based upon the reported analytical results from the February 19, 2014 soil investigation waste classification sampling event, the staged soils situated on the subject site reported Semi-Volatile PAH constituents above the NJDEP's RDCSRS. Therefore, LCG recommended transporting the soils off-site for proper disposal at a licensed facility.

Prior to disposal, the soils were required to be additionally analyzed for waste class parameters to be transported off-site to Clean Earth of Carteret, a licensed soil recycling facility. Additional waste class sampling parameters identified the soil pile situated on-site as *residential, non-hazardous* material.

In order to remove the impacted material located on-site, soil transport and disposal activities were conducted on June 25, 2014 through July 3, 2014 and August 11, 2014 through August 15, 2014. A total of 3,509.61 tons of soil was removed from the subject site and disposed of at Clean Earth of Carteret. Disposal Documentation is provided in Appendix III.

Based upon the reported analytical results from the February 19, 2014 soil investigation sampling event, the staged soils situated on the property located at 81-89 West Alpine Street, Newark, New Jersey reported Semi-Volatile PAH constituents above the NJDEP's RDCSRS. Therefore, the soils were analyzed for additional waste classification parameters and subsequently transported off-site for proper disposal at a licensed recycling facility.

Following removal, a final site inspection was conducted by NJDEP officials on August 19, 2014 to confirm the removal of staged soils and to confirm no other environmental areas of concern were observed on the subject site. Based upon these activities, the NJDEP recommended no further action for the subject site.

Please contact me with any questions at (732) 276-2420.

Sincerely,
LEWIS CONSULTING GROUP

Alan J. Krohn, LSRP No. 591428
Project Manager

C: William Lindner, NJDEP
Zachary D. Lewis, LCG

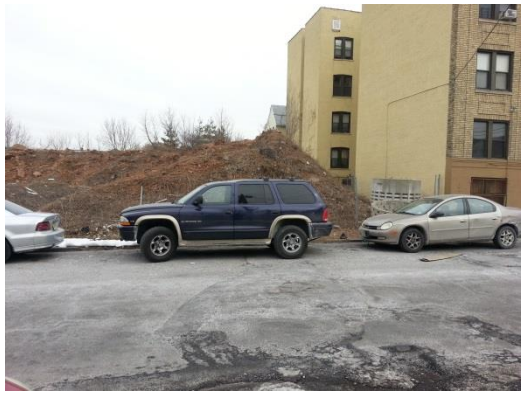
Attachments:
Appendix I – Site Location Map
Appendix II – Photographic Log
Appendix III – Disposal Documentation
Appendix IV – Laboratory Analytical Report

APPENDIX I

PHOTOGRAPHIC LOG

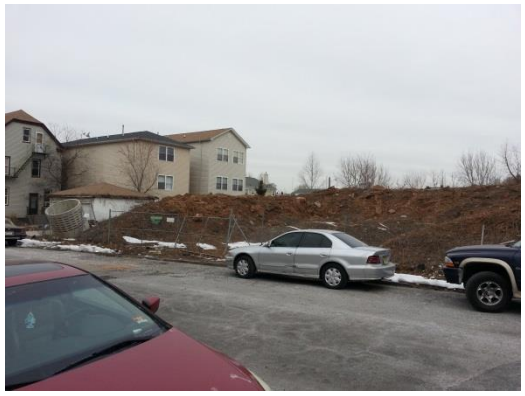
PHOTOGRAPH NUMBER: 01
PROJECT NAME: 85-89 W. ALPINE ST.
LOCATION: NEWARK, NJ
DATE: MARCH 7, 2014

Northern view of staged soil pile along West Alpine Street.



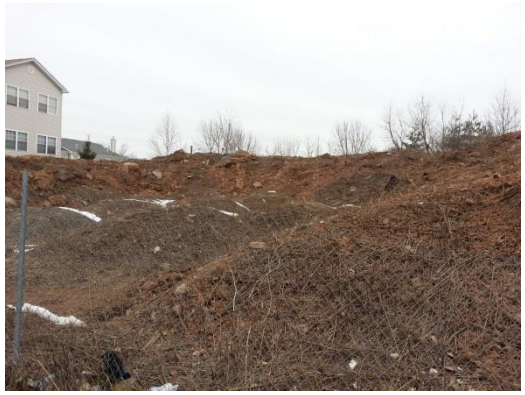
PHOTOGRAPH NUMBER: 02
PROJECT NAME: 85-89 W. ALPINE ST.
LOCATION: NEWARK, NJ
DATE: MARCH 7, 2014

Northwestern view of staged soil pile along West Alpine Street.



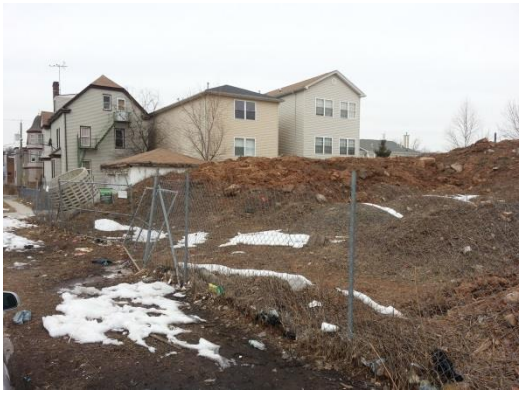
PHOTOGRAPH NUMBER: 03
PROJECT NAME: 85-89 W. ALPINE ST.
LOCATION: NEWARK, NJ
DATE: MARCH 7, 2014

Northern view of staged soil pile along West Alpine Street.



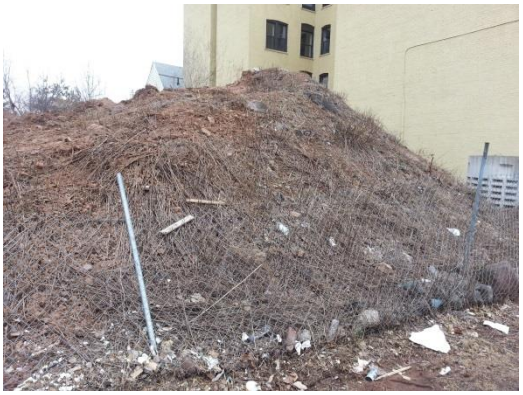
PHOTOGRAPH NUMBER: 04
PROJECT NAME: 85-89 W. ALPINE ST.
LOCATION: NEWARK, NJ
DATE: MARCH 7, 2014

Northwestern view of staged soil pile along West Alpine Street.



PHOTOGRAPH NUMBER: 05
PROJECT NAME: 85-89 W. ALPINE ST.
LOCATION: NEWARK, NJ
DATE: MARCH 7, 2014

View of staged soil pile situated on the eastern portion of the site along West Alpine Street.



APPENDIX II

W.A.T.E.R. WORKS LABORATORY, INC.

CHAIN OF CUSTODY FORM

360 GLENWOOD AVE. EAST ORANGE, NJ 07017
Phone: 973 678-3787 Fax: 973 678-6779
NJDEP Certification # 07673

CLIENT ADDRESS : Lewis Consulting Group
2519 Highway 35
Manasquan, NJ 08736

SITE ADDRESS : 85-89 West Alpine Street
Newark, NJ.

WWL LIM ID # 14628

CLIENT Field ID #	DATE COLL	TIME COLL	GRAB	COMP	MATRIX see note	# OF CONTAINERS TOTAL	UNPRES	BACT	HNO3	NAOH	H2SO4	HCL	Field Measurements	ANALYSIS REQUESTED	LAB USE WWL Sample #
WC-1	2-19-14			X	SO									FULL TAL/TCL	243599
WC-2	"			X	"									"	243600 *
WC-3	"			X	"									"	243601 *
WC-4	"			X	"									"	243602

REPORT FORMAT : STANDARD (NJ REDUCED) FULL EDD

SAMPLES REC'D IN GOOD COND: (YES) NO

COOLER TEMP @ LAB 4°

SAMPLED BY NAME/COMPANY : James J Rozgal WWL		DATE	TIME	Field Param Analyzed By Signature:	DATE	TIME
RELINQUISHED BY :				RECEIVED BY :		
RELINQUISHED BY :			10:00	RECEIVED BY :		
RELNQD AT LAB BY:	James J Rozgal	2/19/14	~~12:00~~	REC IN LAB BY: M. Gi	2-19-14	10:45

RUSH TURNAROUND TIMES MUST BE APPROVED BY LAB
PRIOR TO SAMPLE ARRIVAL. RUSH SURCHARGES WILL APPLY.

Result turnaround time : Standard or RUSH
If RUSH Enter NEED BY DATE : 3 / 5 / 14

LAB USE ONLY

Preservatives:	#of Cont.	Bott Type	pH at Lab	Analysis Req
HNO3				
HCL				
HCL Vials				
H2So4				
NaOH				
Sterile/Na2S2O3				

REMARKS:
Run Hex Cr on the two highest TCR samples.
* 2/27 - upgrade for Hex. Chromium

Matrix Codes: DW=Drinking Water: WW=Wastewater: So=Soil: GW= Groundwater: SL= Sludge:

DEFINITIONS

The following terms or abbreviations are used in this report:

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor
POS	Positive	Q	Qualifier
NEG	Negative	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit

ND	The concentration was not detected at or above RL / MDL.
J	Estimated value ≥ MDL but < RL. Applies to organics and general chemistry results (see below for metals)
DRY	Indicates the result was calculated and reported on a dry weight basis.
TIC	Tentatively Identified Compounds (Library Search Compounds); concentrations are estimated values only.
ppm (mg/l)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.
ppb (ug/L)	Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.
<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL.

Data Qualifiers (EPA CLP Convention)

Organics		*Metals*	
B	Analyte was detected in the method blank	B	Value is ≥ MDL and < RL
E	Concentration exceeds calibration range	E	Estimated value due to presence of interference
U	Compound not detected above MDL/RL	M	Duplicate precision for an element outside control limit
N	Presumptive evidence of compound in library search	N	Spike recovery for an element outside control limits
P1	Column precision criteria not met, report lower value	U	Element not detected above MDL/RL
P2	Column precision criteria not met, report higher value	Other	Defined in case narrative or data package
Other	Defined in case narrative or data package		

Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the QCL Southampton Division (1205 Industrial Boulevard, Southampton, PA 18966). Food, pharmaceutical, and dairy testing were performed the QCL facility in Horsham (702 Electronics Drive, Horsham, PA 19044).
- The test results meet all requirements of TNI or other regulatory agencies, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. QCL is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- QCL is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. QCL's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by QCL: Nicki Smith (Environmental & Food Chemistry), Amanda Lukaszewski (Pharmaceutical), Ryan Baker (Dairy), Renata Paskevicius (Food Micro), Sue Abbott (QCL Delaware).

OCL Accreditations

Southampton Division	EPA ID:	PA00018
	NELAP IDs:	PA 09-00131; NJ PA166; NY 11223
	State IDs:	CT PH-0768; DE PA-018; MD 206
	FDA Reg #:	2515238

Delaware Division	State IDs:	DE 00011; MD 138	Reading Division	State ID:	PA 06-03543
Wind Gap Division	State IDs:	PA 48-01334; NJ PA001	Vineland Division	State ID:	NJ 06005
East Rutherford Division	State ID:	NJ 02015			

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 1 of 1

Lab LIMS No: 1498458

Client/Acct. No. Waterworks Lab
Address NJ Dep#07623
City/State/Zip
Phone/Fax
Client Contact

Bill to/Report to: (if different)
Sampling Site Address: (if different)
P.O. No.
QC Contact

LAB USE ONLY:

- # ___ Ascorbic/HCl Vials # ___ HCl Vials
- # ___ $Na_2S_2O_3$
- # ___ Na OH/Zn acetate pH
- # ___ HNO_3 pH
- # ___ H_2SO_4 pH
- # ___ NaOH pH
- # 8 Unpreserved 4P|125mL 4splitcups
- # ___ Hcl pH
- # 3.8 Temp control QC ID# [illegible]

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpre	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
243599	2.19.14	800		✓	SO	1							1		Total cyanide, Sb	
243600	↓	815		✓	↓	1							1		↓	
243601	↓	825		✓	↓	1							1		↓	
243602	↓	845		✓	↓	1							1		↓	

SAMPLED BY: (Name/Company) client

Verbal/fax data due: 3 / 5 / 14
Hardcopy due: __/__/__

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☑ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig: Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

	Relinquished By	Date	Time	Received By	Date	Time
1 (Sampler)	[signature]	2-20-14	1000	[signature]	2/20/14	1000
2	[signature]	2/20/14	1000	03	2/20/14	1000
3	03	022014	2010	[signature]	022014	2010
4						
5						

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER

Custody Seal Number

COMMENTS: Rush

Delivered to office by customer

Hazardous: yes / no 13.7°C/ATC Aliced

For example to aid completion, see reverse side.

FINAL REPORT

QC Laboratories

1205 Industrial Highway, Southampton, PA 18966

EAST RUTHERFORD

Inter-Laboratory Transport Form: ER0220142

Coolers for Transport **from EAST RUTHERFORD**

To be completed by person sealing coolers					Complete Section Upon Delivery	
Cooler ID No.	**Custody Seal No.**	**Date**	**Time**	**Initials**	**Temp °C**	**Iced Y/N**
03	022014-1	02/20/14	1700	CPP	3.8	yes
23	MICRO	2/20/14	1700	CA	5.8	yes
37	022014-2	2-20-14	1700	AS	1.4	yes
15	022014-3	2/20/14	1630	DC	1.4	yes
55	022014-4	2/20/14	1700	DL	5.5	yes
32	02/2014-5	2/20/14	1700	FB	1.8	yes
alsorec'd	15-B	2/20/14		JB	1.6	yes

Please Note the Following:

Individual sample chains of custody must accompany this form.

Once a cooler is sealed, custody seals may not be broken until samples are received at the designated QCL laboratory.

Southampton

Laboratory use only

Custody Seals intact upon receipt? Y/N Initials: JB

List ID of any seal found broken upon receipt below:

A full legal signature is required. Record all times in military time (24-HR Clock; 4:00 PM=1600)

Relinquished by:	Date:	Time:		Received by:	Date:	Time:
Claire Maguire	2/20/14	1800		RA	2-20-14	1800
Relinquished by: RA	Date: 2-20-14	Time: 2010		Received by:	Date: 2/20/14	Time: 2010
Relinquished by:	Date:	Time:		Received by:	Date:	Time:
Relinquished by:	Date:	Time:		Received by:	Date:	Time:

W.A.T.E.R. WORKS LABORATORY INC.
NJ DEP LABORATORY ID # 07673

LABORATORY ANALYSIS REPORT-Metals

DATE: March 6, 2014

CLIENT: Lewis Consulting Group
PROJECT: 85-89 West Alpine Street

DATE COLLECTED: 2/19/2014
DATE RECEIVED: 3/19/2014

SAMPLE #: 243599
CLIENT ID: WC-1

Parameter	CAS#	Analysis Method	Analysis Date	Analysis Time	Qualifiers	Result	RL mg/kg
SILVER	7440-22-4	6010B	2/26/2014	16:51		<15.306	15.306
ALUMINUM	7429-90-5	6010B	2/26/2014	16:51		6776.705	5.386
ARSENIC	7440-38-2	6010B	2/26/2014	16:51		<4.771	4.771
BARIUM	7440-39-3	6010B	3/5/2014	16:11		34.601	3.281
BERYLLIUM	7440-41-7	6010B	2/26/2014	16:51		<2.864	2.864
CALCIUM	7789-78-8	6010B	2/26/2014	16:51		1853.283	244.791
CADMIUM	7440-43-9	6010B	2/26/2014	16:51		<2.928	2.928
COBALT	7440-48-4	6010B	2/26/2014	16:51		6.037	2.173
CHROMIUM	7440-47-3	6010B	2/26/2014	16:51		13.068	2.479
COPPER	7440-50-8	6010B	2/26/2014	16:51		11.686	2.778
IRON	7439-89-6	6010B	2/26/2014	16:51		11869.930	918.695
POTASSIUM	7440-09-7	6010B	2/26/2014	16:51		641.413	144.558
MAGNESIUM	7439-95-4	6010B	2/26/2014	16:51		2101.104	207.894
MANGANESE	7439-96-5	6010B	2/26/2014	16:51		205.578	2.417
SODIUM	7440-23-5	6010B	2/26/2014	16:51		323.222	126.537
NICKEL	7440-02-0	6010B	2/26/2014	16:51		8.730	3.081
LEAD	7439-92-1	6010B	2/26/2014	16:51		18.802	12.168
SELENIUM	7782-49-2	6010B	2/26/2014	16:51		<8.752	8.752
VANADIUM	7440-62-2	6010B	2/26/2014	16:51		18.892	2.521
ZINC	7440-66-6	6010B	2/26/2014	16:51		27.341	8.925
MERCURY	7439-97-6	7471A	2/26/2014	16:03		0.050	0.026
% SOLIDS		2540G	2/20/2014			91.04	

Qualifiers:
D = Result is reported from a dilution

All Results Reported as mg/kg
RL = Reporting Limit
Analysis Methods USEPA SW846 3rd Ed. &
Standard Methods: Online Edition

W.A.T.E.R. WORKS LABORATORY INC.
NJ DEP LABORATORY ID # 07673

LABORATORY ANALYSIS REPORT-Metals

DATE: March 6, 2014

CLIENT: Lewis Consulting Group
PROJECT: 85-89 West Alpine Street

DATE COLLECTED: 2/19/2014
DATE RECEIVED: 3/19/2014

SAMPLE #: 243600
CLIENT ID: WC-2

Parameter	CAS#	Analysis Method	Analysis Date	Analysis Time	Qualifiers	Result	RL mg/kg
SILVER	7440-22-4	6010B	2/26/2014	16:57		<12.138	12.138
ALUMINUM	7429-90-5	6010B	2/26/2014	16:57		10782.538	4.271
ARSENIC	7440-38-2	6010B	2/26/2014	16:57		<3.784	3.784
BARIUM	7440-39-3	6010B	3/5/2014	16:16		50.128	2.602
BERYLLIUM	7440-41-7	6010B	2/26/2014	16:57		<2.271	2.271
CALCIUM	7789-78-8	6010B	2/26/2014	16:57		2865.131	194.129
CADMIUM	7440-43-9	6010B	2/26/2014	16:57		<2.322	2.322
COBALT	7440-48-4	6010B	2/26/2014	16:57		6.703	1.724
CHROMIUM	7440-47-3	6010B	2/26/2014	16:57		14.101	1.966
COPPER	7440-50-8	6010B	2/26/2014	16:57		20.679	2.203
IRON	7439-89-6	6010B	2/26/2014	16:57		14842.414	728.563
POTASSIUM	7440-09-7	6010B	2/26/2014	16:57		1069.917	114.641
MAGNESIUM	7439-95-4	6010B	2/26/2014	16:57		2343.568	164.868
MANGANESE	7439-96-5	6010B	2/26/2014	16:57		390.461	1.917
SODIUM	7440-23-5	6010B	2/26/2014	16:57		140.189	100.349
NICKEL	7440-02-0	6010B	2/26/2014	16:57		10.547	2.444
LEAD	7439-92-1	6010B	2/26/2014	16:57		31.453	9.650
SELENIUM	7782-49-2	6010B	2/26/2014	16:57		<6.941	6.941
VANADIUM	7440-62-2	6010B	2/26/2014	16:57		23.909	2.000
ZINC	7440-66-6	6010B	2/26/2014	16:57		49.317	7.078
MERCURY	7439-97-6	7471A	2/26/2014	16:04		0.090	0.0222
% SOLIDS		2540G	2/20/2014			82.88	

Qualifiers:
D = Result is reported from a dilution

All Results Reported as mg/kg
RL = Reporting Limit
Analysis Methods USEPA SW846 3rd Ed. &
Standard Methods: Online Edition

W.A.T.E.R. WORKS LABORATORY INC.
NJ DEP LABORATORY ID # 07673

LABORATORY ANALYSIS REPORT-Metals

DATE: March 6, 2014

CLIENT: Lewis Consulting Group
PROJECT: 85-89 West Alpine Street

DATE COLLECTED: 2/19/2014
DATE RECEIVED: 3/19/2014

SAMPLE #: 243601
CLIENT ID: WC-3

Parameter	CAS#	Analysis Method	Analysis Date	Analysis Time	Qualifiers	Result	RL mg/kg
SILVER	7440-22-4	6010B	2/26/2014	17:04		<14.605	14.605
ALUMINUM	7429-90-5	6010B	2/26/2014	17:04		7880.712	5.140
ARSENIC	7440-38-2	6010B	2/26/2014	17:04		<4.553	4.553
BARIUM	7440-39-3	6010B	3/5/2014	16:24		38.737	3.131
BERYLLIUM	7440-41-7	6010B	2/26/2014	17:04		<2.733	2.733
CALCIUM	7789-78-8	6010B	2/26/2014	17:04		1985.740	233.586
CADMIUM	7440-43-9	6010B	2/26/2014	17:04		<2.794	2.794
COBALT	7440-48-4	6010B	2/26/2014	17:04		5.331	2.074
CHROMIUM	7440-47-3	6010B	2/26/2014	17:04		20.542	2.366
COPPER	7440-50-8	6010B	2/26/2014	17:04		21.017	2.651
IRON	7439-89-6	6010B	2/26/2014	17:04		13742.777	876.643
POTASSIUM	7440-09-7	6010B	2/26/2014	17:04		908.142	137.941
MAGNESIUM	7439-95-4	6010B	2/26/2014	17:04		2385.370	198.378
MANGANESE	7439-96-5	6010B	2/26/2014	17:04		291.803	2.307
SODIUM	7440-23-5	6010B	2/26/2014	17:04		189.232	120.745
NICKEL	7440-02-0	6010B	2/26/2014	17:04		9.968	2.940
LEAD	7439-92-1	6010B	2/26/2014	17:04		31.980	11.611
SELENIUM	7782-49-2	6010B	2/26/2014	17:04		<8.352	8.352
VANADIUM	7440-62-2	6010B	2/26/2014	17:04		22.590	2.406
ZINC	7440-66-6	6010B	2/26/2014	17:04		55.568	8.517
MERCURY	7439-97-6	7471A	2/26/2014	16:06		0.139	0.0258
% SOLIDS		2540G	2/20/2014			87.06	

Qualifiers:
D = Result is reported from a dilution

All Results Reported as mg/kg
RL = Reporting Limit
Analysis Methods USEPA SW846 3rd Ed. &
Standard Methods: Online Edition

W.A.T.E.R. WORKS LABORATORY INC.
NJ DEP LABORATORY ID # 07673

LABORATORY ANALYSIS REPORT-Metals

DATE: March 6, 2014

CLIENT: Lewis Consulting Group
PROJECT: 85-89 West Alpine Street

DATE COLLECTED: 2/19/2014
DATE RECEIVED: 3/19/2014

SAMPLE #: 243602
CLIENT ID: WC-4

Parameter	CAS#	Analysis Method	Analysis Date	Analysis Time	Qualifiers	Result	RL mg/kg
SILVER	7440-22-4	6010B	2/26/2014	17:12		<14.267	14.267
ALUMINUM	7429-90-5	6010B	2/26/2014	17:12		8641.612	5.020
ARSENIC	7440-38-2	6010B	2/26/2014	17:12		<4.447	4.447
BARIUM	7440-39-3	6010B	3/5/2014	16:32		54.641	3.058
BERYLLIUM	7440-41-7	6010B	2/26/2014	17:12		<2.67	2.670
CALCIUM	7789-78-8	6010B	2/26/2014	17:12		2348.789	228.170
CADMIUM	7440-43-9	6010B	2/26/2014	17:12		<2.729	2.729
COBALT	7440-48-4	6010B	2/26/2014	17:12		4.939	2.026
CHROMIUM	7440-47-3	6010B	2/26/2014	17:12		12.426	2.311
COPPER	7440-50-8	6010B	2/26/2014	17:12		16.946	2.589
IRON	7439-89-6	6010B	2/26/2014	17:12		13456.202	856.318
POTASSIUM	7440-09-7	6010B	2/26/2014	17:12		908.069	134.743
MAGNESIUM	7439-95-4	6010B	2/26/2014	17:12		2281.687	193.778
MANGANESE	7439-96-5	6010B	2/26/2014	17:12		245.407	2.253
SODIUM	7440-23-5	6010B	2/26/2014	17:12		213.904	117.946
NICKEL	7440-02-0	6010B	2/26/2014	17:12		10.200	2.872
LEAD	7439-92-1	6010B	2/26/2014	17:12		52.675	11.342
SELENIUM	7782-49-2	6010B	2/26/2014	17:12		<8.158	8.158
VANADIUM	7440-62-2	6010B	2/26/2014	17:12		19.612	2.350
ZINC	7440-66-6	6010B	2/26/2014	17:12		41.672	8.319
MERCURY	7439-97-6	7471A	2/26/2014	16:08		<0.0216	0.0216
% SOLIDS		2540G	2/20/2014			88.68	

Qualifiers:
D = Result is reported from a dilution

All Results Reported as mg/kg
RL = Reporting Limit
Analysis Methods USEPA SW846 3rd Ed. &
Standard Methods: Online Edition

QC Laboratories

Analytical Report

Printed 02/27/14 17:31

PETER BISCHOF
WATER WORKS LABORATORY, INC.
360 GLENWOOD AVENUE
EAST ORANGE, NJ 07017

Regarding:
PETER BISCHOF
WATER WORKS LABORATORY, INC.
360 GLENWOOD AVENUE
EAST ORANGE, NJ 07017

Account No:G00167, WATER WORKS LABORATORY, INC. **P.O. No:** **Inv. No:** 1587597 PAPERLESS
Project No: G00167, WATER WORKS LABORATORY, INC. **PWSID No:**

Sample ID L4948458-1
Sample Description 243599 SOIL COMPOSITE
Samp. Date/Time/Temp 02/19/14 08:00am NA C
Sampled by Customer
Received Date/Time/Temp 02/20/14 08:10pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RL	Test Date, Time, Analyst
GENERAL CHEMISTRY				
Cyanide, total	EPA 9010/9014	ND mg/kg DRY	0.426 mg/kg*	02/24/14 12:30PM JG
Total Solids Percent	SM 2540G	92.21 %	0.01000 %	02/24/14 10:20PM FXT
METALS				
Antimony	EPA 6010C	ND mg/kg DRY	1.01 mg/kg*	02/27/14 12:12PM PG

Pursuant to NJAC 7:26, Appendix A 1(E), unless otherwise noted, all sample holding times and preservation requirements were met.

QC Laboratories

Analytical Report

Printed 02/27/14 17:31

Account No:G00167, WATER WORKS LABORATORY, INC. P.O. No: Inv. No: 1587597 PAPERLESS
Project No: G00167, WATER WORKS LABORATORY, INC. PWSID No:

Sample ID	L4948458-2
Sample Description	243600 SOIL COMPOSITE
Samp. Date/Time/Temp	02/19/14 08:15am NA C
Sampled by	Customer
Received Date/Time/Temp	02/20/14 08:10pm 3.8 C Iced (Y/N): Y

Parameter	Method	Result	RL	Test Date, Time, Analyst
GENERAL CHEMISTRY				
Cyanide, total	EPA 9010/9014	ND mg/kg DRY	0.449 mg/kg*	02/24/14 12:30PM JG
Total Solids Percent	SM 2540G	87.56 %	0.01000 %	02/24/14 10:20PM FXT
METALS				
Antimony	EPA 6010C	ND mg/kg DRY	1.07 mg/kg*	02/27/14 12:15PM PG

Pursuant to NJAC 7:26, Appendix A 1(E), unless otherwise noted, all sample holding times and preservation requirements were met.

QC Laboratories

Analytical Report

Printed 02/27/14 17:31

Account No:G00167, WATER WORKS LABORATORY, INC. P.O. No: Inv. No: 1587597 PAPERLESS
Project No: G00167, WATER WORKS LABORATORY, INC. PWSID No:

Sample ID	L4948458-3
Sample Description	243601 SOIL COMPOSITE
Samp. Date/Time/Temp	02/19/14 08:25am NA C
Sampled by	Customer
Received Date/Time/Temp	02/20/14 08:10pm 3.8 C Iced (Y/N): Y

Parameter	Method	Result	RL	Test Date, Time, Analyst
GENERAL CHEMISTRY				
Cyanide, total	EPA 9010/9014	ND mg/kg DRY	0.447 mg/kg*	02/24/14 12:30PM JG
Total Solids Percent	SM 2540G	87.87 %	0.01000 %	02/24/14 10:20PM FXT
METALS				
Antimony	EPA 6010C	ND mg/kg DRY	1.06 mg/kg*	02/27/14 12:18PM PG

Pursuant to NJAC 7:26, Appendix A 1(E), unless otherwise noted, all sample holding times and preservation requirements were met.

QC Laboratories

Analytical Report

Printed 02/27/14 17:31

Account No:G00167, WATER WORKS LABORATORY, INC. P.O. No: Inv. No: 1587597 PAPERLESS
Project No: G00167, WATER WORKS LABORATORY, INC. PWSID No:

Sample ID	L4948458-4
Sample Description	243602 SOIL COMPOSITE
Samp. Date/Time/Temp	02/19/14 08:45am NA C
Sampled by	Customer
Received Date/Time/Temp	02/20/14 08:10pm 3.8 C Iced (Y/N): Y

Parameter	Method	Result	RL	Test Date, Time, Analyst
GENERAL CHEMISTRY				
Cyanide, total	EPA 9010/9014	ND mg/kg DRY	0.437 mg/kg*	02/24/14 12:30PM JG
Total Solids Percent	SM 2540G	89.96 %	0.01000 %	02/24/14 10:20PM FXT
METALS				
Antimony	EPA 6010C	ND mg/kg DRY	1.04 mg/kg*	02/27/14 12:21PM PG

Pursuant to NJAC 7:26, Appendix A 1(E), unless otherwise noted, all sample holding times and preservation requirements were met.

W.W.L.
W.A.T.E.R. WORKS LABORATORY INC.
NJDEP# 07673
360 GLENWOOD AVENUE
EAST ORANGE, NJ 07017

PCB Analysis Report (EPA Method 8082A)

Sample #	*: 243599*	*Analysis Date*	*: 02/26/14 at 05:05 PM*
Client	*: LEWIS CONSULTING*	*Instrument*	*: GCB*
Client ID	*: WC-1*	*Column*	*: RTX-5, 30m, 0.53mm I.D., .0.5um film*
Project	*: 85-89 WEST ALPINE ST.*	*Matrix*	*: SOIL*
Date Sampled	*: 02/19/14*	*Dilution Factor*	*: 1*
Date Received	*: 02/19/14*	*Sample Volume*	*: 15.00 g 91.04% solid*
Date Extracted	*: 02/21/14*	*Analyst*	*: AAA*
Data File	*: gcb_022614_014.rst*		

243599 Report

Compound	CAS#	MDL (ppb)	RL (ppb)	Result (ppb)
Aroclor 1016	12674-11-2	36.25	183.07	ND
Aroclor 1221	11104-28-2	83.48	183.07	ND
Aroclor 1232	11141-16-5	28.56	183.07	ND
Aroclor 1242	53469-21-9	41.74	183.07	ND
Aroclor 1248	12672-29-6	25.26	183.07	ND
Aroclor 1254	11097-69-1	26.36	183.07	ND
Aroclor 1260	11096-82-5	56.02	183.07	ND

Analyzed by EPA method 8082A
All results reported as ug/kg

All detected PCB Aroclor compunds require 2nd confirmation analysis. Per EPA method 8082A the LESSER of these results shall be considered the final result.

MDL=Method Detection Limit
RL=Reporting Limit
ND=Not Detected above MDL
J=Estimated result, detected above MDL but below RL

W.W.L.
W.A.T.E.R. WORKS LABORATORY INC.
NJDEP# 07673
360 GLENWOOD AVENUE
EAST ORANGE, NJ 07017

Pesticide Analysis Report (EPA Method 8081B)

Sample #	*: 243599*
Client	*: LEWIS CONSULTING*
Client ID	*: WC-1*
Project	*: 85-89 WEST ALPINE ST.*
Date Sampled	*: 02/19/14*
Date Received	*: 02/19/14*
Date Extracted	*: 02/21/14*
Matrix	*: SOIL*
Sample Volume	*: 15.00g 91.04% solid*
Analyst	*: AAA*

Column	:RTX-35, 30m, 0.53mm I.D., 0.5um film
Instrument	: GCD
Date Analyzed	: 03/03/14 06:17 PM
Dilution Factor	: 1
Rtx-35 Sequence	: C:\Totalchrom\Sequences\030314-GCD-PEST.seq
Rtx-35 Method	: c:\totalchrom\methods\030314-gcd-pest-rtx35.mth
Rtx-35 data file	: c:\totalchrom\data\gcd_030314_012.rst
Column	:RTX-5, 30m, 0.53mm I.D., 0.5um film
Instrument	:GCB
Date Analyzed	:03/03/14 10:33 PM
Dilution Factor	:1
Rtx-5 Sequence	:C:\Totalchrom\Sequences\030314-GCB-PEST.seq
Rtx-5 Method	:c:\totalchrom\methods\030314-gcb-pest-rtx5.mth
Rtx-5 data file	:c:\totalchrom\data\gcb_030314_012.rst

Column	Compound	CAS #	MDL	RL	Result	
RTX-5	a-BHC	319-84-6	0.32	1.83	ND	
RTX-35	a-BHC	319-84-6	0.32	1.83	1.05	J
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	b-BHC	319-85-7	0.34	1.83	ND	
RTX-35	b-BHC	319-85-7	0.43	1.83	1.10	J
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	y-BHC	58-89-9	0.76	1.83	ND	
RTX-35	y-BHC	58-89-9	0.36	1.83	17.93	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	d-BHC	319-86-8	0.32	1.83	ND	
RTX-35	d-BHC	319-86-8	0.34	1.83	1.06	J
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Heptachlor	76-44-8	0.34	1.83	1.59	J
RTX-35	Heptachlor	76-44-8	0.32	1.83	0.64	J
Confirmed					**0.64**	J *
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Aldrin	309-00-2	0.33	1.83	22.43	
RTX-35	Aldrin	309-00-2	0.33	1.83	5.93	
Confirmed					**5.93**	*
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Heptachlor Epoxide	1024-57-3	0.34	1.83	12.55	
RTX-35	Heptachlor Epoxide	1024-57-3	0.32	1.83	23.04	
Confirmed					**12.55**	*
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	y-Chlordane	5103-74-2	0.34	1.83	11.11	
RTX-35	y-Chlordane	5103-74-2	0.26	1.83	0.71	J
Confirmed					**0.71**	J *

Analyzed by EPA method 8081B
All results reported as ug/kg

Note: All detected pesticide compounds require 2nd confirmation analysis. W.W.L. reports the LESSER of these results as the "Confirmed" result. Pesticide compounds that do not confirm on 2nd analysis are reported "ND" as the "Confirmed" result.

MDL=Method Detection Limit
RL=Reporting Limit
ND=Not Detected above MDL
J=Estimated, detected above MDL but below RL
**=Estimated, dual column results %diff. > 40%*

Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endosulfan I	959-98-8	0.36	1.83	0.59	J
RTX-35	Endosulfan I	959-98-8	0.29	1.83	ND	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	a-Chlordane	5103-71-9	0.35	1.83	6.63	
RTX-35	a-Chlordane	5103-71-9	0.30	1.83	46.59	
Confirmed					**6.63**	*
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Dieldrin	60-57-1	0.67	3.66	9.60	
RTX-35	Dieldrin	60-57-1	0.57	3.66	4.09	
Confirmed					**4.09**	*
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	4,4'-DDE	72-55-9	0.67	3.66	ND	
RTX-35	4,4'-DDE	72-55-9	0.60	3.66	16.64	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endrin	72-20-8	0.72	3.66	6.97	
RTX-35	Endrin	72-20-8	0.59	3.66	16.08	
Confirmed					**6.97**	*
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endosulfan II	33213-65-9	0.71	3.66	4.08	
RTX-35	Endosulfan II	33213-65-9	0.67	3.66	4.06	
Confirmed					**4.06**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	4,4'-DDD	72-54-8	0.69	3.66	1.12	J
RTX-35	4,4'-DDD	72-54-8	0.67	3.66	4.89	
Confirmed					**1.12**	J *
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endrin Aldehyde	7421-93-4	0.79	3.66	ND	
RTX-35	Endrin Aldehyde	7421-93-4	1.15	3.66	5.89	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endosulfan Sulfate	1031-07-8	0.70	3.66	ND	
RTX-35	Endosulfan Sulfate	1031-07-8	0.58	3.66	17.53	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	4,4'-DDT	50-29-3	0.71	3.66	10.83	
RTX-35	4,4'-DDT	50-29-3	0.51	3.66	12.63	
Confirmed					**10.83**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endrin Ketone	53494-70-5	0.75	3.66	11.14	
RTX-35	Endrin Ketone	53494-70-5	0.64	3.66	28.03	
Confirmed					**11.14**	*
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Methoxychlor	72-43-5	3.70	18.31	95.03	
RTX-35	Methoxychlor	72-43-5	2.54	18.31	ND	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Toxaphene	8001-35-2	2.68	87.87	ND	
RTX-35	Toxaphene	8001-35-2	2.68	87.87	ND	
Confirmed					**ND**	

Analyzed by EPA method 8081B
All results reported as ug/kg

Note: All detected pesticide compounds require 2nd confirmation analysis. W.W.L. reports the LESSER of these results as the "Confirmed" result. Pesticide compounds that do not confirm on 2nd analysis are reported "ND" as the "Confirmed" result.

MDL=Method Detection Limit
RL=Reporting Limit
ND=Not Detected above MDL
J=Estimated, detected above MDL but below RL
**=Estimated, dual column results %diff. > 40%*

W.W.L.
W.A.T.E.R. WORKS LABORATORY INC.
NJDEP# 07673
360 GLENWOOD AVENUE
EAST ORANGE, NJ 07017

PCB Analysis Report (EPA Method 8082A)

Sample #	*: 243600*	*Analysis Date*	*: 02/26/14 at 05:47 PM*
Client	*: LEWIS CONSULTING*	*Instrument*	*: GCB*
Client ID	*: WC-2*	*Column*	*: RTX-5, 30m, 0.53mm I.D., .0.5um film*
Project	*: 85-89 WEST ALPINE ST.*	*Matrix*	*: SOIL*
Date Sampled	*: 02/19/14*	*Dilution Factor*	*: 1*
Date Received	*: 02/19/14*	*Sample Volume*	*: 15.10 g 82.88% solid*
Date Extracted	*: 02/21/14*	*Analyst*	*: AAA*
Data File	*: gcb_022614_015.rst*		

243600 Report

Compound	CAS#	MDL (ppb)	RL (ppb)	Result (ppb)
Aroclor 1016	12674-11-2	39.55	199.76	ND
Aroclor 1221	11104-28-2	91.09	199.76	ND
Aroclor 1232	11141-16-5	31.16	199.76	ND
Aroclor 1242	53469-21-9	45.55	199.76	ND
Aroclor 1248	12672-29-6	27.57	199.76	ND
Aroclor 1254	11097-69-1	28.77	199.76	ND
Aroclor 1260	11096-82-5	61.13	199.76	ND

Analyzed by EPA method 8082A
All results reported as ug/kg

All detected PCB Aroclor compunds require 2nd confirmation analysis. Per EPA method 8082A the LESSER of these results shall be considered the final result.

MDL=Method Detection Limit
RL=Reporting Limit
ND=Not Detected above MDL
J=Estimated result, detected above MDL but below RL

W.W.L.
W.A.T.E.R. WORKS LABORATORY INC.
NJDEP# 07673
360 GLENWOOD AVENUE
EAST ORANGE, NJ 07017

Pesticide Analysis Report (EPA Method 8081B)

Sample # : *243600*
Client : *LEWIS CONSULTING*
Client ID : *WC-2*
Project : *85-89 WEST ALPINE ST.*
Date Sampled : *02/19/14*
Date Received : *02/19/14*
Date Extracted : *02/21/14*
Matrix : *SOIL*
Sample Volume : *15.10g 82.88% solid*
Analyst : *AAA*

Column :RTX-35, 30m, 0.53mm I.D., 0.5um film
Instrument : GCD
Date Analyzed : 03/03/14 06:55 PM
Dilution Factor : 1
Rtx-35 Sequence : C:\Totalchrom\Sequences\030314-GCD-PEST.seq
Rtx-35 Method : c:\totalchrom\methods\030314-gcd-pest-rtx35.mth
Rtx-35 data file : c:\totalchrom\data\gcd_030314_013.rst

Column :RTX-5, 30m, 0.53mm I.D., 0.5um film
Instrument :GCB
Date Analyzed :03/03/14 11:15 PM
Dilution Factor :1
Rtx-5 Sequence :C:\Totalchrom\Sequences\030314-GCB-PEST.seq
Rtx-5 Method :c:\totalchrom\methods\030314-gcb-pest-rtx5.mth
Rtx-5 data file :c:\totalchrom\data\gcb_030314_013.rst

Column	Compound	CAS #	MDL	RL	Result	
RTX-5	a-BHC	319-84-6	0.35	2.00	ND	
RTX-35	a-BHC	319-84-6	0.35	2.00	0.68	J
Confirmed					**ND**	

Column	Compound	CAS #	MDL	RL	Result	
RTX-5	b-BHC	319-85-7	0.37	2.00	ND	
RTX-35	b-BHC	319-85-7	0.47	2.00	ND	
Confirmed					**ND**	

Column	Compound	CAS #	MDL	RL	Result	
RTX-5	y-BHC	58-89-9	0.83	2.00	ND	
RTX-35	y-BHC	58-89-9	0.40	2.00	3.49	
Confirmed					**ND**	

Column	Compound	CAS #	MDL	RL	Result	
RTX-5	d-BHC	319-86-8	0.35	2.00	ND	
RTX-35	d-BHC	319-86-8	0.37	2.00	1.37	J
Confirmed					**ND**	

Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Heptachlor	76-44-8	0.37	2.00	ND	
RTX-35	Heptachlor	76-44-8	0.35	2.00	ND	
Confirmed					**ND**	

Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Aldrin	309-00-2	0.36	2.00	111.34	
RTX-35	Aldrin	309-00-2	0.36	2.00	2.42	
Confirmed					**2.42**	*

Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Heptachlor Epoxide	1024-57-3	0.37	2.00	1.07	J
RTX-35	Heptachlor Epoxide	1024-57-3	0.35	2.00	4.67	
Confirmed					**1.07**	J *

Column	Compound	CAS #	MDL	RL	Result	
RTX-5	y-Chlordane	5103-74-2	0.37	2.00	9.29	
RTX-35	y-Chlordane	5103-74-2	0.29	2.00	7.36	
Confirmed					**7.36**	

Analyzed by EPA method 8081B
All results reported as ug/kg

Note: All detected pesticide compounds require 2nd confirmation analysis. W.W.L. reports the LESSER of these results as the "Confirmed" result. Pesticide compounds that do not confirm on 2nd analysis are reported "ND" as the "Confirmed" result.

MDL=Method Detection Limit
RL=Reporting Limit
ND=Not Detected above MDL
J=Estimated, detected above MDL but below RL
**=Estimated, dual column results %diff. > 40%*

Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endosulfan I	959-98-8	0.40	2.00	ND	
RTX-35	Endosulfan I	959-98-8	0.31	2.00	ND	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	a-Chlordane	5103-71-9	0.38	2.00	8.76	
RTX-35	a-Chlordane	5103-71-9	0.32	2.00	18.31	
Confirmed					**8.76**	*
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Dieldrin	60-57-1	0.73	4.00	15.26	
RTX-35	Dieldrin	60-57-1	0.62	4.00	10.41	
Confirmed					**10.41**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	4,4'-DDE	72-55-9	0.73	4.00	ND	
RTX-35	4,4'-DDE	72-55-9	0.66	4.00	9.05	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endrin	72-20-8	0.79	4.00	2.82	J
RTX-35	Endrin	72-20-8	0.65	4.00	ND	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endosulfan II	33213-65-9	0.78	4.00	ND	
RTX-35	Endosulfan II	33213-65-9	0.73	4.00	1.83	J
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	4,4'-DDD	72-54-8	0.76	4.00	3.13	J
RTX-35	4,4'-DDD	72-54-8	0.73	4.00	0.98	J
Confirmed					**0.98**	J *
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endrin Aldehyde	7421-93-4	0.86	4.00	1.19	J
RTX-35	Endrin Aldehyde	7421-93-4	1.26	4.00	4.46	
Confirmed					**1.19**	*
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endosulfan Sulfate	1031-07-8	0.77	4.00	22.34	
RTX-35	Endosulfan Sulfate	1031-07-8	0.64	4.00	1.99	J
Confirmed					**1.99**	J *
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	4,4'-DDT	50-29-3	0.78	4.00	10.49	
RTX-35	4,4'-DDT	50-29-3	0.55	4.00	6.86	
Confirmed					**6.86**	*
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endrin Ketone	53494-70-5	0.82	4.00	ND	
RTX-35	Endrin Ketone	53494-70-5	0.70	4.00	6.98	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Methoxychlor	72-43-5	4.04	19.98	34.94	
RTX-35	Methoxychlor	72-43-5	2.77	19.98	ND	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Toxaphene	8001-35-2	2.94	96.53	ND	
RTX-35	Toxaphene	8001-35-2	2.94	96.53	ND	
Confirmed					**ND**	

Analyzed by EPA method 8081B
All results reported as ug/kg

Note: All detected pesticide compounds require 2nd confirmation analysis. W.W.L. reports the LESSER of these results as the "Confirmed" result. Pesticide compounds that do not confirm on 2nd analysis are reported "ND" as the "Confirmed" result.

MDL=Method Detection Limit
RL=Reporting Limit
ND=Not Detected above MDL
J=Estimated, detected above MDL but below RL
**=Estimated, dual column results %diff. > 40%*

W.W.L.
W.A.T.E.R. WORKS LABORATORY INC.
NJDEP# 07673
360 GLENWOOD AVENUE
EAST ORANGE, NJ 07017

PCB Analysis Report (EPA Method 8082A)

Sample #	*: 243601*	*Analysis Date*	*: 02/26/14 at 06:29 PM*
Client	*: LEWIS CONSULTING*	*Instrument*	*: GCB*
Client ID	*: WC-3*	*Column*	*: RTX-5, 30m, 0.53mm I.D., .0.5um film*
Project	*: 85-89 WEST ALPINE ST.*	*Matrix*	*: SOIL*
Date Sampled	*: 02/19/14*	*Dilution Factor*	*: 1*
Date Received	*: 02/19/14*	*Sample Volume*	*: 15.10 g 87.06% solid*
Date Extracted	*: 02/21/14*	*Analyst*	*: AAA*
Data File	*: gcb_022614_016.rst*		

243601 Report

Compound	CAS#	MDL (ppb)	RL (ppb)	Result (ppb)
Aroclor 1016	12674-11-2	37.65	190.17	ND
Aroclor 1221	11104-28-2	86.72	190.17	ND
Aroclor 1232	11141-16-5	29.67	190.17	ND
Aroclor 1242	53469-21-9	43.36	190.17	ND
Aroclor 1248	12672-29-6	26.24	190.17	ND
Aroclor 1254	11097-69-1	27.38	190.17	ND
Aroclor 1260	11096-82-5	58.19	190.17	ND

Analyzed by EPA method 8082A
All results reported as ug/kg

All detected PCB Aroclor compunds require 2nd confirmation analysis. Per EPA method 8082A the LESSER of these results shall be considered the final result.

MDL=Method Detection Limit
RL=Reporting Limit
ND=Not Detected above MDL
J=Estimated result, detected above MDL but below RL

W.W.L.
W.A.T.E.R. WORKS LABORATORY INC.
NJDEP# 07673
360 GLENWOOD AVENUE
EAST ORANGE, NJ 07017

Pesticide Analysis Report (EPA Method 8081B)

Sample # : *243601*
Client : *LEWIS CONSULTING*
Client ID : *WC-3*
Project : *85-89 WEST ALPINE ST.*
Date Sampled : *02/19/14*
Date Received : *02/19/14*
Date Extracted : *02/21/14*
Matrix : *SOIL*
Sample Volume : *15.10g 87.06% solid*
Analyst : *AAA*

Column :RTX-35, 30m, 0.53mm I.D., 0.5um film
Instrument : GCD
Date Analyzed : 03/03/14 07:33 PM
Dilution Factor : 1
Rtx-35 Sequence : C:\Totalchrom\Sequences\030314-GCD-PEST.seq
Rtx-35 Method : c:\totalchrom\methods\030314-gcd-pest-rtx35.mth
Rtx-35 data file : c:\totalchrom\data\gcd_030314_014.rst

Column :RTX-5, 30m, 0.53mm I.D., 0.5um film
Instrument :GCB
Date Analyzed :03/03/14 11:57 PM
Dilution Factor :1
Rtx-5 Sequence :C:\Totalchrom\Sequences\030314-GCB-PEST.seq
Rtx-5 Method :c:\totalchrom\methods\030314-gcb-pest-rtx5.mth
Rtx-5 data file :c:\totalchrom\data\gcb_030314_014.rst

Column	Compound	CAS #	MDL	RL	Result	
RTX-5	a-BHC	319-84-6	0.33	1.90	ND	
RTX-35	a-BHC	319-84-6	0.33	1.90	0.42	J
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	b-BHC	319-85-7	0.35	1.90	ND	
RTX-35	b-BHC	319-85-7	0.45	1.90	ND	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	y-BHC	58-89-9	0.79	1.90	ND	
RTX-35	y-BHC	58-89-9	0.38	1.90	3.49	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	d-BHC	319-86-8	0.33	1.90	ND	
RTX-35	d-BHC	319-86-8	0.35	1.90	0.76	J
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Heptachlor	76-44-8	0.35	1.90	ND	
RTX-35	Heptachlor	76-44-8	0.33	1.90	ND	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Aldrin	309-00-2	0.34	1.90	20.63	
RTX-35	Aldrin	309-00-2	0.34	1.90	6.69	
Confirmed					**6.69**	*
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Heptachlor Epoxide	1024-57-3	0.35	1.90	0.63	J
RTX-35	Heptachlor Epoxide	1024-57-3	0.33	1.90	2.33	
Confirmed					**0.63**	J *
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	y-Chlordane	5103-74-2	0.35	1.90	2.85	
RTX-35	y-Chlordane	5103-74-2	0.27	1.90	0.39	J
Confirmed					**0.39**	J *

Analyzed by EPA method 8081B
All results reported as ug/kg

Note: All detected pesticide compounds require 2nd confirmation analysis. W.W.L. reports the LESSER of these results as the "Confirmed" result. Pesticide compounds that do not confirm on 2nd analysis are reported "ND" as the "Confirmed" result.

MDL=Method Detection Limit
RL=Reporting Limit
ND=Not Detected above MDL
J=Estimated, detected above MDL but below RL
**=Estimated, dual column results %diff. > 40%*

Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endosulfan I	959-98-8	0.38	1.90	ND	
RTX-35	Endosulfan I	959-98-8	0.30	1.90	10.64	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	a-Chlordane	5103-71-9	0.37	1.90	2.31	
RTX-35	a-Chlordane	5103-71-9	0.31	1.90	ND	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Dieldrin	60-57-1	0.70	3.80	21.38	
RTX-35	Dieldrin	60-57-1	0.59	3.80	16.76	
Confirmed					**16.76**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	4,4'-DDE	72-55-9	0.70	3.80	ND	
RTX-35	4,4'-DDE	72-55-9	0.63	3.80	8.89	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endrin	72-20-8	0.75	3.80	ND	
RTX-35	Endrin	72-20-8	0.62	3.80	4.19	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endosulfan II	33213-65-9	0.74	3.80	0.88	J
RTX-35	Endosulfan II	33213-65-9	0.70	3.80	1.03	J
Confirmed					**0.88**	J
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	4,4'-DDD	72-54-8	0.72	3.80	ND	
RTX-35	4,4'-DDD	72-54-8	0.70	3.80	0.78	J
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endrin Aldehyde	7421-93-4	0.82	3.80	1.16	J
RTX-35	Endrin Aldehyde	7421-93-4	1.20	3.80	2.64	J
Confirmed					**1.16**	*
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endosulfan Sulfate	1031-07-8	0.73	3.80	25.84	
RTX-35	Endosulfan Sulfate	1031-07-8	0.60	3.80	2.11	J
Confirmed					**2.11**	J *
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	4,4'-DDT	50-29-3	0.74	3.80	3.29	J
RTX-35	4,4'-DDT	50-29-3	0.52	3.80	2.37	J
Confirmed					**2.37**	J
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endrin Ketone	53494-70-5	0.78	3.80	3.26	J
RTX-35	Endrin Ketone	53494-70-5	0.66	3.80	5.92	
Confirmed					**3.26**	J *
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Methoxychlor	72-43-5	3.85	19.02	62.65	
RTX-35	Methoxychlor	72-43-5	2.64	19.02	ND	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Toxaphene	8001-35-2	2.80	91.89	ND	
RTX-35	Toxaphene	8001-35-2	2.80	91.89	ND	
Confirmed					**ND**	

Analyzed by EPA method 8081B
All results reported as ug/kg

Note: All detected pesticide compounds require 2nd confirmation analysis. W.W.L. reports the LESSER of these results as the "Confirmed" result. Pesticide compounds that do not confirm on 2nd analysis are reported "ND" as the "Confirmed" result.

MDL=Method Detection Limit
RL=Reporting Limit
ND=Not Detected above MDL
J=Estimated, detected above MDL but below RL
**=Estimated, dual column results %diff. > 40%*

W.W.L.
W.A.T.E.R. WORKS LABORATORY INC.
NJDEP# 07673
360 GLENWOOD AVENUE
EAST ORANGE, NJ 07017

PCB Analysis Report (EPA Method 8082A)

Sample #	*: 243602*	*Analysis Date*	*: 02/26/14 at 07:11 PM*
Client	*: LEWIS CONSULTING*	*Instrument*	*: GCB*
Client ID	*: WC-4*	*Column*	*: RTX-5, 30m, 0.53mm I.D., .0.5um film*
Project	*: 85-89 WEST ALPINE ST.*	*Matrix*	*: SOIL*
Date Sampled	*: 02/19/14*	*Dilution Factor*	*: 1*
Date Received	*: 02/19/14*	*Sample Volume*	*: 15.00 g 88.68% solid*
Date Extracted	*: 02/21/14*	*Analyst*	*: AAA*
Data File	*: gcb_022614_017.rst*		

243602 Report

Compound	CAS#	MDL (ppb)	RL (ppb)	Result (ppb)
Aroclor 1016	12674-11-2	37.21	187.94	ND
Aroclor 1221	11104-28-2	85.70	187.94	ND
Aroclor 1232	11141-16-5	29.32	187.94	ND
Aroclor 1242	53469-21-9	42.85	187.94	ND
Aroclor 1248	12672-29-6	25.94	187.94	ND
Aroclor 1254	11097-69-1	27.06	187.94	ND
Aroclor 1260	11096-82-5	57.51	187.94	ND

Analyzed by EPA method 8082A
All results reported as ug/kg

All detected PCB Aroclor compunds require 2nd confirmation analysis. Per EPA method 8082A the LESSER of these results shall be considered the final result.

MDL=Method Detection Limit
RL=Reporting Limit
ND=Not Detected above MDL
J=Estimated result, detected above MDL but below RL

W.W.L.
W.A.T.E.R. WORKS LABORATORY INC.
NJDEP# 07673
360 GLENWOOD AVENUE
EAST ORANGE, NJ 07017

Pesticide Analysis Report (EPA Method 8081B)

Sample #	*: 243602*
Client	*: LEWIS CONSULTING*
Client ID	*: WC-4*
Project	*: 85-89 WEST ALPINE ST.*
Date Sampled	*: 02/19/14*
Date Received	*: 02/19/14*
Date Extracted	*: 02/21/14*
Matrix	*: SOIL*
Sample Volume	*: 15.00g 88.68% solid*
Analyst	*: AAA*

Column	:RTX-35, 30m, 0.53mm I.D., 0.5um film
Instrument	: GCD
Date Analyzed	: 03/03/14 08:11 PM
Dilution Factor	: 1
Rtx-35 Sequence	: C:\Totalchrom\Sequences\030314-GCD-PEST.seq
Rtx-35 Method	: c:\totalchrom\methods\030314-gcd-pest-rtx35.mth
Rtx-35 data file	: c:\totalchrom\data\gcd_030314_015.rst
Column	:RTX-5, 30m, 0.53mm I.D., 0.5um film
Instrument	:GCB
Date Analyzed	:03/04/14 12:39 AM
Dilution Factor	:1
Rtx-5 Sequence	:C:\Totalchrom\Sequences\030314-GCB-PEST.seq
Rtx-5 Method	:c:\totalchrom\methods\030314-gcb-pest-rtx5.mth
Rtx-5 data file	:c:\totalchrom\data\gcb_030314_015.rst

Column	Compound	CAS #	MDL	RL	Result	
RTX-5	a-BHC	319-84-6	0.33	1.88	ND	
RTX-35	a-BHC	319-84-6	0.33	1.88	0.43	J
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	b-BHC	319-85-7	0.35	1.88	ND	
RTX-35	b-BHC	319-85-7	0.44	1.88	ND	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	y-BHC	58-89-9	0.78	1.88	ND	
RTX-35	y-BHC	58-89-9	0.37	1.88	3.82	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	d-BHC	319-86-8	0.33	1.88	ND	
RTX-35	d-BHC	319-86-8	0.35	1.88	1.04	J
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Heptachlor	76-44-8	0.35	1.88	2.17	
RTX-35	Heptachlor	76-44-8	0.33	1.88	ND	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Aldrin	309-00-2	0.34	1.88	31.25	
RTX-35	Aldrin	309-00-2	0.34	1.88	0.94	J
Confirmed					**0.94**	J *
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Heptachlor Epoxide	1024-57-3	0.35	1.88	2.09	
RTX-35	Heptachlor Epoxide	1024-57-3	0.33	1.88	5.54	
Confirmed					**2.09**	*
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	y-Chlordane	5103-74-2	0.35	1.88	21.98	
RTX-35	y-Chlordane	5103-74-2	0.27	1.88	13.18	
Confirmed					**13.18**	*

Analyzed by EPA method 8081B
All results reported as ug/kg

Note: All detected pesticide compounds require 2nd confirmation analysis. W.W.L. reports the LESSER of these results as the "Confirmed" result. Pesticide compounds that do not confirm on 2nd analysis are reported "ND" as the "Confirmed" result.

MDL=Method Detection Limit
RL=Reporting Limit
ND=Not Detected above MDL
J=Estimated, detected above MDL but below RL
**=Estimated, dual column results %diff. > 40%*

Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endosulfan I	959-98-8	0.37	1.88	ND	
RTX-35	Endosulfan I	959-98-8	0.29	1.88	ND	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	a-Chlordane	5103-71-9	0.36	1.88	20.40	
RTX-35	a-Chlordane	5103-71-9	0.30	1.88	22.26	
Confirmed					**20.40**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Dieldrin	60-57-1	0.69	3.76	1.41	J
RTX-35	Dieldrin	60-57-1	0.59	3.76	2.59	J
Confirmed					**1.41**	J *
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	4,4'-DDE	72-55-9	0.69	3.76	ND	
RTX-35	4,4'-DDE	72-55-9	0.62	3.76	8.36	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endrin	72-20-8	0.74	3.76	2.42	J
RTX-35	Endrin	72-20-8	0.61	3.76	ND	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endosulfan II	33213-65-9	0.73	3.76	ND	
RTX-35	Endosulfan II	33213-65-9	0.69	3.76	1.16	J
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	4,4'-DDD	72-54-8	0.71	3.76	4.24	
RTX-35	4,4'-DDD	72-54-8	0.69	3.76	3.53	J
Confirmed					**3.53**	J
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endrin Aldehyde	7421-93-4	0.81	3.76	4.96	
RTX-35	Endrin Aldehyde	7421-93-4	1.18	3.76	2.65	J
Confirmed					**2.65**	J *
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endosulfan Sulfate	1031-07-8	0.72	3.76	ND	
RTX-35	Endosulfan Sulfate	1031-07-8	0.60	3.76	2.03	J
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	4,4'-DDT	50-29-3	0.73	3.76	8.25	
RTX-35	4,4'-DDT	50-29-3	0.52	3.76	6.55	
Confirmed					**6.55**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Endrin Ketone	53494-70-5	0.77	3.76	1.45	J
RTX-35	Endrin Ketone	53494-70-5	0.65	3.76	3.72	J
Confirmed					**1.45**	J *
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Methoxychlor	72-43-5	3.80	18.79	45.43	
RTX-35	Methoxychlor	72-43-5	2.60	18.79	ND	
Confirmed					**ND**	
Column	Compound	CAS #	MDL	RL	Result	
RTX-5	Toxaphene	8001-35-2	2.75	90.21	ND	
RTX-35	Toxaphene	8001-35-2	2.75	90.21	ND	
Confirmed					**ND**	

Analyzed by EPA method 8081B
All results reported as ug/kg

Note: All detected pesticide compounds require 2nd confirmation analysis. W.W.L. reports the LESSER of these results as the "Confirmed" result. Pesticide compounds that do not confirm on 2nd analysis are reported "ND" as the "Confirmed" result.

MDL=Method Detection Limit
RL=Reporting Limit
ND=Not Detected above MDL
J=Estimated, detected above MDL but below RL
**=Estimated, dual column results %diff. > 40%*

METHOD 8260

W.A.T.E.R. WORKS LABORATORY VOA REPORT

Sample Number: 243599
Client Id: WC-1
Data File: K4993
Date Analyzed: 27 Feb 2014 8:19 p
Date Received/Extracted: 2/19/14-NA
Client Name: LEWIS CONS.

Matrix: Soil
Initial Volume: 5g
Final Volume: NA
Dilution Factor: 1
Percent Solids: 91
Project: WEST ALPINE

Column: DB-624,75m, 0.53mm ID, 3um Film

CAS #	*Compound*	*R.L.*	*Concentration (Units: ug/Kg)*
630206	1,1,1,2-Tetrachloroethane	2.7	U
71556	1,1,1-Trichloroethane	2.7	U
79345	1,1,2,2-Tetrachloroethane	2.7	U
79005	1,1,2-Trichloroethane	2.7	U
75343	1,1-Dichloroethane	2.7	U
75354	1,1-Dichloroethene	2.7	U
106934	1,2-Dibromoethane	2.7	U
95501	1,2-dichlorobenzene	2.7	U
107062	1,2-Dichloroethane	2.7	U
78875	1,2-Dichloropropane	2.7	U
541731	1,3-Dichlorobenzene	2.7	U
106467	1,4-Dichlorobenzene	2.7	U
78933	2-Butanone	2.7	U
110758	2-Chloroethylvinyl ether	2.7	U
591786	2-Hexanone	2.7	U
108101	4-Methyl-2-Pentanone	2.7	U
67641	Acetone	2.7	U
71432	Benzene	2.7	U
75274	Bromodichloromethane	2.7	U
75252	Bromoform	2.7	U
74839	Bromomethane	2.7	U
75150	Carbon Disulfide	2.7	U
56235	Carbon Tetrachloride	2.7	U
108907	Chlorobenzene	2.7	U
75003	Chloroethane	2.7	U
67663	Chloroform	2.7	U
74873	Chloromethane	2.7	U
156592	cis-1,2-Dichloroethene	2.7	U
10061015	cis-1,3-Dichloropropene	2.7	U
124481	Dibromochloromethane	2.7	U
100414	Ethylbenzene	2.7	U
108383	m,p-Xylene	2.7	U
75092	Methylene Chloride	2.7	U
95476	o-Xylene	2.7	U
100425	Styrene	2.7	U
127184	Tetrachloroethene	2.7	U
08883	Toluene	2.7	U
156605	trans-1,2-Dichloroethene	2.7	U
10061026	trans-1,3-Dichloropropene	2.7	U
79016	Trichloroethene	2.7	U
75694	Trichlorofluoromethane	2.7	U
108054	Vinyl acetate	2.7	U

Total Target Concentration 0

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample. R.L.- Reporting Limit
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

METHOD 8260

W.A.T.E.R. WORKS LABORATORY VOA REPORT

Sample Number: 243599
Client Id: WC-1
Data File: K4993
Date Analyzed: 27 Feb 2014 8:19 p
Date Received/Extracted: 2/19/14-NA
Client Name: LEWIS CONS.

Matrix: Soil
Initial Volume: 5g
Final Volume: NA
Dilution Factor: 1
Percent Solids: 91
Project: WEST ALPINE

Column: DB-624,75m, 0.53mm ID, 3um Film

CAS #	*Compound*	*R.L.*	*Concentration (Units: ug/Kg)*
75014	Vinyl Chloride	2.7	U

Total Target Concentration 0

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample. R.L.- Reporting Limit
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WC-1

Lab Name: W.A.T.E.R. WORKS LAB INC. Contract:

Lab Code: 07673 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 243599

Sample wt/vol: 10.0 (g/ml) G Lab File ID: K4993.D

Level: (low/med) LOW Date Received: 2/19/2014

% Moisture: not dec. 9 Date Analyzed: 2/27/2014

GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	17.80	31	J

METHOD 8260

W.A.T.E.R. WORKS LABORATORY VOA REPORT

Sample Number: 243600
Client Id: WC-2
Data File: K4994
Date Analyzed: 27 Feb 2014 8:44 p
Date Received/Extracted: 2/19/14-NA
Client Name: LEWIS CONS.

Matrix: Soil
Initial Volume: 5g
Final Volume: NA
Dilution Factor: 1
Percent Solids: 83
Project: WEST ALPINE

Column: DB-624,75m, 0.53mm ID, 3um Film

CAS #	*Compound*	*R.L.*	*Concentration (Units: ug/Kg)*
630206	1,1,1,2-Tetrachloroethane	3.0	U
71556	1,1,1-Trichloroethane	3.0	U
79345	1,1,2,2-Tetrachloroethane	3.0	U
79005	1,1,2-Trichloroethane	3.0	U
75343	1,1-Dichloroethane	3.0	U
75354	1,1-Dichloroethene	3.0	U
106934	1,2-Dibromoethane	3.0	U
95501	1,2-dichlorobenzene	3.0	U
107062	1,2-Dichloroethane	3.0	U
78875	1,2-Dichloropropane	3.0	U
541731	1,3-Dichlorobenzene	3.0	U
106467	1,4-Dichlorobenzene	3.0	U
78933	2-Butanone	3.0	U
110758	2-Chloroethylvinyl ether	3.0	U
591786	2-Hexanone	3.0	U
108101	4-Methyl-2-Pentanone	3.0	U
67641	Acetone	3.0	U
71432	Benzene	3.0	U
75274	Bromodichloromethane	3.0	U
75252	Bromoform	3.0	U
74839	Bromomethane	3.0	U
75150	Carbon Disulfide	3.0	U
56235	Carbon Tetrachloride	3.0	U
108907	Chlorobenzene	3.0	U
75003	Chloroethane	3.0	U
67663	Chloroform	3.0	U
74873	Chloromethane	3.0	U
156592	cis-1,2-Dichloroethene	3.0	U
10061015	cis-1,3-Dichloropropene	3.0	U
124481	Dibromochloromethane	3.0	U
100414	Ethylbenzene	3.0	U
108383	m,p-Xylene	3.0	U
75092	Methylene Chloride	3.0	U
95476	o-Xylene	3.0	U
100425	Styrene	3.0	U
127184	Tetrachloroethene	3.0	U
08883	Toluene	3.0	U
156605	trans-1,2-Dichloroethene	3.0	U
10061026	trans-1,3-Dichloropropene	3.0	U
79016	Trichloroethene	3.0	U
75694	Trichlorofluoromethane	3.0	U
108054	Vinyl acetate	3.0	U

Total Target Concentration 0

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample. R.L.- Reporting Limit
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

METHOD 8260

W.A.T.E.R. WORKS LABORATORY VOA REPORT

Sample Number: 243600
Client Id: WC-2
Data File: K4994
Date Analyzed: 27 Feb 2014 8:44 p
Date Received/Extracted: 2/19/14-NA
Client Name: LEWIS CONS.

Matrix: Soil
Initial Volume: 5g
Final Volume: NA
Dilution Factor: 1
Percent Solids: 83
Project: WEST ALPINE

Column: DB-624,75m, 0.53mm ID, 3um Film

CAS #	*Compound*	*R.L.*	*Concentration (Units: ug/Kg)*
75014	Vinyl Chloride	3.0	U

Total Target Concentration 0

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample. R.L.- Reporting Limit
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WC-2

Lab Name: W.A.T.E.R. WORKS LAB INC. Contract:

Lab Code: 07673 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 243600

Sample wt/vol: 10.0 (g/ml) G Lab File ID: K4994.D

Level: (low/med) LOW Date Received: 2/19/2014

% Moisture: not dec. 17 Date Analyzed: 2/27/2014

GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METHOD 8260

W.A.T.E.R. WORKS LABORATORY VOA REPORT

Sample Number: 243601
Client Id: WC-3
Data File: K4995
Date Analyzed: 27 Feb 2014 9:09 p
Date Received/Extracted: 2/19/14-NA
Client Name: LEWIS CONS.

Matrix: Soil
Initial Volume: 5g
Final Volume: NA
Dilution Factor: 1
Percent Solids: 87
Project: WEST ALPINE

Column: DB-624,75m, 0.53mm ID, 3um Film

CAS #	*Compound*	*R.L.*	*Concentration (Units: ug/Kg)*
630206	1,1,1,2-Tetrachloroethane	2.9	U
71556	1,1,1-Trichloroethane	2.9	U
79345	1,1,2,2-Tetrachloroethane	2.9	U
79005	1,1,2-Trichloroethane	2.9	U
75343	1,1-Dichloroethane	2.9	U
75354	1,1-Dichloroethene	2.9	U
106934	1,2-Dibromoethane	2.9	U
95501	1,2-dichlorobenzene	2.9	U
107062	1,2-Dichloroethane	2.9	U
78875	1,2-Dichloropropane	2.9	U
541731	1,3-Dichlorobenzene	2.9	U
106467	1,4-Dichlorobenzene	2.9	U
78933	2-Butanone	2.9	U
110758	2-Chloroethylvinyl ether	2.9	U
591786	2-Hexanone	2.9	U
108101	4-Methyl-2-Pentanone	2.9	U
67641	Acetone	2.9	U
71432	Benzene	2.9	U
75274	Bromodichloromethane	2.9	U
75252	Bromoform	2.9	U
74839	Bromomethane	2.9	U
75150	Carbon Disulfide	2.9	U
56235	Carbon Tetrachloride	2.9	U
108907	Chlorobenzene	2.9	U
75003	Chloroethane	2.9	U
67663	Chloroform	2.9	U
74873	Chloromethane	2.9	U
156592	cis-1,2-Dichloroethene	2.9	U
10061015	cis-1,3-Dichloropropene	2.9	U
124481	Dibromochloromethane	2.9	U
100414	Ethylbenzene	2.9	U
108383	m,p-Xylene	2.9	U
75092	Methylene Chloride	2.9	U
95476	o-Xylene	2.9	U
100425	Styrene	2.9	U
127184	Tetrachloroethene	2.9	U
08883	Toluene	2.9	U
156605	trans-1,2-Dichloroethene	2.9	U
10061026	trans-1,3-Dichloropropene	2.9	U
79016	Trichloroethene	2.9	U
75694	Trichlorofluoromethane	2.9	U
108054	Vinyl acetate	2.9	U

Total Target Concentration 0

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample. R.L.- Reporting Limit
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

METHOD 8260

W.A.T.E.R. WORKS LABORATORY VOA REPORT

Sample Number: 243601
Client Id: WC-3
Data File: K4995
Date Analyzed: 27 Feb 2014 9:09 p
Date Received/Extracted: 2/19/14-NA
Client Name: LEWIS CONS.

Matrix: Soil
Initial Volume: 5g
Final Volume: NA
Dilution Factor: 1
Percent Solids: 87
Project: WEST ALPINE

Column: DB-624,75m, 0.53mm ID, 3um Film

CAS #	*Compound*	*R.L.*	*Concentration (Units: ug/Kg)*
75014	Vinyl Chloride	2.9	U

Total Target Concentration 0

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample. R.L.- Reporting Limit
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WC-3

Lab Name: W.A.T.E.R. WORKS LAB INC. Contract:

Lab Code: 07673 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 243601

Sample wt/vol: 10.0 (g/ml) G Lab File ID: K4995.D

Level: (low/med) LOW Date Received: 2/19/2014

% Moisture: not dec. 13 Date Analyzed: 2/27/2014

GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METHOD 8260

W.A.T.E.R. WORKS LABORATORY VOA REPORT

Sample Number: 243602
Client Id: WC-4
Data File: K4996
Date Analyzed: 27 Feb 2014 9:34 p
Date Received/Extracted: 2/19/14-NA
Client Name: LEWIS CONS.

Matrix: Soil
Initial Volume: 5g
Final Volume: NA
Dilution Factor: 1
Percent Solids: 89
Project: WEST ALPINE

Column: DB-624,75m, 0.53mm ID, 3um Film

CAS #	*Compound*	*R.L.*	*Concentration (Units: ug/Kg)*
630206	1,1,1,2-Tetrachloroethane	2.8	U
71556	1,1,1-Trichloroethane	2.8	U
79345	1,1,2,2-Tetrachloroethane	2.8	U
79005	1,1,2-Trichloroethane	2.8	U
75343	1,1-Dichloroethane	2.8	U
75354	1,1-Dichloroethene	2.8	U
106934	1,2-Dibromoethane	2.8	U
95501	1,2-dichlorobenzene	2.8	U
107062	1,2-Dichloroethane	2.8	U
78875	1,2-Dichloropropane	2.8	U
541731	1,3-Dichlorobenzene	2.8	U
106467	1,4-Dichlorobenzene	2.8	U
78933	2-Butanone	2.8	U
110758	2-Chloroethylvinyl ether	2.8	U
591786	2-Hexanone	2.8	U
108101	4-Methyl-2-Pentanone	2.8	U
67641	Acetone	2.8	U
71432	Benzene	2.8	U
75274	Bromodichloromethane	2.8	U
75252	Bromoform	2.8	U
74839	Bromomethane	2.8	U
75150	Carbon Disulfide	2.8	U
56235	Carbon Tetrachloride	2.8	U
108907	Chlorobenzene	2.8	U
75003	Chloroethane	2.8	U
67663	Chloroform	2.8	U
74873	Chloromethane	2.8	U
156592	cis-1,2-Dichloroethene	2.8	U
10061015	cis-1,3-Dichloropropene	2.8	U
124481	Dibromochloromethane	2.8	U
100414	Ethylbenzene	2.8	U
108383	m,p-Xylene	2.8	U
75092	Methylene Chloride	2.8	U
95476	o-Xylene	2.8	U
100425	Styrene	2.8	U
127184	Tetrachloroethene	2.8	U
08883	Toluene	2.8	U
156605	trans-1,2-Dichloroethene	2.8	U
10061026	trans-1,3-Dichloropropene	2.8	U
79016	Trichloroethene	2.8	U
75694	Trichlorofluoromethane	2.8	U
108054	Vinyl acetate	2.8	U

Total Target Concentration 0

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample. R.L.- Reporting Limit
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

METHOD 8260

W.A.T.E.R. WORKS LABORATORY VOA REPORT

Sample Number: 243602
Client Id: WC-4
Data File: K4996
Date Analyzed: 27 Feb 2014 9:34 p
Date Received/Extracted: 2/19/14-NA
Client Name: LEWIS CONS.

Matrix: Soil
Initial Volume: 5g
Final Volume: NA
Dilution Factor: 1
Percent Solids: 89
Project: WEST ALPINE

Column: DB-624,75m, 0.53mm ID, 3um Film

CAS #	*Compound*	*R.L.*	*Concentration (Units: ug/Kg)*
75014	Vinyl Chloride	2.8	U

Total Target Concentration 0

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample. R.L.- Reporting Limit
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WC-4

Lab Name: W.A.T.E.R. WORKS LAB INC. Contract:

Lab Code: 07673 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 243602

Sample wt/vol: 10.0 (g/ml) G Lab File ID: K4996.D

Level: (low/med) LOW Date Received: 2/19/2014

% Moisture: not dec. 11 Date Analyzed: 2/27/2014

GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METHOD 8270

W.A.T.E.R. WORKS LAB SEMIVOLATILE REPORT

Sample Number: 243599
Client Id: WC-1
Data File: B4992
Date Analyzed: 24 Feb 2014 9:46 a
Date Received/Extracted: 2/19/14-2/21/14
Client Name: LEWIS CONS.

Matrix: Soil
Initial Volume: 50g
Final Volume: 1ml
Dilution Factor: 1
Percent Solids: 91
Project: WEST ALPINE

Column: RTX-5,30m, 0.25mm ID, .25um Film

CAS #	*Compound*	*R.L.*	*Concentration (Units: ug/Kg)*
120821	1,2,4-Trichlorobenzene	110	U
95501	1,2-Dichlorobenzene	110	U
541731	1,3-Dichlorobenzene	110	U
106647	1,4-Dichlorobenzene	110	U
95954	2,4,5-Trichlorophenol	220	U
88062	2,4,6-Trichlorophenol	220	U
120832	2,4-Dichlorophenol	220	U
105679	2,4-Dimethylphenol	220	U
51285	2,4-Dinitrophenol	220	U
121142	2,4-Dinitrotoluene	110	U
606202	2,6-Dinitrotoluene	110	U
91587	2-Chloronaphthalene	110	U
108601	2-Chlorophenol	220	U
91576	2-Methylnaphthalene	110	U
5487	2-Methylphenol	220	U
88744	2-Nitroaniline	110	U
88755	2-Nitrophenol	220	U
91941	3,3'-Dichlorobenzidine	220	U
106445	3-Methylphenol	220	U
99092	3-Nitroaniline	110	U
121142	4,6-Dinitro-2-methylphenol	220	U
101553	4-Bromophenyl-phenylether	110	U
59507	4-Chloro-3-methylphenol	220	U
106478	4-Chloroaniline	110	U
7005723	4-Chlorophenyl-phenylether	110	U
106445	4-Methylphenol	220	U
100016	4-Nitroaniline	110	U
100027	4-Nitrophenol	220	U
83329	Acenaphthene	110	U
208968	Acenaphthylene	110	U
62533	Aniline	110	U
120127	Anthracene	110	U
103333	Azobenzene	110	U
92875	Benzidine	220	U
207089	Benzo(k)fluoranthene	110	240
56553	Benzo[a]Anthracene	110	460
50328	Benzo[a]Pyrene	110	550
205992	Benzo[b]Fluoranthene	110	740
191242	Benzo[g,h,i]Perylene	110	240
65850	Benzoic Acid	110	U
100516	Benzyl Alcohol	220	U
111911	Bis(2-Chloroethoxy)methane	110	U

Total Target Concentration 5000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified quantitation limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte exceeds the calibration range of the instrument. *R.L. - Reporting Limit*

METHOD 8270

W.A.T.E.R. WORKS LAB SEMIVOLATILE REPORT

Sample Number: 243599
Client Id: WC-1
Data File: B4992
Date Analyzed: 24 Feb 2014 9:46 a
Date Received/Extracted: 2/19/14-2/21/14
Client Name: LEWIS CONS.

Matrix: Soil
Initial Volume: 50g
Final Volume: 1ml
Dilution Factor: 1
Percent Solids: 91
Project: WEST ALPINE

Column: RTX-5,30m, 0.25mm ID, .25um Film

CAS #	*Compound*	*R.L.*	*Concentration (Units: ug/Kg)*
111444	bis(-2-Chloroethyl) Ether	110	U
08601	Bis(2-Chloroisopropyl)Ether	110	U
117817	Bis(2-Ethylhexyl)phthalate	110	U
85687	Butylbenzylphthalate	110	U
218019	Chrysene	110	440
53703	Dibenz[a,h]anthracene	110	U
132649	Dibenzofuran	110	U
84662	Diethylphthalate	110	U
131113	Dimethylphthalate	110	U
84742	Di-n-Butylphthalate	110	U
117840	Di-n-octylphthalate	110	U
206440	Fluoranthene	110	900
86737	Fluorene	110	U
118741	Hexachlorobenzene	110	U
87683	Hexachlorobutadiene	110	U
77474	Hexachlorocyclopentadiene	110	U
67721	Hexachloroethane	110	U
193395	Indeno[1,2,3-cd]Pyrene	110	310
78591	Isophorone	110	U
91203	Naphthalene	110	U
98953	Nitrobenzene	110	U
62759	N-Nitrosodimethylamine	110	U
621647	N-Nitroso-Di-n-propylamine	110	U
86306	N-Nitrosodiphenylamine	110	U
87865	Pentachlorophenol	220	U
85018	Phenanthrene	110	310
108952	Phenol	220	U
129000	Pyrene	110	790

Total Target Concentration 5000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified quantitation limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte exceeds the calibration range of the instrument. *R.L. - Reporting Limit*

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WC-1

Lab Name: W.A.T.E.R. WORKS LAB INC. Contract:

Lab Code: 07673 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 243599

Sample wt/vol: 50 (g/ml) ML Lab File ID: B4992.D

Level: (low/med) LOW Date Received: 2/19/2014

% Moisture: decanted: (Y/N) N Date Extracted: 2/21/2014

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/24/2014

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown PAH	18.35	110	J
2.	unknown	24.95	170	J
3.	Unknown PAH	27.31	220	J
4.	unknown	27.51	140	J
5.	Unknown PAH	27.66	400	J

METHOD 8270

W.A.T.E.R. WORKS LAB SEMIVOLATILE REPORT

Sample Number: 243600
Client Id: WC-2
Data File: B4993
Date Analyzed: 24 Feb 2014 10:31 a
Date Received/Extracted: 2/19/14-2/21/14
Client Name: LEWIS CONS.

Matrix: Soil
Initial Volume: 50g
Final Volume: 1ml
Dilution Factor: 1
Percent Solids: 83
Project: WEST ALPINE

Column: RTX-5,30m, 0.25mm ID, .25um Film

CAS #	*Compound*	*R.L.*	*Concentration (Units: ug/Kg)*
120821	1,2,4-Trichlorobenzene	120	U
95501	1,2-Dichlorobenzene	120	U
541731	1,3-Dichlorobenzene	120	U
106647	1,4-Dichlorobenzene	120	U
95954	2,4,5-Trichlorophenol	240	U
88062	2,4,6-Trichlorophenol	240	U
120832	2,4-Dichlorophenol	240	U
105679	2,4-Dimethylphenol	240	U
51285	2,4-Dinitrophenol	240	U
121142	2,4-Dinitrotoluene	120	U
606202	2,6-Dinitrotoluene	120	U
91587	2-Chloronaphthalene	120	U
108601	2-Chlorophenol	240	U
91576	2-Methylnaphthalene	120	U
5487	2-Methylphenol	240	U
88744	2-Nitroaniline	120	U
88755	2-Nitrophenol	240	U
91941	3,3'-Dichlorobenzidine	240	U
106445	3-Methylphenol	240	U
99092	3-Nitroaniline	120	U
121142	4,6-Dinitro-2-methylphenol	240	U
101553	4-Bromophenyl-phenylether	120	U
59507	4-Chloro-3-methylphenol	240	U
106478	4-Chloroaniline	120	U
7005723	4-Chlorophenyl-phenylether	120	U
106445	4-Methylphenol	240	U
100016	4-Nitroaniline	120	U
100027	4-Nitrophenol	240	U
83329	Acenaphthene	120	U
208968	Acenaphthylene	120	U
62533	Aniline	120	U
120127	Anthracene	120	U
103333	Azobenzene	120	U
92875	Benzidine	240	U
207089	Benzo(k)fluoranthene	120	U
56553	Benzo[a]Anthracene	120	U
50328	Benzo[a]Pyrene	120	130
205992	Benzo[b]Fluoranthene	120	170
191242	Benzo[g,h,i]Perylene	120	U
65850	Benzoic Acid	120	U
100516	Benzyl Alcohol	240	U
111911	Bis(2-Chloroethoxy)methane	120	U

Total Target Concentration 700

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified quantitation limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte exceeds the calibration range of the instrument. *R.L. - Reporting Limit*

METHOD 8270

W.A.T.E.R. WORKS LAB SEMIVOLATILE REPORT

Sample Number: 243600
Client Id: WC-2
Data File: B4993
Date Analyzed: 24 Feb 2014 10:31 a
Date Received/Extracted: 2/19/14-2/21/14
Client Name: LEWIS CONS.

Matrix: Soil
Initial Volume: 50g
Final Volume: 1ml
Dilution Factor: 1
Percent Solids: 83
Project: WEST ALPINE

Column: RTX-5,30m, 0.25mm ID, .25um Film

CAS #	*Compound*	*R.L.*	*Concentration (Units: ug/Kg)*
111444	bis(-2-Chloroethyl) Ether	120	U
08601	Bis(2-Chloroisopropyl)Ether	120	U
117817	Bis(2-Ethylhexyl)phthalate	120	U
85687	Butylbenzylphthalate	120	U
218019	Chrysene	120	U
53703	Dibenz[a,h]anthracene	120	U
132649	Dibenzofuran	120	U
84662	Diethylphthalate	120	U
131113	Dimethylphthalate	120	U
84742	Di-n-Butylphthalate	120	U
117840	Di-n-octylphthalate	120	U
206440	Fluoranthene	120	200
86737	Fluorene	120	U
118741	Hexachlorobenzene	120	U
87683	Hexachlorobutadiene	120	U
77474	Hexachlorocyclopentadiene	120	U
67721	Hexachloroethane	120	U
193395	Indeno[1,2,3-cd]Pyrene	120	U
78591	Isophorone	120	U
91203	Naphthalene	120	U
98953	Nitrobenzene	120	U
62759	N-Nitrosodimethylamine	120	U
621647	N-Nitroso-Di-n-propylamine	120	U
86306	N-Nitrosodiphenylamine	120	U
87865	Pentachlorophenol	240	U
85018	Phenanthrene	120	U
108952	Phenol	240	U
129000	Pyrene	120	200

Total Target Concentration 700

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified quantitation limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte exceeds the calibration range of the instrument. *R.L. - Reporting Limit*

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WC-2

Lab Name: W.A.T.E.R. WORKS LAB INC. Contract:

Lab Code: 07673 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 243600

Sample wt/vol: 50 (g/ml) G Lab File ID: B4993.D

Level: (low/med) LOW Date Received: 2/19/2014

% Moisture: 17 decanted: (Y/N) N Date Extracted: 2/21/2014

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/24/2014

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.25	120	J
2.	unknown	21.33	310	J
3.	unknown	24.14	250	J
4.	unknown	25.01	230	J
5.	Alkane: Straight-Chain	28.07	160	J
6.	Alkane: Straight-Chain	29.42	160	J
7.	unknown	30.82	120	J

METHOD 8270

W.A.T.E.R. WORKS LAB SEMIVOLATILE REPORT

Sample Number: 243601
Client Id: WC-3
Data File: B4994
Date Analyzed: 24 Feb 2014 11:14 a
Date Received/Extracted: 2/19/14-2/21/14
Client Name: LEWIS CONS.

Matrix: Soil
Initial Volume: 50g
Final Volume: 1ml
Dilution Factor: 1
Percent Solids: 87
Project: WEST ALPINE

Column: RTX-5,30m, 0.25mm ID, .25um Film

CAS #	*Compound*	*R.L.*	*Concentration (Units: ug/Kg)*
120821	1,2,4-Trichlorobenzene	110	U
95501	1,2-Dichlorobenzene	110	U
541731	1,3-Dichlorobenzene	110	U
106647	1,4-Dichlorobenzene	110	U
95954	2,4,5-Trichlorophenol	230	U
88062	2,4,6-Trichlorophenol	230	U
120832	2,4-Dichlorophenol	230	U
105679	2,4-Dimethylphenol	230	U
51285	2,4-Dinitrophenol	230	U
121142	2,4-Dinitrotoluene	110	U
606202	2,6-Dinitrotoluene	110	U
91587	2-Chloronaphthalene	110	U
108601	2-Chlorophenol	230	U
91576	2-Methylnaphthalene	110	U
5487	2-Methylphenol	230	U
88744	2-Nitroaniline	110	U
88755	2-Nitrophenol	230	U
91941	3,3'-Dichlorobenzidine	230	U
106445	3-Methylphenol	230	U
99092	3-Nitroaniline	110	U
121142	4,6-Dinitro-2-methylphenol	230	U
101553	4-Bromophenyl-phenylether	110	U
59507	4-Chloro-3-methylphenol	230	U
106478	4-Chloroaniline	110	U
7005723	4-Chlorophenyl-phenylether	110	U
106445	4-Methylphenol	230	U
100016	4-Nitroaniline	110	U
100027	4-Nitrophenol	230	U
83329	Acenaphthene	110	U
208968	Acenaphthylene	110	U
62533	Aniline	110	U
120127	Anthracene	110	U
103333	Azobenzene	110	U
92875	Benzidine	230	U
207089	Benzo(k)fluoranthene	110	170
56553	Benzo[a]Anthracene	110	320
50328	Benzo[a]Pyrene	110	350
205992	Benzo[b]Fluoranthene	110	450
191242	Benzo[g,h,i]Perylene	110	230
65850	Benzoic Acid	110	U
100516	Benzyl Alcohol	230	U
111911	Bis(2-Chloroethoxy)methane	110	U

Total Target Concentration 3600

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified quantitation limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte exceeds the calibration range of the instrument. *R.L. - Reporting Limit*

METHOD 8270

W.A.T.E.R. WORKS LAB SEMIVOLATILE REPORT

Sample Number: 243601
Client Id: WC-3
Data File: B4994
Date Analyzed: 24 Feb 2014 11:14 a
Date Received/Extracted: 2/19/14-2/21/14
Client Name: LEWIS CONS.

Matrix: Soil
Initial Volume: 50g
Final Volume: 1ml
Dilution Factor: 1
Percent Solids: 87
Project: WEST ALPINE

Column: RTX-5,30m, 0.25mm ID, .25um Film

CAS #	*Compound*	*R.L.*	*Concentration (Units: ug/Kg)*
111444	bis(-2-Chloroethyl) Ether	110	U
08601	Bis(2-Chloroisopropyl)Ether	110	U
117817	Bis(2-Ethylhexyl)phthalate	110	U
85687	Butylbenzylphthalate	110	U
218019	Chrysene	110	300
53703	Dibenz[a,h]anthracene	110	U
132649	Dibenzofuran	110	U
84662	Diethylphthalate	110	U
131113	Dimethylphthalate	110	U
84742	Di-n-Butylphthalate	110	U
117840	Di-n-octylphthalate	110	U
206440	Fluoranthene	110	650
86737	Fluorene	110	U
118741	Hexachlorobenzene	110	U
87683	Hexachlorobutadiene	110	U
77474	Hexachlorocyclopentadiene	110	U
67721	Hexachloroethane	110	U
193395	Indeno[1,2,3-cd]Pyrene	110	260
78591	Isophorone	110	U
91203	Naphthalene	110	U
98953	Nitrobenzene	110	U
62759	N-Nitrosodimethylamine	110	U
621647	N-Nitroso-Di-n-propylamine	110	U
86306	N-Nitrosodiphenylamine	110	U
87865	Pentachlorophenol	230	U
85018	Phenanthrene	110	290
108952	Phenol	230	U
129000	Pyrene	110	570

Total Target Concentration 3600

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified quantitation limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte exceeds the calibration range of the instrument. *R.L. - Reporting Limit*

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WC-3

Lab Name: W.A.T.E.R. WORKS LAB INC. Contract:

Lab Code: 07673 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 243601

Sample wt/vol: 50 (g/ml) G Lab File ID: B4994.D

Level: (low/med) LOW Date Received: 2/19/2014

% Moisture: 13 decanted: (Y/N) N Date Extracted: 2/21/2014

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/24/2014

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	14.75	200	J
2.	Unknown PAH	18.40	120	J
3.	unknown	25.00	170	J
4.	Unknown PAH	27.35	130	J
5.	unknown	27.70	270	J

METHOD 8270

W.A.T.E.R. WORKS LAB SEMIVOLATILE REPORT

Sample Number: 243602
Client Id: WC-4
Data File: B4995
Date Analyzed: 24 Feb 2014 11:57 a
Date Received/Extracted: 2/19/14-2/21/14
Client Name: LEWIS CONS.

Matrix: Soil
Initial Volume: 50g
Final Volume: 1ml
Dilution Factor: 1
Percent Solids: 89
Project: WEST ALPINE

Column: RTX-5,30m, 0.25mm ID, .25um Film

CAS #	*Compound*	*R.L.*	*Concentration (Units: ug/Kg)*
120821	1,2,4-Trichlorobenzene	110	U
95501	1,2-Dichlorobenzene	110	U
541731	1,3-Dichlorobenzene	110	U
106647	1,4-Dichlorobenzene	110	U
95954	2,4,5-Trichlorophenol	220	U
88062	2,4,6-Trichlorophenol	220	U
120832	2,4-Dichlorophenol	220	U
105679	2,4-Dimethylphenol	220	U
51285	2,4-Dinitrophenol	220	U
121142	2,4-Dinitrotoluene	110	U
606202	2,6-Dinitrotoluene	110	U
91587	2-Chloronaphthalene	110	U
108601	2-Chlorophenol	220	U
91576	2-Methylnaphthalene	110	U
5487	2-Methylphenol	220	U
88744	2-Nitroaniline	110	U
88755	2-Nitrophenol	220	U
91941	3,3'-Dichlorobenzidine	220	U
106445	3-Methylphenol	220	U
99092	3-Nitroaniline	110	U
121142	4,6-Dinitro-2-methylphenol	220	U
101553	4-Bromophenyl-phenylether	110	U
59507	4-Chloro-3-methylphenol	220	U
106478	4-Chloroaniline	110	U
7005723	4-Chlorophenyl-phenylether	110	U
106445	4-Methylphenol	220	U
100016	4-Nitroaniline	110	U
100027	4-Nitrophenol	220	U
83329	Acenaphthene	110	U
208968	Acenaphthylene	110	U
62533	Aniline	110	U
120127	Anthracene	110	150
103333	Azobenzene	110	U
92875	Benzidine	220	U
207089	Benzo(k)fluoranthene	110	320
56553	Benzo[a]Anthracene	110	640
50328	Benzo[a]Pyrene	110	710
205992	Benzo[b]Fluoranthene	110	970
191242	Benzo[g,h,i]Perylene	110	360
65850	Benzoic Acid	110	U
100516	Benzyl Alcohol	220	U
111911	Bis(2-Chloroethoxy)methane	110	U

Total Target Concentration 7000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified quantitation limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte exceeds the calibration range of the instrument. *R.L. - Reporting Limit*

METHOD 8270

W.A.T.E.R. WORKS LAB SEMIVOLATILE REPORT

Sample Number: 243602
Client Id: WC-4
Data File: B4995
Date Analyzed: 24 Feb 2014 11:57 a
Date Received/Extracted: 2/19/14-2/21/14
Client Name: LEWIS CONS.

Matrix: Soil
Initial Volume: 50g
Final Volume: 1ml
Dilution Factor: 1
Percent Solids: 89
Project: WEST ALPINE

Column: RTX-5,30m, 0.25mm ID, .25um Film

CAS #	*Compound*	*R.L.*	*Concentration (Units: ug/Kg)*
111444	bis(-2-Chloroethyl) Ether	110	U
08601	Bis(2-Chloroisopropyl)Ether	110	U
117817	Bis(2-Ethylhexyl)phthalate	110	U
85687	Butylbenzylphthalate	110	U
218019	Chrysene	110	620
53703	Dibenz[a,h]anthracene	110	U
132649	Dibenzofuran	110	U
84662	Diethylphthalate	110	U
131113	Dimethylphthalate	110	U
84742	Di-n-Butylphthalate	110	U
117840	Di-n-octylphthalate	110	U
206440	Fluoranthene	110	1200
86737	Fluorene	110	U
118741	Hexachlorobenzene	110	U
87683	Hexachlorobutadiene	110	U
77474	Hexachlorocyclopentadiene	110	U
67721	Hexachloroethane	110	U
193395	Indeno[1,2,3-cd]Pyrene	110	410
78591	Isophorone	110	U
91203	Naphthalene	110	U
98953	Nitrobenzene	110	U
62759	N-Nitrosodimethylamine	110	U
621647	N-Nitroso-Di-n-propylamine	110	U
86306	N-Nitrosodiphenylamine	110	U
87865	Pentachlorophenol	220	U
85018	Phenanthrene	110	530
108952	Phenol	220	U
129000	Pyrene	110	1100

Total Target Concentration 7000

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified quantitation limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte exceeds the calibration range of the instrument. *R.L. - Reporting Limit*

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WC-4

Lab Name: W.A.T.E.R. WORKS LAB INC. Contract:

Lab Code: 07673 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 243602

Sample wt/vol: 50 (g/ml) G Lab File ID: B4995.D

Level: (low/med) LOW Date Received: 2/19/2014

% Moisture: 11 decanted: (Y/N) N Date Extracted: 2/21/2014

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/24/2014

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 12 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown PAH	19.74	140	J
2.	unknown	20.31	110	J
3.	unknown	24.15	110	J
4.	unknown	25.02	130	J
5.	unknown	26.61	140	J
6.	Unknown PAH	27.38	270	J
7.	Unknown PAH	27.73	560	J
8.	Alkane: Straight-Chain	28.75	150	J
9.	Alkane: Straight-Chain	29.41	130	J
10.	Unknown PAH	29.82	160	J
11.	Unknown PAH	30.05	250	J
12.	unknown	30.82	110	J